ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2

LABORATORY NAME KAP TECHNOLOGIES, INC.
CITY/STATE THE WOODLANDS/TX
CASE NO. 38051 SDG NO. F2XE4
SDG NOs. TO FOLLOW
MOD. REF. NO.
CONTRACT NO. EPW05032
SOW NO. SOM1.2

630130

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

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
1. **Inventory Sheet** (Form DC-2) (Do not number)			✓	✓
2. **SDG Case Narrative**	01	02	✓	✓
3. **SDG Cover Sheet/Traffic Report**	03	06	✓	✓
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	07	10	✓	✓
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)	11	11	✓	✓
Method Blank Summary (Form IV VOA)	12	17	✓	✓
GC/MS Instrument Performance Check (Form V VOA)	18	25	✓	✓
Internal Standard Area and RT Summary (Form VIII VOA)	26	31	✓	✓
b. Sample Data	32	507	✓	✓
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)			✓	✓
Tentatively Identified Compounds (Form I VOA-TIC)			✓	✓
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)	508	660		✓
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)			✓	✓
RICs and Quantitation Reports for all Standards			✓	✓
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)			✓	✓
RICs and Quantitation Reports for all Standards			✓	✓
d. Raw/Quality Control (QC) Data			✓	✓
BFB	661	708	✓	✓
Blank Data	709	897	✓	✓

CASE NO. 38051 SDG NO. F2XE4 SDG NOS. TO FOLLOW —

— — MOD. REF. NO. —

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)	898	905	✓	✓
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)	—	—	✓	
[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]				
5. Low/Med Volatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)	—	—	—	
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1 and VOA-2) (if requested by USEPA Region)				
Method Blank Summary (Form IV VOA)				
GC/MS Instrument Performance Check (Form V VOA)				
Internal Standard Area and RT Summary (Form VIII VOA)				
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)				
Tentatively Identified Compounds (Form I VOA-TIC)				
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)				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)				
RICs and Quantitation Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)				
RICs and Quantitation Reports for all Standards				
d. Raw/Quality Control (QC) Data				
BFB				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO. 38051 SDG NO. F2XE4 SDG NOS. TO FOLLOW —

— — MOD. REF. NO. =

	PAGE NOs		CHECK	
	FROM	TO	LAB	USEPA
Blank Data	—	—	—	
Martix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)				
6. Semivolatiles Data				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II SV-1, SV-2, SV-3, SV-4)				
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)				
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)				
Tentatively Identified Compounds (Form I SV-TIC)				
Reconstructed total ion chromatograms (RICs) 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, SV-3)				
RICs and Quantitation Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-2, SV-3)				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
MS/MSD Data (if requested by USEPA Region)				
e. Raw GPC Data				

CASE NO. 38051 SDG NO. F2XE4 SDG NOS. TO FOLLOW —

— — MOD. REF. NO. —

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
f. Semivolatile SIM Data				
[Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III SV-SIM1 and SV-SIM2 (if required); Form IV SV-SIM; Form VI SV-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]				
7. Pesticides Data				
a. QC Summary				
Surrogate Recovery Summary (Form II PEST-1 and PEST-2)				
Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)				
Laboratory Control Sample Recovery (Form III PEST-3 and PEST-4)				
Method Blank Summary (Form IV PEST)				
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I PEST)				
Chromatograms (Primary Column)				
Chromatograms from second GC column confirmation				
GC Integration report or data system printout				
Manual work sheets				
For pesticides 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 Analytes (Form VI PEST-1 and PEST-2)				
Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)				
Analyte Resolution Summary (Form VI PEST-5, per column)				
Performance Evaluation Mixture (Form VI PEST-6)				
Individual Standard Mixture A (Form VI PEST-7)				
Individual Standard Mixture B (Form VI PEST-8)				
Individual Standard Mixture C (Form VI PEST-9 and PEST-10)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO. 38051 SDG NO. F2XE4 SDG NOS. TO FOLLOW —

— — MOD. REF. NO. —

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Calibration Verification Summary (Form VII PEST-3)	—	—		
Calibration Verification Summary (Form VII PEST-4)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Identification Summary for Single Component Analytes (Form X PEST-1)				
Identification Summary for Toxaphene (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 Spike/Matrix Spike Duplicate Data				
Laboratory Control Sample Data				
e. Raw GPC Data				
f. Raw Florisil Data				
8. **Aroclor Data**				
a. QC Summary				
Surrogate Recovery Summary (Form II ARO-1 and ARO-2)				
Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)				
Laboratory Control Sample Recovery(Form III ARO-3 and ARO-4)				
Method Blank Summary (Form IV ARO)				
b. Sample Data				
TCL Results - Organics Analysis Data Sheet (Form I ARO)				
Chromatograms (Primary Column)				
Chromatograms from second GC column confirmation				
GC Integration report or data system printout				
Manual work sheets				
For Aroclors by GC/MS				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO. 38051 SDG NO. F2XE4 SDG NOS. TO FOLLOW —

— — MOD. REF. NO. —

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)	—	—	—	
c. Standards Data				
Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3)				
Calibration Verification Summary (Form VII ARO-1)				
Analytical Sequence (Form VIII ARO)				
Identification Summary for Multicomponent Analytes (Form X ARO)				
Chromatograms and data system printouts A printout of Retention Times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
Laboratory Control Sample (LCS) Data				
e. Raw GPC Data (if performed)				
9. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	906	914	✓	✓
Internal sample and sample extract transfer chain-of-custody records	915	915	✓	✓
Screening records	—	—	✓	
All instrument output, including strip charts from screening activities (describe or list)				
—	—	—	✓	
10. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 1)	916	916	✓	✓
Chain of Custody Records	917	919	✓	✓
Sample Tags	921	938	✓	✓
Sample Log-in Sheet (Lab & DC-1)	920	920	✓	✓
Miscellaneous Shipping/Receiving Records (describe or list)				
CUSTODY SEALS	939	939	✓	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2 (CON'T)

CASE NO. 38051 SDG NO. F2XE4 SDG NOS. TO FOLLOW —

— — MOD. REF. NO. —

	PAGE NOs FROM	TO	CHECK LAB	USEPA
	—	—	—	
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)	↓	↓	↓	
12. **Other Records** (describe or list)				
Telephone Communication Log	—	—	—	
	↓	↓	↓	

13. **Comments**

11/29/08

Completed by: (CLP Lab) _____ (Signature) NICOLE WILLHOITE (FOE) (Printed Name/Title) 11/29/2008 (Date)

Verified by: (CLP Lab) _____ (Signature) VISHNUDAVLAPUR/PROJ.MANAGER (Printed Name/Title) 11/29/08 (Date)

Audited by: ~~(USEPA)~~ ESAT _____ (Signature) LINDA HOFFMAN / DATA REVIEWER (Printed Name/Title) 12/02/08 (Date)

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW05032	Case No. 38051	SDG No. F2XE4

SDG NARRATIVE

SAMPLE RECEIPT:

On 11/20/08 @ 10:10 A.M. – Received one cooler via FedEx with Tracking No.796131432335. The cooler temperature was 1.8^{0}C.

The coolers contained the following samples for TVOA analyses.

The custody seals and the samples were intact.

EPA SAMPLE ID	pH	EPA SAMPLE ID	pH
F2XE4	<2	F2XF8	<2
F2XE5	<2	F2XF9	<2
F2XE6	<2	F2XG0	<2
F2XE7	<2	F2XG1	<2
F2XE8	<2	F2XE9	<2
F2XF0	<2	F2XE8MS	<2
F2XF1	<2	F2XE8MSD	<2
F2XF2	<2		
F2XF3	<2		
F2XF4	<2		
F2XF6	<2		
F2XF7	<2		

No problems were encountered during sample receiving and login.

No sample tags were present upon sample receipt, however listed on COC/TR. SMO was notified and the resolution is enclosed.

TRACE VOLATILES:

The sample for Trace-VOA was analyzed on instrument A-5973 GC/MS using a 30 meters long RTX-VMS column having a 0.25mm ID and 3µm film thickness. The trap used was OV-1/Tenax/Silica Gel (Tekmar #6 CAT #14-1755-003).

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

Contract No. EPW05032	Case No. 38051	SDG No. F2XE4

SDG NARRATIVE

A 25 mL purge volume was used for Trace-water sample analyses, blanks and calibration standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The water samples were analyzed for Trace Volatiles according the SOM 1.2 statement of work.

The samples F2XE6, F2XE7, F2XF3, F2XF7, F2XF9 and F2XG0 had target compound concentrations above the calibration range and were analyzed using the dilution. Both the analyses were reported and are billable.

The formula used to calculate the Sample concentration:

$$\text{Concentration in ug/L} = \frac{(A_x)\,(I_s)\,(DF)}{(A_{is})\,(RRF)\,(V_o)}$$

Where,

A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean relative Response Factor from the initial calibration standard.
V_o = Total Volume of water purged, in ml.
DF = Dilution Factor.

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 hard copy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:

Author / Director
Signature/Title

11/25/08
Date of Signature

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

Case No: 38051
DAS No:
SDG No: F2XE4

L

Date Shipped: 11/20/2008
Carrier Name: FedEx
Airbill:
Shipped to: KAP Technologies Inc.
9391 Grogans Mill Rd.
Suite A2
The Woodlands TX 77380
(281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	John Koehnen	11/20/08 1550	[illegible]	11/20/08 1550
2	[illegible]	11/20/08 1700	FedEx	
3				
4			[illegible]	11/21/08 10:10

Sampler Signature: John Koehnen

For Lab Use Only
Lab Contract No: EPW05032
Unit Price:
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
F2XE4	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356401 (HCL), 06356402 (HCL), 06356403 (HCL) (3)	DFGW15	S: 11/19/2008	10:41	S-2066.01	1st sample
F2XE5	Ground Water/ Craig Carter	L/G	CLP VOA (7)	06356404 (HCL), 06356405 (HCL), 06356406 (HCL) (3)	DFGW14	S: 11/19/2008	12:15	.02	
F2XE6	Ground Water/ Justin Jones	L/G	CLP VOA (7)	06356407 (HCL), 06356408 (HCL), 06356409 (HCL) (3)	DFGW13	S: 11/19/2008	12:48	.03	
F2XE7	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356410 (HCL), 06356411 (HCL), 06356412 (HCL) (3)	DFGW12	S: 11/19/2008	12:48	.04	
F2XE8	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356413 (HCL), 06356414 (HCL), 06356415 (HCL), 06356416 (HCL), 06356417 (HCL) (5)	DFGW11	S: 11/19/2008	15:14	.05	
F2XF0	Ground Water/ Justin Jones	L/G	CLP VOA (7)	06356421 (HCL), 06356422 (HCL), 06356423 (HCL) (3)	DFGW09	S: 11/20/2008	11:03	.06	
F2XF1	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356424 (HCL), 06356425 (HCL), 06356426 (HCL) (3)	DFGW08	S: 11/20/2008	9:21	.07	
F2XF2	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356427 (HCL), 06356428 (HCL), 06356429 (HCL) (3)	DFGW07	S: 11/20/2008	9:45	.08	
F2XF3	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356430 (HCL), 06356431 (HCL), 06356432 (HCL) (3)	DFGW06	S: 11/20/2008	9:45	.09	
F2XF4	Ground Water/ Justin Jones	L/G	CLP VOA (7)	06356433 (HCL), 06356434 (HCL), 06356435 (HCL) (3)	DFGW05	S: 11/19/2008	14:55	.10	

Shipment for Case Complete? Y

Sample(s) to be used for laboratory QC: F2XE8

Additional Sampler Signature(s): Justin Jordan, Craig Carter, Jon Gowl, Dani Ash

Cooler Temperature Upon Receipt: 1.8°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

CLP VOA = CLP TCL Volatiles

TR Number: 6-003366723-112008-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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

Case No: 38051
DAS No:
SDG No: F2XE4 **L**

Date Shipped:	11/20/2008
Carrier Name:	FedEx
Airbill:	
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	John Kolhoen	11/20/08 1550	Steve Carr	11/20/08 1550
2	Steve Carr	11/20/08 1700	FedEx	
3				
4				11/21/08 10:10

Sampler Signature: John Kolhoen

For Lab Use Only

Lab Contract No:	EPW05037
Unit Price:	
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
F2XF6	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356439 (HCL), 06356440 (HCL), 06356441 (HCL) (3)	DFGW03	S: 11/19/2008	16:27		S-2066. 11
F2XF7	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356442 (HCL), 06356443 (HCL), 06356444 (HCL) (3)	DFGW02				.12
F2XF8	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356445 (HCL), 06356446 (HCL), 06356447 (HCL) (3)	DFGW01	S: 11/20/2008	12:42		.13
F2XF9	Ground Water/ Craig Carter	L/G	CLP VOA (7)	06356448 (HCL), 06356449 (HCL), 06356450 (HCL) (3)	DFPW01	S: 11/20/2008	14:11		.14
F2XG0	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356451 (HCL), 06356452 (HCL), 06356453 (HCL) (3)	DFPW02	S: 11/20/2008	14:11		.15
F2XG1	Ground Water/ David Anderson	L/G	CLP VOA (7)	06356454 (HCL), 06356455 (HCL), 06356456 (HCL) (3)	DFTB01	S: 11/20/2008	9:22		.16

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** F2XE8	**Additional Sampler Signature(s):** Craig Carter	**Cooler Temperature Upon Receipt:** 1.8°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

CLP VOA = CLP TCL Volatiles

TR Number: 6-003366723-112008-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY

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

Case No: 38051
DAS No:
SDG No: F2XE4 **L**

Date Shipped:	11/20/2008
Carrier Name:	FedEx
Airbill:	796131432335
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	Craig Carter	11/20/08 1550	[illegible]	11/20/08 1550
2	[illegible]	11/20/08 1705		
3				
4			[illegible]	11/21/08 10:10

Sampler Signature: Craig Carter

For Lab Use Only

Lab Contract No: EPW05032
Unit Price:
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
F2XE9	Ground Water/ Craig Carter	L/G	CLP VOA (7)	06356418 (HCL), 06356419 (HCL), 06356420 (HCL) (3)	DFGW10	S: 11/19/2008 17:19		S - 2066 · 17 [illegible]

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):** [illegible]	**Cooler Temperature Upon Receipt:** 1.8°	**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

CLP VOA = CLP TCL Volatiles

TR Number: 6-003366723-112008-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number F2XE4

Laboratory Name Kap Technologies Inc Lab Code KAP

Contract No. EPW05032 Case No. 38051

Analysis Price _____ SDG Turnaround 7 Days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) F2XE4	7) F2XF1	13) F2XF8	19)
2) F2XE5	8) F2XF2	14) F2XF9	20)
3) F2XE6	9) F2XF3	15) F2XG0	21)
4) F2XE7	10) F2XF4	16) F2XG1	22)
5) F2XE8	11) F2XF6	17) F2XE9	23)
6) F2XF0	12) F2XF7	18)	24)

First Sample in SDG	Last Sample in SDG
F2XE4	F2XE9
First Sample Receipt Date Date	**Last Sample Receipt**
11/21//08	11/21/08

Note: *There are a maximum of 20* ***field*** *samples [excluding Performance Evaluation (PE) samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 11/24/08

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK89	96	94	84	74	90	99	93
02	F2XE4	92	89	79	80	88 *	94	89
03	F2XE5	99	99	88	106	98	106	99
04	F2XE8	110	112	95	104	104	110	106
05	F2XF4	108	124	92	115	102	111	99
06	F2XF9	85	95	74	81	78	84	100
07	VBLK23	92	114	80	100	91	100	97
08	VBLK91	127	126	104	98	114	128	112
09	F2XF3	101	103	81	83	93	102	109
10	VIBLK12	122	122	95	113	108	121	105
11	F2XF1	122	125	99	110	113	125	112
12	F2XG0	96	99	81	84	89	96	111
13	VIBLK13	122	110	104	107	115	127	110
14	F2XG1	92	98	74	98	88	98	87
15	F2XE9	84	95	70	101	85	98	87
16	F2XF8	75	80	107 *	94	76 *	87	88
17	F2XF0	130	137 *	104	126	117	130 *	108
18	F2XF7	86	100	73	82	79	85	109
19	VBLK25	91	110	71	120	91	103	93
20	F2XE6DL	75	96	59	110	77 *	87	82
21	F2XE7DL	77	93	61	132	77 *	93	82
22	F2XF3DL	84	96	60	99	80	95	88
23	F2XF7DL	82	94	63	101	80	92	92
24	F2XF9DL	87	0 *	66	116	84	96	95
25	F2XG0DL	85	100	66	96	85	98	92
26	F2XF2DL	87	97	64	87	85	94	94
27	VBLK27	92	105	78	104	92	106	92
28	F2XF6	91	101	73	89	91	103	93
29	F2XF2	79	91	64	90	80	96	92
30	VIBLK31	88	103	74	122	90	111	87

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK89	93	95	89	73		91	99	0
02	F2XE4	89	89	82	87		87	93	0
03	F2XE5	99	101	93	114		95	100	0
04	F2XE8	105	104	97	108		94	102	0
05	F2XF4	98	93	90	110		87	97	0
06	F2XF9	99	96	94	117		94	97	0
07	VBLK23	92	100	80	92		82	109	0
08	VBLK91	111	106	104	90		107	115	0
09	F2XF3	107	103	103	90		105	110	0
10	VIBLK12	105	102	93	99		100	106	0
11	F2XF1	110	107	105	106		107	112	0
12	F2XG0	113	106	107	112		107	110	0
13	VIBLK13	107	105	102	95		105	109	0
14	F2XG1	87	93	79	96		88	105	0
15	F2XE9	91	93	85	108		95	110	0
16	F2XF8	90	91	91	125		92	105	2
17	F2XF0	108	104	102	108		104	109	2
18	F2XF7	110	103	111	111		105	109	0
19	VBLK25	93	100	85	119		91	107	0
20	F2XE6DL	82	86	74	114		82	95	1
21	F2XE7DL	82	86	74	138 *		89	99	2
22	F2XF3DL	89	93	82	103		95	113	0
23	F2XF7DL	94	98	86	109		97	114	0
24	F2XF9DL	94	101	87	125		98	121	1
25	F2XG0DL	92	98	84	100		95	118	0
26	F2XF2DL	97	100	87	94		94	121	0
27	VBLK27	93	101	85	109		94	114	0
28	F2XF6	94	101	87	92		99	114	0
29	F2XF2	94	98	89	108		101	115	0
30	VIBLK31	87	92	87	118		98	112	0

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F2XE6	75	91	67	79	78	88	94
02	VIBLK32	93	101	77	123	93	113	89
03	F2XF8DL	72	88	60	95	76 *	87	86
04	F2XE8MS	80	90	79	91	89	92	81
05	F2XE8MSD	79	90	77	93	90	95	84
06	F2XE7	76	85	64	78	77 *	88	90
07	VBLK31	93	109	79	90	96	111	95
08	VHBLK01	88	109	76	98	93	109	92
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	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC limits

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	F2XE6	96	101	90	100		99	110	0
02	VIBLK32	90	94	87	120		99	115	0
03	F2XF8DL	88	92	80	107		89	112	1
04	F2XE8MS	80	88	79	99		88	103	0
05	F2XE8MSD	85	91	83	101		95	108	0
06	F2XE7	90	96	85	93		98	114	1
07	VBLK31	95	102	95	94		101	125	0
08	VHBLK01	91	97	89	92		98	119	0
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	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix Spike - EPA Sample No.: F2XE8 Level: (TRACE/LOW) TRACE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5	0	3.3	66	61-145
Trichloroethene	5	0	3.6	72	71-120
Benzene	5	0	3.9	78	76-127
Toluene	5	0	4.6	92	76-125
Chlorobenzene	5	0	5.1	102	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	3.3	66	0	0-14	61-145
Trichloroethene	5	3.9	78	8	0-14	71-120
Benzene	5	4.1	82	5	0-11	76-127
Toluene	5	4.8	96	4	0-13	76-125
Chlorobenzene	5	5.3	106	4	0-13	75-130

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

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17009 Lab Sample ID: VBLK23

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/26/2008

Level: (TRACE or LOW/MED TRACE Time Analyzed: 0805

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F2XG1	S-2066.16	A17021	1504
02	F2XE9	S-2066.17	A17022	1538
03	F2XF8	S-2066.13	A17023	1612
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COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17028 Lab Sample ID: VBLK25

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/26/2008

Level: (TRACE or LOW/MED TRACE Time Analyzed: 1846

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F2XE6DL	S-2066.03DL	A17030	2010
02	F2XE7DL	S-2066.04DL	A17031	2043
03	F2XF3DL	S-2066.09DL	A17033	2151
04	F2XF7DL	S-2066.12DL	A17035	2301
05	F2XF9DL	S-2066.14DL	A17036	0011
06	F2XG0DL	S-2066.15DL	A17037	0047
07	F2XF2DL	S-2066.08DL	A17038	0122
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COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17045 Lab Sample ID: VBLK27

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/27/2008

Level: (TRACE or LOW/MED TRACE Time Analyzed: 0750

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F2XF6	S-2066.11	A17046	0832
02	F2XF2	S-2066.08	A17047	0907
03	VIBLK31	VIBLK31	A17048	0941
04	F2XE6	S-2066.03	A17049	1015
05	VIBLK32	VIBLK32	A17050	1050
06	F2XF8DL	S-2066.13DL	A17051	1126
07	F2XE8MS	S-2066.05MS	A17052	1201
08	F2XE8MSD	S-2066.05MSD	A17053	1235
09	F2XE7	S-2066.04	A17060	1639
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COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17082 Lab Sample ID: VBLK31

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/28/2008

Level: (TRACE or LOW/MED TRACE Time Analyzed: 1006

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK01	S-2066.18	A17083	1041
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COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: B19499 Lab Sample ID: VBLK89

Instrument ID: B-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/25/2008

Level: (TRACE or LOW/MED TRACE Time Analyzed: 2210

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F2XE4	S-2066.01	B19500	2242
02	F2XE5	S-2066.02	B19501	2315
03	F2XE8	S-2066.05	B19503	0020
04	F2XF4	S-2066.10	B19506	0229
05	F2XF9	S-2066.14	B19507	0404
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COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: B19517 Lab Sample ID: VBLK91

Instrument ID: B-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 11/26/2008

Level: (TRACE or LOW/MED TRACE Time Analyzed: 0935

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F2XF3	S-2066.09	B19518	1009
02	VIBLK12	VIBLK12	B19520	1116
03	F2XF1	S-2066.07	B19521	1150
04	F2XG0	S-2066.15	B19522	1224
05	VIBLK13	VIBLK13	B19525	1411
06	F2XF0	S-2066.06	B19528	1656
07	F2XF7	S-2066.12	B19529	1729
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COMMENTS: _____

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB16

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A16937 BFB Injection Date: 11/24/2008

Instrument ID: A-5973 BFB Injection Time: 0728

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	22.12	
75	30.0 - 80.0% of mass 95	51.51	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.56	
173	Less than 2.0% of mass 174	0.62	(0.71)1
174	50.0 - 120.0% of mass 95	87.16	
175	5.0 - 9.0% of mass 174	6.36	(7.30)1
176	95.0 - 101.0% of mass 174	84.44	(96.87)1
177	5.0 - 9.0% of mass 176	5.25	(6.22)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00516	VSTD00516	A16939	11/24/2008	1117
02	VSTD02016	VSTD02016	A16942	11/24/2008	1301
03	VSTD01016	VSTD01016	A16943	11/24/2008	1335
04	VSTD00116	VSTD00116	A16944	11/24/2008	1408
05	VSTD0.516	VSTD0.516	A16945	11/24/2008	1441
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SOM01.1 (5/2005)

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17006 BFB Injection Date: 11/26/2008

Instrument ID: A-5973 BFB Injection Time: 0615

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	22.64	
75	30.0 - 80.0% of mass 95	52.90	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.36	
173	Less than 2.0% of mass 174	1.00	(1.07)1
174	50.0 - 120.0% of mass 95	93.44	
175	5.0 - 9.0% of mass 174	7.22	(7.72)1
176	95.0 - 101.0% of mass 174	90.69	(97.05)1
177	5.0 - 9.0% of mass 176	5.95	(6.56)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00523	VSTD00523	A17007	11/26/2008	0627
02	VBLK23	VBLK23	A17009	11/26/2008	0805
03	F2XG1	S-2066.16	A17021	11/26/2008	1504
04	F2XE9	S-2066.17	A17022	11/26/2008	1538
05	F2XF8	S-2066.13	A17023	11/26/2008	1612
06	VSTD00524	VSTD00524	A17024	11/26/2008	1647
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SOM01.1 (5/2005)

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17025 BFB Injection Date: 11/26/2008

Instrument ID: A-5973 BFB Injection Time: 1717

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	22.36	
75	30.0 - 80.0% of mass 95	49.51	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.14	
173	Less than 2.0% of mass 174	0.61	(0.71)1
174	50.0 - 120.0% of mass 95	85.41	
175	5.0 - 9.0% of mass 174	6.48	(7.59)1
176	95.0 - 101.0% of mass 174	81.80	(95.78)1
177	5.0 - 9.0% of mass 176	4.98	(6.09)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00525	VSTD00525	A17026	11/26/2008	1735
02	VBLK25	VBLK25	A17028	11/26/2008	1846
03	F2XE6DL	S-2066.03DL	A17030	11/26/2008	2010
04	F2XE7DL	S-2066.04DL	A17031	11/26/2008	2043
05	F2XF3DL	S-2066.09DL	A17033	11/26/2008	2151
06	F2XF7DL	S-2066.12DL	A17035	11/26/2008	2301
07	F2XF9DL	S-2066.14DL	A17036	11/27/2008	0011
08	F2XG0DL	S-2066.15DL	A17037	11/27/2008	0047
09	F2XF2DL	S-2066.08DL	A17038	11/27/2008	0122
10	VSTD00526	VSTD00526	A17041	11/27/2008	0308
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SOM01.1 (5/2005)

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17043 BFB Injection Date: 11/27/2008

Instrument ID: A-5973 BFB Injection Time: 0700

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	22.81	
75	30.0 - 80.0% of mass 95	52.20	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.63	
173	Less than 2.0% of mass 174	0.42	(0.49)1
174	50.0 - 120.0% of mass 95	86.26	
175	5.0 - 9.0% of mass 174	6.52	(7.56)1
176	95.0 - 101.0% of mass 174	84.45	(97.90)1
177	5.0 - 9.0% of mass 176	5.65	(6.69)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00527	VSTD00527	A17044	11/27/2008	0713
02	VBLK27	VBLK27	A17045	11/27/2008	0750
03	F2XF6	S-2066.11	A17046	11/27/2008	0832
04	F2XF2	S-2066.08	A17047	11/27/2008	0907
05	VIBLK31	VIBLK31	A17048	11/27/2008	0941
06	F2XE6	S-2066.03	A17049	11/27/2008	1015
07	VIBLK32	VIBLK32	A17050	11/27/2008	1050
08	F2XF8DL	S-2066.13DL	A17051	11/27/2008	1126
09	F2XE8MS	S-2066.05MS	A17052	11/27/2008	1201
10	F2XE8MSD	S-2066.05MSD	A17053	11/27/2008	1235
11	F2XE7	S-2066.04	A17060	11/27/2008	1639
12	VSTD00528	VSTD00528	A17061	11/27/2008	1713
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: A17079 BFB Injection Date: 11/28/2008

Instrument ID: A-5973 BFB Injection Time: 0801

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	24.75	
75	30.0 - 80.0% of mass 95	56.76	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.77	
173	Less than 2.0% of mass 174	0.46	(0.57)1
174	50.0 - 120.0% of mass 95	81.46	
175	5.0 - 9.0% of mass 174	5.75	(7.06)1
176	95.0 - 101.0% of mass 174	78.17	(95.96)1
177	5.0 - 9.0% of mass 176	5.21	(6.67)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00531	VSTD00531	A17080	11/28/2008	0819
02	VBLK31	VBLK31	A17082	11/28/2008	1006
03	VHBLK01	S-2066.18	A17083	11/28/2008	1041
04	VSTD00532	VSTD00532	A17094	11/28/2008	1808
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB88

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: B19488 BFB Injection Date: 11/25/2008

Instrument ID: B-5973 BFB Injection Time: 1536

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	22.44	
75	30.0 - 80.0% of mass 95	50.85	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.49	
173	Less than 2.0% of mass 174	0.00	(0.00)1
174	50.0 - 120.0% of mass 95	94.40	
175	5.0 - 9.0% of mass 174	7.85	(8.31)1
176	95.0 - 101.0% of mass 174	91.22	(96.62)1
177	5.0 - 9.0% of mass 176	6.29	(6.90)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD02088	VSTD02088	B19490	11/25/2008	1624
02	VSTD01088	VSTD01088	B19491	11/25/2008	1656
03	VSTD00188	VSTD00188	B19494	11/25/2008	1835
04	VSTD0.588	VSTD0.588	B19495	11/25/2008	1907
05	VSTD00588	VSTD00588	B19496	11/25/2008	1940
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SOM01.1 (5/2005)

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: B19497 BFB Injection Date: 11/25/2008

Instrument ID: B-5973 BFB Injection Time: 2121

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	22.74	
75	30.0 - 80.0% of mass 95	52.07	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.66	
173	Less than 2.0% of mass 174	0.00	(0.00)1
174	50.0 - 120.0% of mass 95	91.45	
175	5.0 - 9.0% of mass 174	6.88	(7.53)1
176	95.0 - 101.0% of mass 174	87.50	(95.68)1
177	5.0 - 9.0% of mass 176	5.86	(6.70)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00589	VSTD00589	B19498	11/25/2008	2137
02	VBLK89	VBLK89	B19499	11/25/2008	2210
03	F2XE4	S-2066.01	B19500	11/25/2008	2242
04	F2XE5	S-2066.02	B19501	11/25/2008	2315
05	F2XE8	S-2066.05	B19503	11/26/2008	0020
06	F2XF4	S-2066.10	B19506	11/26/2008	0229
07	F2XF9	S-2066.14	B19507	11/26/2008	0404
08	VSTD00590	VSTD00590	B19513	11/26/2008	0714
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SOM01.1 (5/2005)

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.
BFB91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Lab File ID: B19514 BFB Injection Date: 11/26/2008

Instrument ID: B-5973 BFB Injection Time: 0740

GC Column: RTX-VMS ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	23.12	
75	30.0 - 80.0% of mass 95	51.80	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.78	
173	Less than 2.0% of mass 174	0.00	(0.00)1
174	50.0 - 120.0% of mass 95	86.18	
175	5.0 - 9.0% of mass 174	6.97	(8.08)1
176	95.0 - 101.0% of mass 174	84.11	(97.59)1
177	5.0 - 9.0% of mass 176	5.87	(6.98)2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00591	VSTD00591	B19515	11/26/2008	0754
02	VBLK91	VBLK91	B19517	11/26/2008	0935
03	F2XF3	S-2066.09	B19518	11/26/2008	1009
04	VIBLK12	VIBLK12	B19520	11/26/2008	1116
05	F2XF1	S-2066.07	B19521	11/26/2008	1150
06	F2XG0	S-2066.15	B19522	11/26/2008	1224
07	VIBLK13	VIBLK13	B19525	11/26/2008	1411
08	F2XF0	S-2066.06	B19528	11/26/2008	1656
09	F2XF7	S-2066.12	B19529	11/26/2008	1729
10	VSTD00592	VSTD00592	B19530	11/26/2008	1803
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8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

GC Column: RTX-VM ID: 0.25 (mm) Init. Calib. Date(s): 11/24/2008 11/24/2008

EPA Sample No. (VSTD#####): VSTD00523 Date Analyzed: 11/26/2008

Lab File ID (Standard): A17007 Time Analyzed: 0627

Instrument ID: A-5973 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1074385	13.56	1263209	8.99	494617	17.64
	UPPER LIMIT	1504139	13.89	1768492	9.32	692463	17.97
	LOWER LIMIT	644631	13.23	757925	8.66	296770	17.31
	EPA SAMPLE No.						
01	VSTD00523	1074385	13.56	1263209	8.99	494617	17.64
02	VBLK23	1201795	13.56	1330263	8.99	356892	17.64
03	F2XG1	1206283	13.57	1298337	9.00	385261	17.65
04	F2XE9	1269010	13.57	1415077	9.00	407494	17.65
05	F2XF8	1275055	13.57	1631293	9.00	405331	17.65
06	VSTD00524	1017635	13.57	1213465	9.00	478062	17.65
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IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

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

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

GC Column: RTX-VM ID: 0.25 (mm) Init. Calib. Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00525 Date Analyzed: 11/26/2008

Lab File ID (Standard): A17026 Time Analyzed: 1735

Instrument ID: A-5973 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	927923		13.57		1108988		9.00		423583		17.65	
	UPPER LIMIT	1299092		13.90		1552583		9.33		593016		17.98	
	LOWER LIMIT	556753		13.24		665392		8.67		254149		17.32	
	EPA SAMPLE No.												
01	VSTD00525	927923		13.57		1108988		9.00		423583		17.65	
02	VBLK25	1136555		13.57		1260496		9.00		367965		17.65	
03	F2XE6DL	1120619		13.57		1275938		9.00		349156		17.65	
04	F2XE7DL	973452		13.57		1093867		9.00		287210		17.65	
05	F2XF3DL	1017277		13.57		1195897		9.00		298898		17.65	
06	F2XF7DL	1121121		13.57		1378464		9.00		342531		17.65	
07	F2XF9DL	1089289		13.57		1310637		9.00		315989		17.65	
08	F2XG0DL	1131194		13.57		1326442		9.00		332148		17.65	
09	F2XF2DL	1092801		13.57		1322570		9.00		327608		17.65	
10	VSTD00526	1034830		13.57		1201685		9.00		447182		17.65	
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IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

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

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

GC Column: RTX-VM ID: 0.25 (mm) Init. Calib. Date(s): 11/24/2008 11/24/2008

EPA Sample No. (VSTD#####): VSTD00527 Date Analyzed: 11/27/2008

Lab File ID (Standard): A17044 Time Analyzed: 0713

Instrument ID: A-5973 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	957156		13.57		1206454		9.00		452618		17.65	
	UPPER LIMIT	1340018		13.90		1689035		9.33		633665		17.98	
	LOWER LIMIT	574293		13.24		723872		8.67		271570		17.32	
	EPA SAMPLE No.												
01	VSTD00527	957156		13.57		1206454		9.00		452618		17.65	
02	VBLK27	1184124		13.57		1276693		9.00		379596		17.65	
03	F2XF6	1133671		13.57		1277419		9.00		361406		17.65	
04	F2XF2	1153111		13.57		1444073		9.00		366116		17.65	
05	VIBLK31	1228198		13.57		1259402		9.00		373166		17.65	
06	F2XE6	1094801		13.57		1428030		9.00		345619		17.65	
07	VIBLK32	1210195		13.57		1244554		9.00		378282		17.65	
08	F2XF8DL	1125845		13.57		1373626		9.00		333609		17.65	
09	F2XE8MS	1251482		13.57		1380530		9.00		388898		17.65	
10	F2XE8MSD	1218974		13.57		1411385		9.00		392919		17.66	
11	F2XE7	1226270		13.58		1554105		9.01		373901		17.66	
12	VSTD00528	953493		13.58		1116569		9.01		431194		17.66	
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IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

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

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

GC Column: RTX-VM ID: 0.25 (mm) Init. Calib. Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00531 Date Analyzed: 11/28/2008

Lab File ID (Standard): A17080 Time Analyzed: 0819

Instrument ID: A-5973 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	958781		13.58		1151233		9.01		446024		17.66	
	UPPER LIMIT	1342293		13.91		1611726		9.34		624433		17.99	
	LOWER LIMIT	575268		13.25		690739		8.68		267614		17.33	
	EPA SAMPLE No.												
01	VSTD00531	958781		13.58		1151233		9.01		446024		17.66	
02	VBLK31	1102153		13.58		1180573		9.01		329448		17.66	
03	VHBLK01	1120174		13.58		1181412		9.01		338743		17.66	
04	VSTD00532	744051		13.59		874398		9.02		329102		17.68	
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IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

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

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

GC Column: RTX-VM ID: 0.25 (mm) Init. Calib. Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00589 Date Analyzed: 11/25/2008

Lab File ID (Standard): B19498 Time Analyzed: 2137

Instrument ID: B-5973 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	4003429	12.63	4827601	8.06	1857269	16.72
	UPPER LIMIT	5604800	12.96	6758641	8.39	2600176	17.05
	LOWER LIMIT	2402057	12.30	2896560	7.73	1114361	16.39
	EPA SAMPLE No.						
01	VSTD00589	4003429	12.63	4827601	8.06	1857269	16.72
02	VBLK89	3550197	12.63	3936197	8.07	1406829	16.72
03	F2XE4	3876158	12.64	4296040	8.07	1503805	16.72
04	F2XE5	3450816	12.63	3862433	8.07	1363819	16.72
05	F2XE8	3422142	12.63	3876274	8.07	1317497	16.72
06	F2XF4	3382956	12.64	3672541	8.07	1214208	16.72
07	F2XF9	3267857	12.64	4725500	8.07	1201438	16.72
08	VSTD00590	2314245*	12.64	2849510*	8.07	984281*	16.72
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IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

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

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

GC Column: RTX-VM ID: 0.25 (mm) Init. Calib. Date(s): 11/25/2008 11/25/2008

EPA Sample No. (VSTD#####): VSTD00591 Date Analyzed: 11/26/2008

Lab File ID (Standard): B19515 Time Analyzed: 0754

Instrument ID: B-5973 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	2141885		12.64		2704583		8.07		949829		16.72	
	UPPER LIMIT	2998639		12.97		3786416		8.40		1329760		17.05	
	LOWER LIMIT	1285131		12.31		1622749		7.74		569897		16.39	
	EPA SAMPLE No.												
01	VSTD00591	2141885		12.64		2704583		8.07		949829		16.72	
02	VBLK91	2410493		12.64		2634840		8.07		879931		16.72	
03	F2XF3	2573229		12.64		3412429		8.07		916468		16.72	
04	VIBLK12	2710924		12.64		2948033		8.07		980034		16.73	
05	F2XF1	2439796		12.64		2743413		8.08		878613		16.73	
06	F2XG0	2427302		12.64		3531471		8.08		870138		16.73	
07	VIBLK13	2635675		12.65		2857634		8.08		951003		16.73	
08	F2XF0	2604286		12.65		2713883		8.09		911894		16.74	
09	F2XF7	2624306		12.65		4124370	*	8.09		943769		16.74	
10	VSTD00592	1943093		12.65		2415816		8.09		826145		16.74	
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

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

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19500

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19500

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	2.3	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.57	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1.1	

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19500

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	1000	JB
02		Unknown-02	2.18	11	J
03		Unknown-03	2.26	9.7	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XB2 EC 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 14:28:07 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration

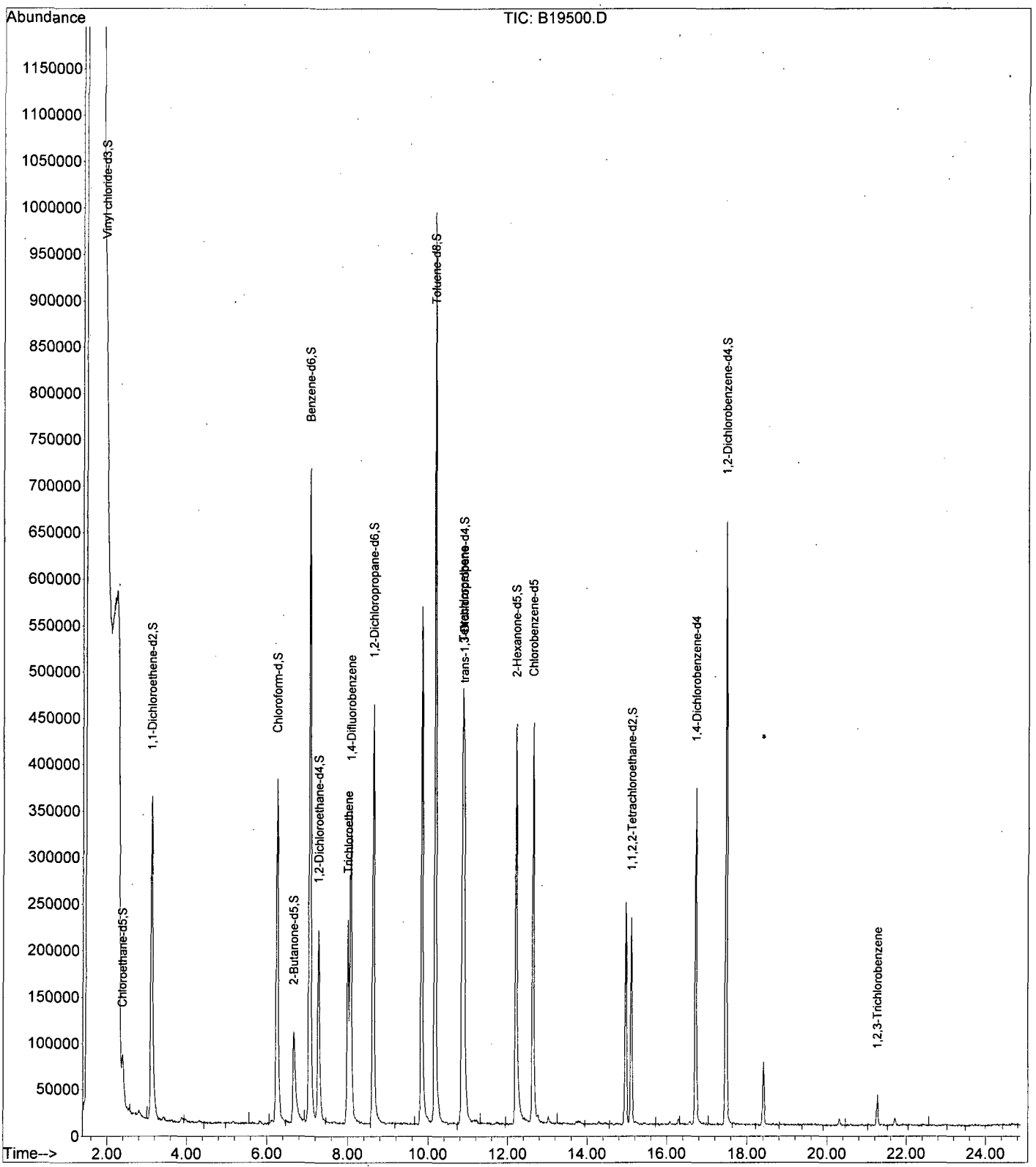
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	4296040	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	3876158	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1503805	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2815176	4.61	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 92.20%			
7) Chloroethane-d5	2.39	69	1230730	4.44	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 88.80%			
10) 1,1-Dichloroethene-d2	3.12	63	4831523	3.93	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 78.60%			
21) 2-Butanone-d5	6.66	46	2579719	40.19	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 80.38%			
24) Chloroform-d	6.25	84	5329977	4.39	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 87.80%			
26) 1,2-Dichloroethane-d4	7.28	65	2580483	4.72	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 94.40%			
32) Benzene-d6	7.06	84	11012767	4.45	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 89.00%			
36) 1,2-Dichloropropane-d6	8.63	67	3330130	4.44	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 88.80%			
41) Toluene-d8	10.17	98	9931879	4.43	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 88.60%			
43) trans-1,3-Dichloropropene-	10.90	79	2818920	4.08	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 81.60%			
47) 2-Hexanone-d5	12.20	63	2060106	43.61	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 87.22%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1793659	4.33	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 86.60%			
63) 1,2-Dichlorobenzene-d4	17.47	152	2745946	4.67	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 93.40%			
Target Compounds						Qvalue
34) Trichloroethene	8.00	95	1308205	2.26	ug/L	93
46) Tetrachloroethene	10.85	164	290271	0.57	ug/L	95
67) 1,2,3-Trichlorobenzene	21.27	180	160595	1.05	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

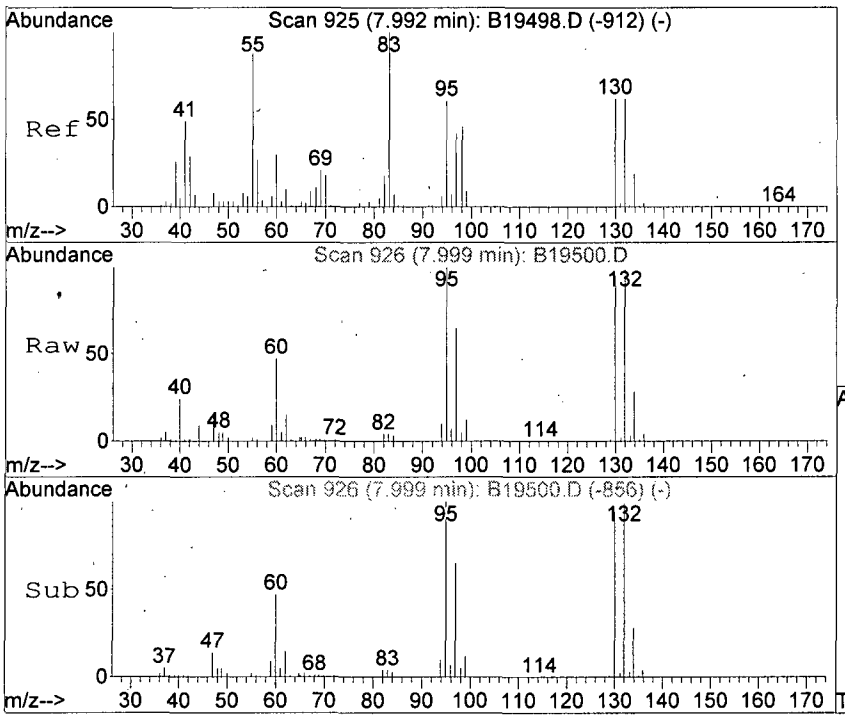
Data File: C:\MSDChem\1\DATA\B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2E4 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 14:28:07 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration



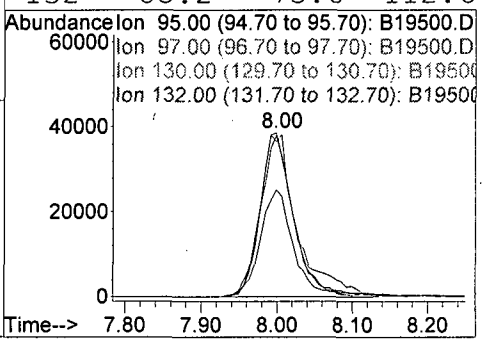
Data File : C:\MSDChem\1\DATA\B19500.D
Acq On : 11/25/08 22:42
Sample : F2XB2 EC 11/28/08
Misc : S-2066.01 25ML
MS Integration Params: LSCINT.E

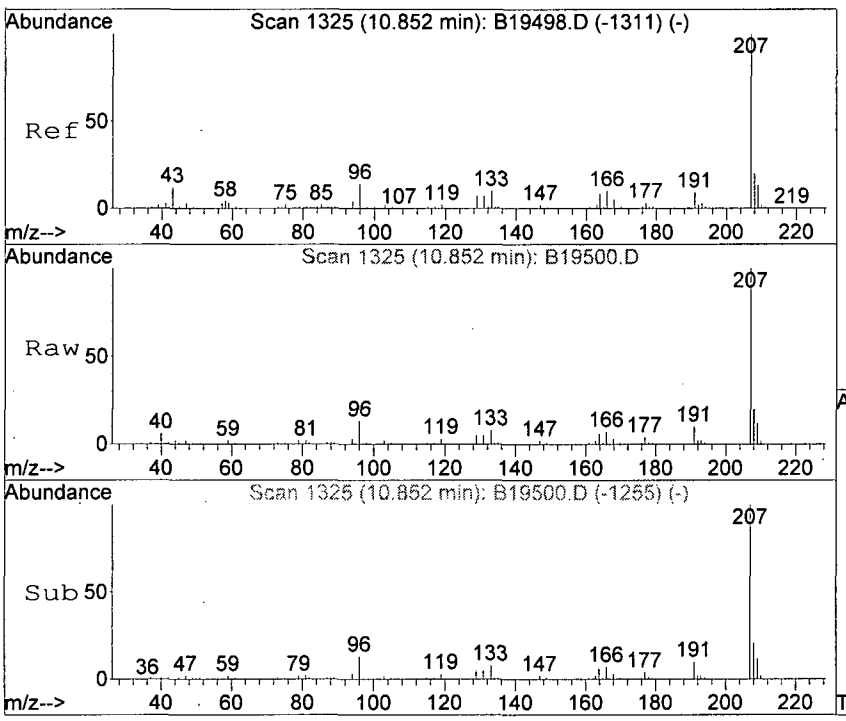
Vial: 4
Operator: SB
Inst : B-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 2.26 ug/L
RT: 8.00 min Scan# 926
Delta R.T. 0.00 min
Integration Range:
Scan=912 to 945
R.T.= 7.90 to 8.13 (min)
Tgt Ion: 95 Resp: 1308205

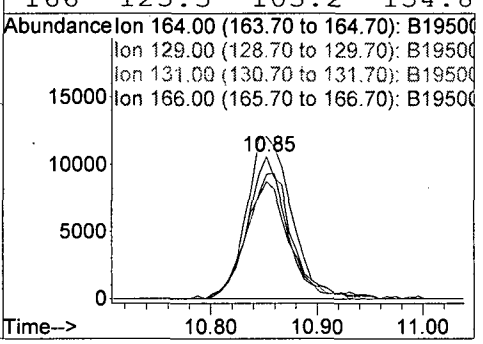
Ion	Ratio	Lower	Upper
95	100		
97	58.3	51.2	76.8
130	91.5	77.5	116.3
132	85.2	75.0	112.6





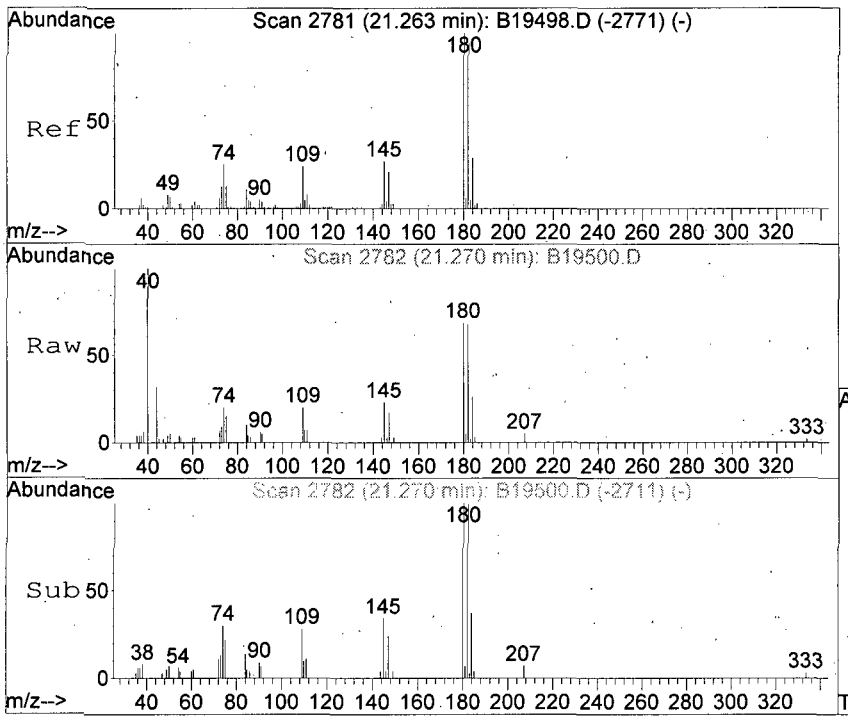
#46
Tetrachloroethene
Concen: 0.57 ug/L
RT: 10.85 min Scan# 1325
Delta R.T. 0.00 min
Integration Range:
Scan=1316 to 1340
R.T.= 10.79 to 10.96 (min)
Tgt Ion:164 Resp: 290271

Ion	Ratio	Lower	Upper
164	100		
129	82.9	71.8	107.8
131	87.8	68.6	103.0
166	123.5	103.2	154.8



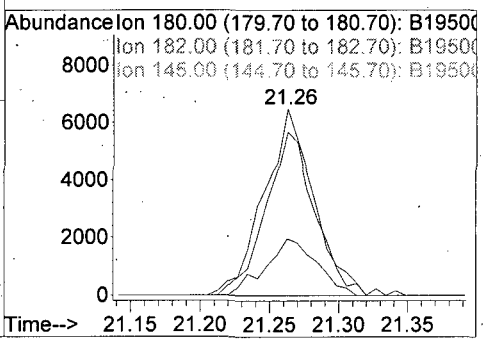
Data File : C:\MSDChem\1\DATA\B19500.D
Acq On : 11/25/08 22:42
Sample : F2X~~E2~~ E4 [illegible]
Misc : S-2066.01 25ML
MS Integration Params: LSCINT.E

Vial: 4
Operator: SB
Inst : B-5973
Multiplr: 1.00



#67
1,2,3-Trichlorobenzene
Concen: 1.05 ug/L
RT: 21.27 min Scan# 2782
Delta R.T. 0.00 min
Integration Range:
Scan=2772 to 2790
R.T.= 21.20 to 21.33 (min)
Tgt Ion:180 Resp: 160595

Ion	Ratio	Lower	Upper
180	100		
182	86.9	74.8	112.2
145	31.4	23.4	35.0



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XB2EC4 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.557	3	25	102	BV	17508812	2315122162	100.00%	86.489%
2	2.179	102	112	113	VV	550047	25869059	1.12%	0.966%
3	2.200	113	115	117	VV	555935	8610001	0.37%	0.322%
4	2.236	117	120	122	VV	560568	12405645	0.54%	0.463%
5	2.257	122	123	138	VV	561447	22510744	0.97%	0.841%
6	2.393	138	142	155	VV	65972	2711784	0.12%	0.101%
7	2.493	155	156	161	VV 5	9522	192275	0.01%	0.007%
8	2.558	161	165	166	VV 4	7813	141476	0.01%	0.005%
9	2.572	166	167	170	VV	11902	133438	0.01%	0.005%
10	2.608	170	172	174	VV 3	5523	91115	0.00%	0.003%
11	2.636	174	176	183	VV 5	3969	120513	0.01%	0.005%
12	2.701	183	185	189	VV 4	4020	100950	0.00%	0.004%
13	2.744	189	191	193	VV 2	4786	56644	0.00%	0.002%
14	2.801	193	199	223	VV 5	7198	417712	0.02%	0.016%
15	2.980	223	224	226	VV	970	9373	0.00%	0.000%
16	3.008	226	228	233	VV	10350	73145	0.00%	0.003%
17	3.123	233	244	275	VV	346247	13052932	0.56%	0.488%
18	3.351	275	276	278	VV	2537	16634	0.00%	0.001%
19	3.423	278	286	292	VV 5	4386	157642	0.01%	0.006%
20	3.473	292	293	300	VV 2	3490	56098	0.00%	0.002%
21	3.530	300	301	303	VV	1430	13941	0.00%	0.001%
22	3.559	303	305	307	VV 2	1996	22369	0.00%	0.001%
23	3.587	307	309	311	VV	2487	25887	0.00%	0.001%
24	3.652	311	318	321	VV 4	3033	79347	0.00%	0.003%
25	3.695	321	324	326	PV 2	2055	26631	0.00%	0.001%
26	3.723	326	328	331	VV 3	1937	24193	0.00%	0.001%
27	3.766	331	334	337	PV 2	1616	28432	0.00%	0.001%
28	3.845	337	345	346	VV 4	2452	54788	0.00%	0.002%
29	3.888	346	351	358	VV 3	6404	231055	0.01%	0.009%
30	3.952	358	360	363	VV	8141	97546	0.00%	0.004%
31	3.995	363	366	373	VV 3	4824	132824	0.01%	0.005%
32	4.088	373	379	382	VV 4	2907	71294	0.00%	0.003%
33	4.138	382	386	390	VV 3	2633	55685	0.00%	0.002%
34	4.181	390	392	394	VV	2524	26787	0.00%	0.001%
35	4.202	394	395	397	VV	1561	17670	0.00%	0.001%
36	4.245	397	401	403	VV	2144	33177	0.00%	0.001%
37	4.274	403	405	406	VV	1885	18863	0.00%	0.001%
38	4.331	406	413	418	VV 5	3937	127223	0.01%	0.005%
39	4.381	418	420	421	VV	2983	35257	0.00%	0.001%
40	4.402	421	423	431	VV 4	1669	30665	0.00%	0.001%
41	4.467	431	432	434	VV	2354	21954	0.00%	0.001%
42	4.495	434	436	441	VV 3	1798	31465	0.00%	0.001%
43	4.545	441	443	445	VV	1826	20209	0.00%	0.001%
44	4.581	445	448	456	VV 2	2066	47762	0.00%	0.002%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.653	456	458	465	PV 3	1302	37038	0.00%	0.001%
46	4.717	465	467	469	VV	2016	21251	0.00%	0.001%
47	4.767	469	474	479	VV 3	1965	64062	0.00%	0.002%
48	4.810	479	480	483	VV	2906	31389	0.00%	0.001%
49	4.846	483	485	487	VV 2	2142	24166	0.00%	0.001%
50	4.874	487	489	493	VV	2123	33377	0.00%	0.001%
51	4.924	493	496	497	VV 2	1341	19311	0.00%	0.001%
52	4.960	497	501	505	VV 2	2150	23663	0.00%	0.001%
53	5.003	505	507	513	VV 3	2485	53698	0.00%	0.002%
54	5.060	513	515	516	VV 2	2378	25025	0.00%	0.001%
55	5.082	516	518	520	VV	1992	23337	0.00%	0.001%
56	5.168	520	530	537	VV 5	3622	152958	0.01%	0.006%
57	5.232	537	539	548	VV 3	1938	66176	0.00%	0.002%
58	5.303	548	549	556	VV 2	1792	40999	0.00%	0.002%
59	5.368	556	558	561	VV 2	2169	26279	0.00%	0.001%
60	5.403	561	563	567	VV	2700	39092	0.00%	0.001%
61	5.446	567	569	571	VV	2585	25725	0.00%	0.001%
62	5.475	571	573	579	VV 3	2604	60247	0.00%	0.002%
63	5.525	579	580	583	VV 2	1803	27308	0.00%	0.001%
64	5.561	583	585	592	VV	10638	105835	0.00%	0.004%
65	5.654	592	598	604	VV 2	3225	96167	0.00%	0.004%
66	5.711	604	606	608	VV 2	1978	24785	0.00%	0.001%
67	5.747	608	611	614	VV	1502	24783	0.00%	0.001%
68	5.825	614	622	624	VV 2	4286	90868	0.00%	0.003%
69	5.854	624	626	629	VV 3	3620	65819	0.00%	0.002%
70	5.890	629	631	637	VV	1957	33667	0.00%	0.001%
71	5.961	637	641	646	VV 3	2373	50282	0.00%	0.002%
72	6.018	646	649	651	VV	2381	29383	0.00%	0.001%
73	6.040	651	652	654	VV	2500	21249	0.00%	0.001%
74	6.061	654	655	659	PV	8278	76055	0.00%	0.003%
75	6.140	659	666	671	VV 7	5419	216894	0.01%	0.008%
76	6.247	671	681	700	VV	367275	13412534	0.58%	0.501%
77	6.397	700	702	720	VV 6	8186	410090	0.02%	0.015%
78	6.540	720	722	725	VV 2	4212	78073	0.00%	0.003%
79	6.598	725	730	732	VV 2	3736	91872	0.00%	0.003%
80	6.662	732	739	763	VV 2	101124	5012251	0.22%	0.187%
81	6.848	763	765	768	VV 3	8787	149248	0.01%	0.006%
82	6.876	768	769	771	VV 2	7224	78711	0.00%	0.003%
83	6.898	771	772	774	VV	6872	99943	0.00%	0.004%
84	6.934	774	777	781	VV	15111	203498	0.01%	0.008%
85	6.977	781	783	784	VV	6292	75661	0.00%	0.003%
86	7.055	784	794	815	VV	704738	24222065	1.05%	0.905%
87	7.277	815	825	842	VV 2	211982	7825761	0.34%	0.292%
88	7.406	842	843	847	VV 2	8723	168876	0.01%	0.006%
89	7.441	847	848	850	VV 2	7118	82037	0.00%	0.003%
90	7.470	850	852	853	VV	8934	75687	0.00%	0.003%
91	7.491	853	855	858	VV 2	5594	93081	0.00%	0.003%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XB2 EC Blank08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.527	858	860	863	VV	4	4720	101858	0.00%	0.004%
93	7.606	863	871	875	VV	5	5452	212772	0.01%	0.008%
94	7.649	875	877	878	VV	2	5370	70349	0.00%	0.003%
95	7.677	878	881	891	VV	4	5757	235231	0.01%	0.009%
96	7.763	891	893	898	VV	2	4228	109762	0.00%	0.004%
97	7.813	898	900	903	VV	2	4694	82430	0.00%	0.003%
98	7.842	903	904	911	VV	2	3639	128119	0.01%	0.005%
99	7.906	911	913	915	VV	2	4381	61897	0.00%	0.002%
100	7.999	915	926	930	VV	2	221830	6317472	0.27%	0.236%
101	8.070	930	936	951	VV		343508	11576575	0.50%	0.432%
102	8.192	951	953	958	VV	4	10307	247028	0.01%	0.009%
103	8.242	958	960	965	VV	3	7727	175667	0.01%	0.007%
104	8.285	965	966	970	VV	2	6674	117324	0.01%	0.004%
105	8.328	970	972	977	VV	4	5521	132612	0.01%	0.005%
106	8.371	977	978	982	VV		4289	87659	0.00%	0.003%
107	8.421	982	985	992	VV	3	4178	157084	0.01%	0.006%
108	8.500	992	996	1001	VV	3	4021	142408	0.01%	0.005%
109	8.557	1001	1004	1005	VV	2	4484	65499	0.00%	0.002%
110	8.628	1005	1014	1038	VV	2	453017	15251629	0.66%	0.570%
111	8.814	1038	1040	1042	VV	2	7619	108787	0.00%	0.004%
112	8.843	1042	1044	1046	VV	3	6306	96214	0.00%	0.004%
113	8.871	1046	1048	1050	VV	2	5624	88453	0.00%	0.003%
114	8.907	1050	1053	1060	VV	4	5524	194000	0.01%	0.007%
115	8.986	1060	1064	1071	VV	4	4636	203308	0.01%	0.008%
116	9.050	1071	1073	1080	VV	2	4893	164203	0.01%	0.006%
117	9.114	1080	1082	1086	VV	2	5564	104358	0.00%	0.004%
118	9.150	1086	1087	1090	VV	2	4499	77240	0.00%	0.003%
119	9.186	1090	1092	1095	VV		5354	70669	0.00%	0.003%
120	9.229	1095	1098	1102	VV	2	4762	127956	0.01%	0.005%
121	9.265	1102	1103	1105	VV	2	4661	64133	0.00%	0.002%
122	9.293	1105	1107	1110	VV		4451	83565	0.00%	0.003%
123	9.336	1110	1113	1116	VV	3	4992	106460	0.00%	0.004%
124	9.400	1116	1122	1128	VV	7	5790	228623	0.01%	0.009%
125	9.458	1128	1130	1136	VV		5165	150498	0.01%	0.006%
126	9.565	1136	1145	1149	VV		5337	208400	0.01%	0.008%
127	9.601	1149	1150	1153	VV	2	4076	71773	0.00%	0.003%
128	9.644	1153	1156	1158	VV	2	4606	81702	0.00%	0.003%
129	9.665	1158	1159	1161	VV		10868	90442	0.00%	0.003%
130	9.708	1161	1165	1166	VV		4536	82914	0.00%	0.003%
131	9.722	1166	1167	1172	VV	2	4840	97181	0.00%	0.004%
132	9.837	1172	1183	1202	VV		565690	17224889	0.74%	0.643%
133	9.980	1202	1203	1212	VV	2	12356	396754	0.02%	0.015%
134	10.051	1212	1213	1215	VV	2	7684	105007	0.00%	0.004%
135	10.173	1215	1230	1257	VV		976333	28328133	1.22%	1.058%
136	10.387	1257	1260	1264	VV	4	7890	211766	0.01%	0.008%
137	10.430	1264	1266	1267	VV	2	6796	100145	0.00%	0.004%
138	10.473	1267	1272	1277	VV	5	7172	250903	0.01%	0.009%
139	10.523	1277	1279	1281	VV	2	5325	80238	0.00%	0.003%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE~~2~~EU 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	10.552	1281	1283	1288	VV		6169	176719	0.01%	0.007%
141	10.616	1288	1292	1294	VV	3	6237	147785	0.01%	0.006%
142	10.645	1294	1296	1306	VV	4	6703	285419	0.01%	0.011%
143	10.723	1306	1307	1309	VV		5032	48879	0.00%	0.002%
144	10.752	1309	1311	1314	PV	2	7659	102397	0.00%	0.004%
145	10.859	1314	1326	1357	VV	2	475539	25235179	1.09%	0.943%
146	11.095	1357	1359	1363	VV	3	8899	182874	0.01%	0.007%
147	11.152	1363	1367	1373	VV	5	9358	390536	0.02%	0.015%
148	11.217	1373	1376	1386	VV	5	9611	408769	0.02%	0.015%
149	11.324	1386	1391	1395	VV		14093	263207	0.01%	0.010%
150	11.360	1395	1396	1404	VV	2	6876	225646	0.01%	0.008%
151	11.431	1404	1406	1409	VV	2	6027	119641	0.01%	0.004%
152	11.467	1409	1411	1415	VV	4	5950	148775	0.01%	0.006%
153	11.503	1415	1416	1421	VV		6484	147308	0.01%	0.006%
154	11.553	1421	1423	1426	VV		6918	138072	0.01%	0.005%
155	11.588	1426	1428	1433	VV	2	6199	148199	0.01%	0.006%
156	11.667	1433	1439	1443	VV	3	5246	205151	0.01%	0.008%
157	11.724	1443	1447	1449	VV	3	7156	143574	0.01%	0.005%
158	11.753	1449	1451	1454	VV	3	7204	141722	0.01%	0.005%
159	11.789	1454	1456	1462	VV	2	6489	178356	0.01%	0.007%
160	11.846	1462	1464	1466	VV	2	5997	85706	0.00%	0.003%
161	11.896	1466	1471	1473	VV	2	6092	182073	0.01%	0.007%
162	11.917	1473	1474	1478	VV	2	5046	87696	0.00%	0.003%
163	11.960	1478	1480	1488	VV		10926	244528	0.01%	0.009%
164	12.046	1488	1492	1494	VV		5850	125210	0.01%	0.005%
165	12.096	1494	1499	1502	VV	2	6057	168280	0.01%	0.006%
166	12.203	1502	1514	1542	VV	2	434036	14869527	0.64%	0.556%
167	12.418	1542	1544	1551	VV	4	12055	388772	0.02%	0.015%
168	12.482	1551	1553	1558	VV	4	9770	271330	0.01%	0.010%
169	12.632	1558	1574	1589	VV		432748	12969153	0.56%	0.485%
170	12.775	1589	1594	1602	VV	5	14761	623308	0.03%	0.023%
171	12.868	1602	1607	1610	VV	5	7813	257153	0.01%	0.010%
172	12.904	1610	1612	1616	VV	4	7481	153391	0.01%	0.006%
173	12.947	1616	1618	1620	VV	2	6915	112674	0.00%	0.004%
174	12.976	1620	1622	1624	VV	2	6545	124067	0.01%	0.005%
175	13.033	1624	1630	1639	VV	4	13167	553517	0.02%	0.021%
176	13.104	1639	1640	1647	VV	2	7221	206428	0.01%	0.008%
177	13.169	1647	1649	1653	VV	3	6726	159200	0.01%	0.006%
178	13.212	1653	1655	1657	VV	2	6647	87131	0.00%	0.003%
179	13.254	1657	1661	1668	VV		14188	314390	0.01%	0.012%
180	13.312	1668	1669	1673	VV	2	6751	129136	0.01%	0.005%
181	13.355	1673	1675	1681	VV	4	6066	183129	0.01%	0.007%
182	13.426	1681	1685	1688	VV	2	6784	190260	0.01%	0.007%
183	13.455	1688	1689	1699	VV	3	6038	272258	0.01%	0.010%
184	13.548	1699	1702	1706	VV	2	5808	141459	0.01%	0.005%
185	13.590	1706	1708	1712	VV		5694	126955	0.01%	0.005%
186	13.733	1712	1728	1731	VV	5	8252	465049	0.02%	0.017%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE~~2~~ EC 11/25/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	13.791	1731	1736	1739	VV 3	8707	244788	0.01%	0.009%
188	13.819	1739	1740	1745	VV 5	8064	180643	0.01%	0.007%
189	13.862	1745	1746	1749	VV	6493	111225	0.00%	0.004%
190	13.905	1749	1752	1760	VV	6218	235069	0.01%	0.009%
191	13.998	1760	1765	1771	VV 2	5759	255620	0.01%	0.010%
192	14.055	1771	1773	1776	VV 2	5684	89307	0.00%	0.003%
193	14.091	1776	1778	1786	VV 2	5789	223755	0.01%	0.008%
194	14.163	1786	1788	1790	VV 2	6158	90329	0.00%	0.003%
195	14.198	1790	1793	1800	VV 2	5707	215759	0.01%	0.008%
196	14.298	1800	1807	1811	VV 4	8217	303020	0.01%	0.011%
197	14.348	1811	1814	1821	VV 3	6145	226081	0.01%	0.008%
198	14.456	1821	1829	1831	VV 2	6774	250379	0.01%	0.009%
199	14.484	1831	1833	1836	VV 3	6690	119437	0.01%	0.004%
200	14.513	1836	1837	1844	VV 2	5881	160112	0.01%	0.006%
201	14.577	1844	1846	1849	VV	7776	114334	0.00%	0.004%
202	14.613	1849	1851	1853	VV 2	5850	82454	0.00%	0.003%
203	14.634	1853	1854	1859	VV 2	6282	140553	0.01%	0.005%
204	14.727	1859	1867	1879	VV 3	5892	410495	0.02%	0.015%
205	14.835	1879	1882	1884	VV 2	5444	122913	0.01%	0.005%
206	14.863	1884	1886	1890	VV 2	4800	120399	0.01%	0.004%
207	14.970	1890	1901	1911	VV	243165	7135692	0.31%	0.267%
208	15.106	1911	1920	1932	VV	225153	6445858	0.28%	0.241%
209	15.214	1932	1935	1944	VV 6	8096	349228	0.02%	0.013%
210	15.292	1944	1946	1953	VV 2	6423	199087	0.01%	0.007%
211	15.364	1953	1956	1960	VV 2	5746	154009	0.01%	0.006%
212	15.421	1960	1964	1968	VV 2	6284	175093	0.01%	0.007%
213	15.464	1968	1970	1974	VV	6640	153291	0.01%	0.006%
214	15.500	1974	1975	1977	VV	5064	63865	0.00%	0.002%
215	15.528	1977	1979	1983	VV	5137	113389	0.00%	0.004%
216	15.578	1983	1986	1991	VV	5570	162434	0.01%	0.006%
217	15.621	1991	1992	1995	VV	5628	85385	0.00%	0.003%
218	15.650	1995	1996	1998	VV 2	5490	80879	0.00%	0.003%
219	15.685	1998	2001	2012	VV	5690	309703	0.01%	0.012%
220	15.778	2012	2014	2023	VV	5371	210542	0.01%	0.008%
221	15.900	2023	2031	2033	VV 2	5727	213349	0.01%	0.008%
222	15.950	2033	2038	2043	VV 3	5486	207186	0.01%	0.008%
223	16.000	2043	2045	2048	VV 2	5412	99814	0.00%	0.004%
224	16.057	2048	2053	2054	VV 2	5801	112357	0.00%	0.004%
225	16.086	2054	2057	2062	VV 3	8136	220276	0.01%	0.008%
226	16.143	2062	2065	2071	VV 3	5313	176426	0.01%	0.007%
227	16.193	2071	2072	2077	VV 2	5296	126233	0.01%	0.005%
228	16.243	2077	2079	2082	VV 2	5764	115874	0.01%	0.004%
229	16.293	2082	2086	2089	VV 3	10605	255893	0.01%	0.010%
230	16.322	2089	2090	2092	VV	12166	100117	0.00%	0.004%
231	16.358	2092	2095	2099	VV 2	5778	141940	0.01%	0.005%
232	16.415	2099	2103	2105	VV 2	6017	139654	0.01%	0.005%
233	16.458	2105	2109	2111	VV 2	5872	134199	0.01%	0.005%
234	16.522	2111	2118	2120	VV 3	5045	167123	0.01%	0.006%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2 ECH 11/26/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.558	2120	2123	2131	VV	6	7263	315415	0.01%	0.012%
236	16.629	2131	2133	2134	VV		5464	72272	0.00%	0.003%
237	16.722	2134	2146	2163	VV		362747	10068307	0.43%	0.376%
238	16.851	2163	2164	2167	VV	3	7905	106823	0.00%	0.004%
239	16.880	2167	2168	2173	VV	2	6657	167713	0.01%	0.006%
240	16.930	2173	2175	2180	VV	2	7042	179533	0.01%	0.007%
241	16.994	2180	2184	2188	VV	2	7276	191062	0.01%	0.007%
242	17.037	2188	2190	2197	VV		12988	231596	0.01%	0.009%
243	17.094	2197	2198	2200	VV		5892	77461	0.00%	0.003%
244	17.137	2200	2204	2208	VV	2	6134	153233	0.01%	0.006%
245	17.180	2208	2210	2212	VV		5712	91062	0.00%	0.003%
246	17.201	2212	2213	2217	VV	2	5589	110547	0.00%	0.004%
247	17.251	2217	2220	2221	VV	2	5434	83412	0.00%	0.003%
248	17.273	2221	2223	2224	VV		7008	90987	0.00%	0.003%
249	17.294	2224	2226	2232	VV	3	6063	157729	0.01%	0.006%
250	17.352	2232	2234	2236	VV		6428	92280	0.00%	0.003%
251	17.380	2236	2238	2240	VV		4908	80792	0.00%	0.003%
252	17.473	2240	2251	2274	VV		651028	17874664	0.77%	0.668%
253	17.652	2274	2276	2278	VV	2	6889	78310	0.00%	0.003%
254	17.688	2278	2281	2287	VV	3	7218	249756	0.01%	0.009%
255	17.745	2287	2289	2299	VV	3	6601	281256	0.01%	0.011%
256	17.838	2299	2302	2304	VV	2	5491	104328	0.00%	0.004%
257	17.866	2304	2306	2308	VV		5991	98498	0.00%	0.004%
258	17.909	2308	2312	2320	VV	2	5603	272809	0.01%	0.010%
259	17.988	2320	2323	2327	VV	4	5821	155438	0.01%	0.006%
260	18.052	2327	2332	2338	VV	3	5641	224626	0.01%	0.008%
261	18.124	2338	2342	2345	VV	2	5197	151416	0.01%	0.006%
262	18.159	2345	2347	2348	VV		5562	70668	0.00%	0.003%
263	18.181	2348	2350	2352	VV	2	5868	85074	0.00%	0.003%
264	18.210	2352	2354	2355	VV		5956	62316	0.00%	0.002%
265	18.231	2355	2357	2359	VV		6186	70177	0.00%	0.003%
266	18.281	2359	2364	2366	VV	2	5988	145020	0.01%	0.005%
267	18.310	2366	2368	2370	VV	2	5188	73777	0.00%	0.003%
268	18.338	2370	2372	2373	VV		4979	71322	0.00%	0.003%
269	18.410	2373	2382	2393	VV		71784	2252225	0.10%	0.084%
270	18.510	2393	2396	2398	VV	2	5714	107953	0.00%	0.004%
271	18.567	2398	2404	2405	VV	2	5608	161577	0.01%	0.006%
272	18.589	2405	2407	2410	VV	2	5593	110095	0.00%	0.004%
273	18.646	2410	2415	2422	VV	2	6478	276041	0.01%	0.010%
274	18.717	2422	2425	2427	VV	2	5588	106762	0.00%	0.004%
275	18.746	2427	2429	2434	VV	2	5998	148134	0.01%	0.006%
276	18.796	2434	2436	2443	VV		4734	169690	0.01%	0.006%
277	18.875	2443	2447	2452	VV	3	5817	189149	0.01%	0.007%
278	18.925	2452	2454	2457	VV		6285	123285	0.01%	0.005%
279	18.960	2457	2459	2461	VV	2	5629	74329	0.00%	0.003%
280	18.989	2461	2463	2464	VV		5398	73770	0.00%	0.003%
281	19.003	2464	2465	2469	VV	2	4692	84430	0.00%	0.003%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2 Eu 112508 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.039	2469	2470	2477	VV	2	5493	157949	0.01%	0.006%
283	19.103	2477	2479	2483	VV	2	5650	129309	0.01%	0.005%
284	19.161	2483	2487	2489	VV	2	5412	137490	0.01%	0.005%
285	19.196	2489	2492	2498	VV	2	5225	182871	0.01%	0.007%
286	19.253	2498	2500	2508	VV	2	4708	192073	0.01%	0.007%
287	19.325	2508	2510	2517	VV	2	5606	182893	0.01%	0.007%
288	19.425	2517	2524	2527	VV	2	6019	197115	0.01%	0.007%
289	19.475	2527	2531	2533	VV	3	5962	140164	0.01%	0.005%
290	19.518	2533	2537	2540	VV	3	5740	133639	0.01%	0.005%
291	19.582	2540	2546	2550	VV	3	5949	208728	0.01%	0.008%
292	19.618	2550	2551	2556	VV		6489	135495	0.01%	0.005%
293	19.682	2556	2560	2561	VV	2	4882	104094	0.00%	0.004%
294	19.704	2561	2563	2572	VV	2	6288	227653	0.01%	0.009%
295	19.783	2572	2574	2578	VV	2	5433	136098	0.01%	0.005%
296	19.847	2578	2583	2588	VV	2	5558	207818	0.01%	0.008%
297	19.890	2588	2589	2591	VV		5565	60002	0.00%	0.002%
298	19.918	2591	2593	2595	PV	2	4928	66803	0.00%	0.002%
299	19.947	2595	2597	2599	VV	2	5168	75187	0.00%	0.003%
300	19.983	2599	2602	2608	VV	3	6099	162279	0.01%	0.006%
301	20.069	2608	2614	2617	VV	3	5104	197600	0.01%	0.007%
302	20.104	2617	2619	2632	VV	3	4712	275266	0.01%	0.010%
303	20.226	2632	2636	2638	VV	2	5608	131714	0.01%	0.005%
304	20.262	2638	2641	2643	VV		5581	96852	0.00%	0.004%
305	20.305	2643	2647	2652	VV	4	11512	329060	0.01%	0.012%
306	20.347	2652	2653	2657	VV	2	6540	125998	0.01%	0.005%
307	20.390	2657	2659	2663	VV	2	5343	120266	0.01%	0.004%
308	20.433	2663	2665	2668	VV		4956	96787	0.00%	0.004%
309	20.469	2668	2670	2672	VV		10297	92004	0.00%	0.003%
310	20.490	2672	2673	2675	VV		5013	54311	0.00%	0.002%
311	20.512	2675	2676	2678	VV		5785	75260	0.00%	0.003%
312	20.541	2678	2680	2684	VV	3	4928	111394	0.00%	0.004%
313	20.598	2684	2688	2695	VV	2	6076	252085	0.01%	0.009%
314	20.662	2695	2697	2700	VV	2	5362	106441	0.00%	0.004%
315	20.705	2700	2703	2705	VV		4942	94663	0.00%	0.004%
316	20.741	2705	2708	2710	VV	2	5208	101236	0.00%	0.004%
317	20.776	2710	2713	2715	VV		4847	76566	0.00%	0.003%
318	20.798	2715	2716	2718	VV		5091	61076	0.00%	0.002%
319	20.848	2718	2723	2726	VV	2	5377	158393	0.01%	0.006%
320	20.877	2726	2727	2736	VV	3	5474	208451	0.01%	0.008%
321	20.962	2736	2739	2740	VV		4998	90567	0.00%	0.003%
322	20.984	2740	2742	2747	VV	2	5208	127747	0.01%	0.005%
323	21.048	2747	2751	2753	VV	2	6467	109321	0.00%	0.004%
324	21.077	2753	2755	2760	VV	2	5625	144339	0.01%	0.005%
325	21.134	2760	2763	2768	VV	3	5389	159413	0.01%	0.006%
326	21.270	2768	2782	2792	VV	4	35987	1264897	0.05%	0.047%
327	21.363	2792	2795	2812	VV	3	5970	428458	0.02%	0.016%
328	21.520	2812	2817	2819	VV	2	5310	105641	0.00%	0.004%
329	21.549	2819	2821	2822	PV	2	4824	50992	0.00%	0.002%

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE~~2~~ EGB 112808 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.599	2822	2828	2832	VV	5	5471	208817	0.01%	0.008%
331	21.649	2832	2835	2836	VV		5935	93708	0.00%	0.004%
332	21.713	2836	2844	2851	VV	3	12074	472383	0.02%	0.018%
333	21.778	2851	2853	2856	VV		5959	113023	0.00%	0.004%
334	21.863	2856	2865	2867	VV	2	5139	191774	0.01%	0.007%
335	21.921	2867	2873	2880	VV	2	5965	273278	0.01%	0.010%
336	21.985	2880	2882	2886	VV		5388	128941	0.01%	0.005%
337	22.028	2886	2888	2891	VV	2	4945	90495	0.00%	0.003%
338	22.064	2891	2893	2895	VV		6353	68118	0.00%	0.003%
339	22.106	2895	2899	2903	VV	2	5449	171922	0.01%	0.006%
340	22.149	2903	2905	2908	VV	3	4856	95859	0.00%	0.004%
341	22.185	2908	2910	2913	VV	2	4816	92021	0.00%	0.003%
342	22.221	2913	2915	2917	VV		4911	79575	0.00%	0.003%
343	22.249	2917	2919	2921	VV		4603	73113	0.00%	0.003%
344	22.285	2921	2924	2926	VV	2	5326	87941	0.00%	0.003%
345	22.314	2926	2928	2929	VV	2	4795	70636	0.00%	0.003%
346	22.335	2929	2931	2933	VV		4841	71376	0.00%	0.003%
347	22.364	2933	2935	2939	VV	2	5423	116462	0.01%	0.004%
348	22.428	2939	2944	2949	VV	3	5908	197111	0.01%	0.007%
349	22.471	2949	2950	2954	VV		5092	105982	0.00%	0.004%
350	22.514	2954	2956	2959	VV	2	4929	91432	0.00%	0.003%
351	22.550	2959	2961	2962	VV	2	4554	55510	0.00%	0.002%
352	22.571	2962	2964	2966	VV		11838	102426	0.00%	0.004%
353	22.614	2966	2970	2974	VV		5058	146907	0.01%	0.005%
354	22.664	2974	2977	2980	VV	3	5125	103795	0.00%	0.004%
355	22.714	2980	2984	2987	VV	2	5125	139472	0.01%	0.005%
356	22.771	2987	2992	2993	VV	2	4194	104392	0.00%	0.004%
357	22.814	2993	2998	3000	VV	2	4661	119302	0.01%	0.004%
358	22.850	3000	3003	3005	VV		4626	87207	0.00%	0.003%
359	22.879	3005	3007	3008	VV		4253	47437	0.00%	0.002%
360	22.922	3008	3013	3016	VV	2	4820	138888	0.01%	0.005%
361	22.957	3016	3018	3019	VV		5172	71643	0.00%	0.003%
362	22.993	3019	3023	3028	VV	2	5578	175871	0.01%	0.007%
363	23.043	3028	3030	3035	VV	2	5886	134048	0.01%	0.005%
364	23.093	3035	3037	3040	VV	2	4978	101201	0.00%	0.004%
365	23.143	3040	3044	3046	VV	2	4618	112977	0.00%	0.004%
366	23.172	3046	3048	3058	VV	4	5314	213051	0.01%	0.008%
367	23.258	3058	3060	3061	VV	2	4570	64649	0.00%	0.002%
368	23.286	3061	3064	3067	VV	2	4934	103586	0.00%	0.004%
369	23.351	3067	3073	3079	VV		5233	228911	0.01%	0.009%
370	23.436	3079	3085	3089	VV	3	5167	183087	0.01%	0.007%
371	23.479	3089	3091	3093	VV		4631	67170	0.00%	0.003%
372	23.508	3093	3095	3099	PV	2	4192	81788	0.00%	0.003%
373	23.544	3099	3100	3105	VV		4077	91572	0.00%	0.003%
374	23.594	3105	3107	3109	VV		4889	66882	0.00%	0.002%
375	23.665	3109	3117	3118	VV	3	4796	154857	0.01%	0.006%
376	23.687	3118	3120	3123	VV	2	4483	85142	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42
Sample : F2X~~E2~~ E4 Interior
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Operator: SB
Inst : B-5973

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

377	23.744	3123	3128	3132	VV	2	5184	138542	0.01%	0.005%
378	23.787	3132	3134	3137	VV		3948	75505	0.00%	0.003%
379	23.822	3137	3139	3143	VV		4131	92625	0.00%	0.003%
380	23.865	3143	3145	3146	VV	2	3500	48054	0.00%	0.002%
381	23.887	3146	3148	3150	VV	2	3340	44642	0.00%	0.002%
382	23.908	3150	3151	3153	VV		3039	37836	0.00%	0.001%
383	23.951	3153	3157	3159	VV		3428	65189	0.00%	0.002%
384	23.987	3159	3162	3169	VV		2911	93153	0.00%	0.003%
385	24.051	3169	3171	3173	VV	2	3466	43288	0.00%	0.002%
386	24.087	3173	3176	3180	VV	3	3156	69018	0.00%	0.003%
387	24.144	3180	3184	3192	VV	3	3003	125366	0.01%	0.005%
388	24.230	3192	3196	3204	VV	3	3053	125932	0.01%	0.005%
389	24.302	3204	3206	3211	VV	2	3112	70556	0.00%	0.003%
390	24.359	3211	3214	3216	VV	3	2595	38319	0.00%	0.001%
391	24.394	3216	3219	3229	VV		2272	93631	0.00%	0.003%
392	24.480	3229	3231	3233	VV	2	2657	32193	0.00%	0.001%
393	24.509	3233	3235	3238	VV	2	1710	29781	0.00%	0.001%
394	24.602	3238	3248	3251	VV	4	2308	68317	0.00%	0.003%
395	24.688	3251	3260	3268	PV	4	2929	108348	0.00%	0.004%
396	24.766	3268	3271	3274	PV	4	1437	14747	0.00%	0.001%

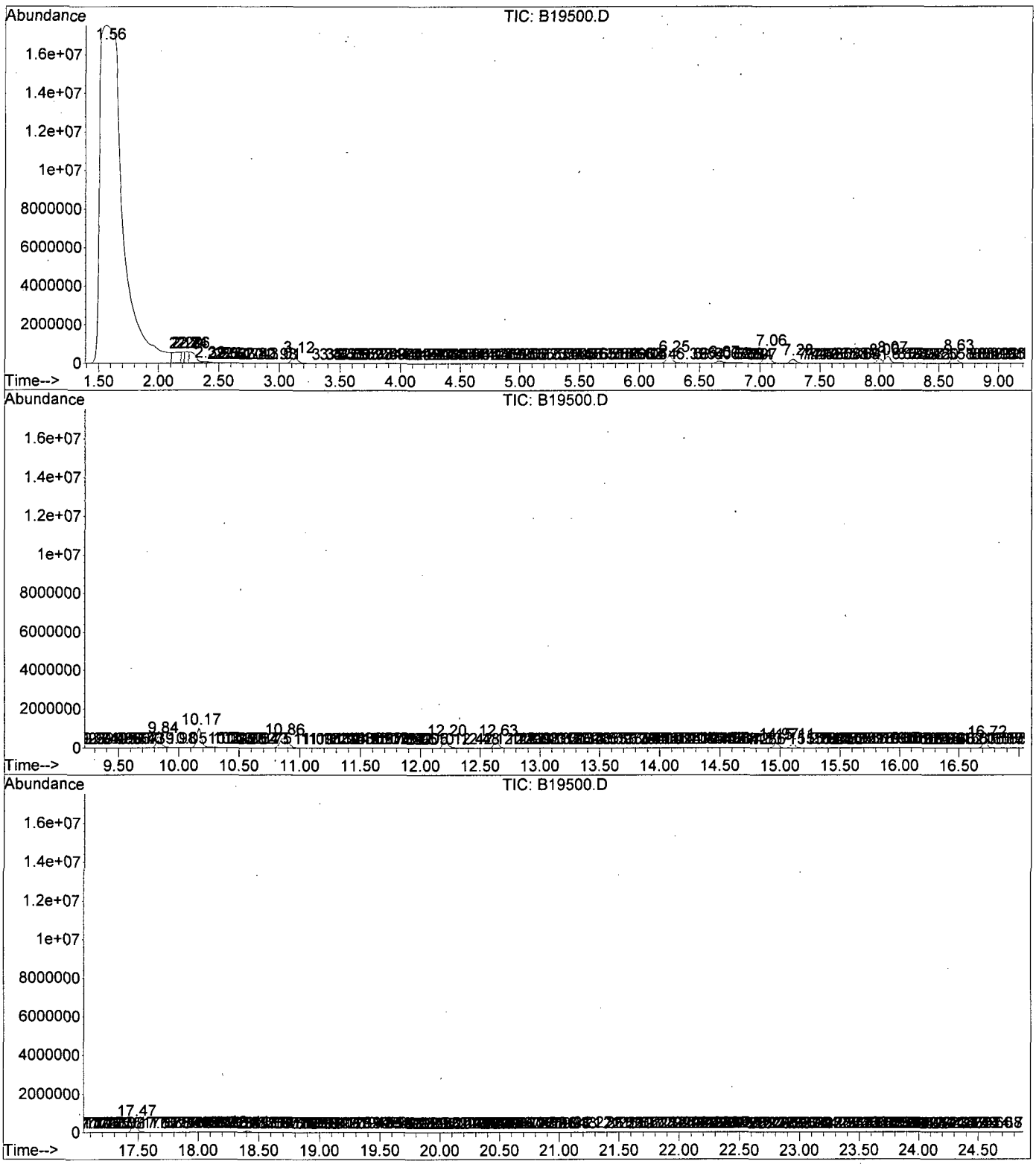
Sum of corrected areas: 2676774645

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2X~~B2~~ Eq 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2 Eu 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

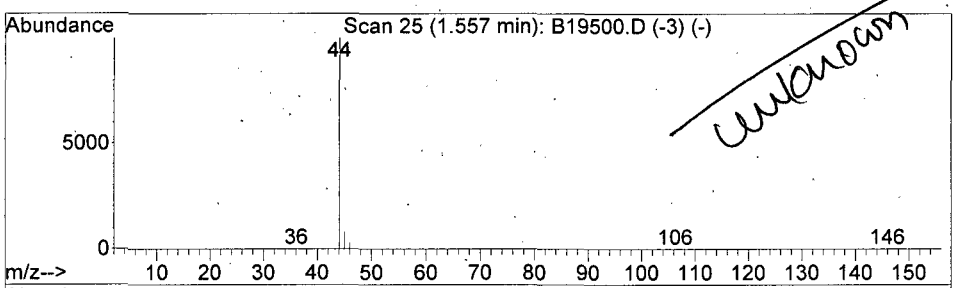
11/28/08

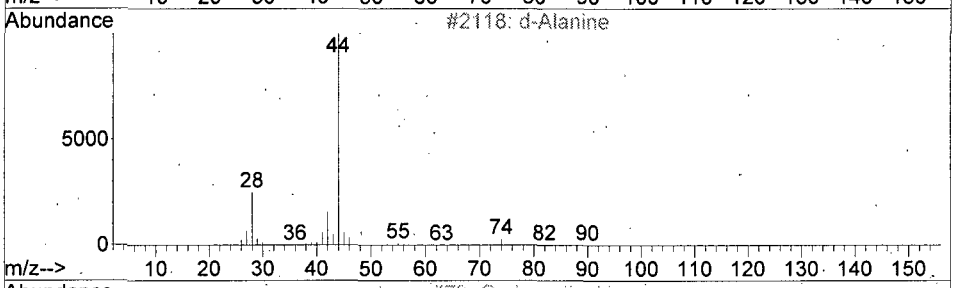
****

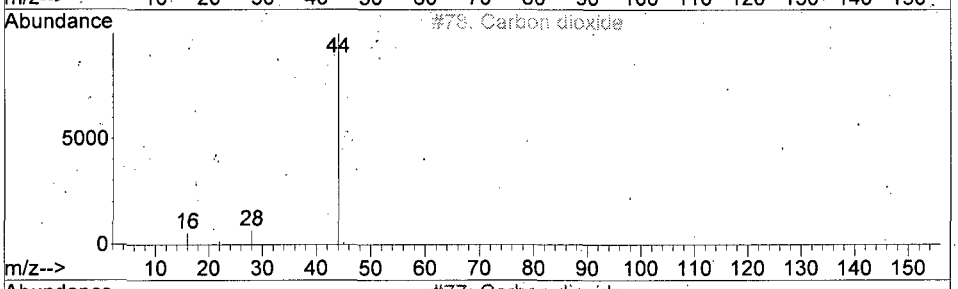
Peak Number 1 d-Alanine Concentration Rank 1

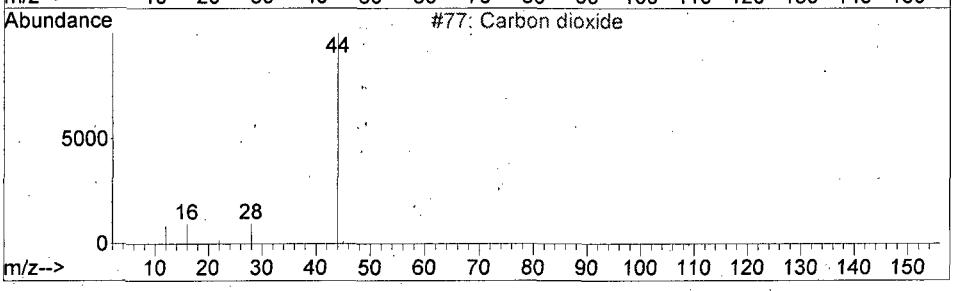
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	999.92 ug/L	2315120000	1,4-Difluorobenzene	8.07

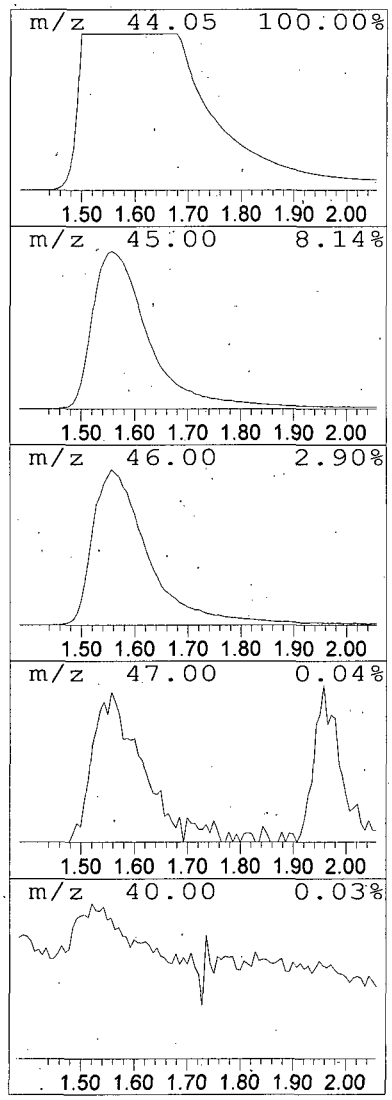
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	d-Alanine	89	C3H7NO2	000338-69-2	2
2	Carbon dioxide	44	CO2	000124-38-9	2
3	Carbon dioxide	44	CO2	000124-38-9	2
4	Ethyne, fluoro-	44	C2HF	002713-09-9	2
5	Nitrous Oxide	44	N2O	010024-97-2	2











Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2X~~E2 EH~~ 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

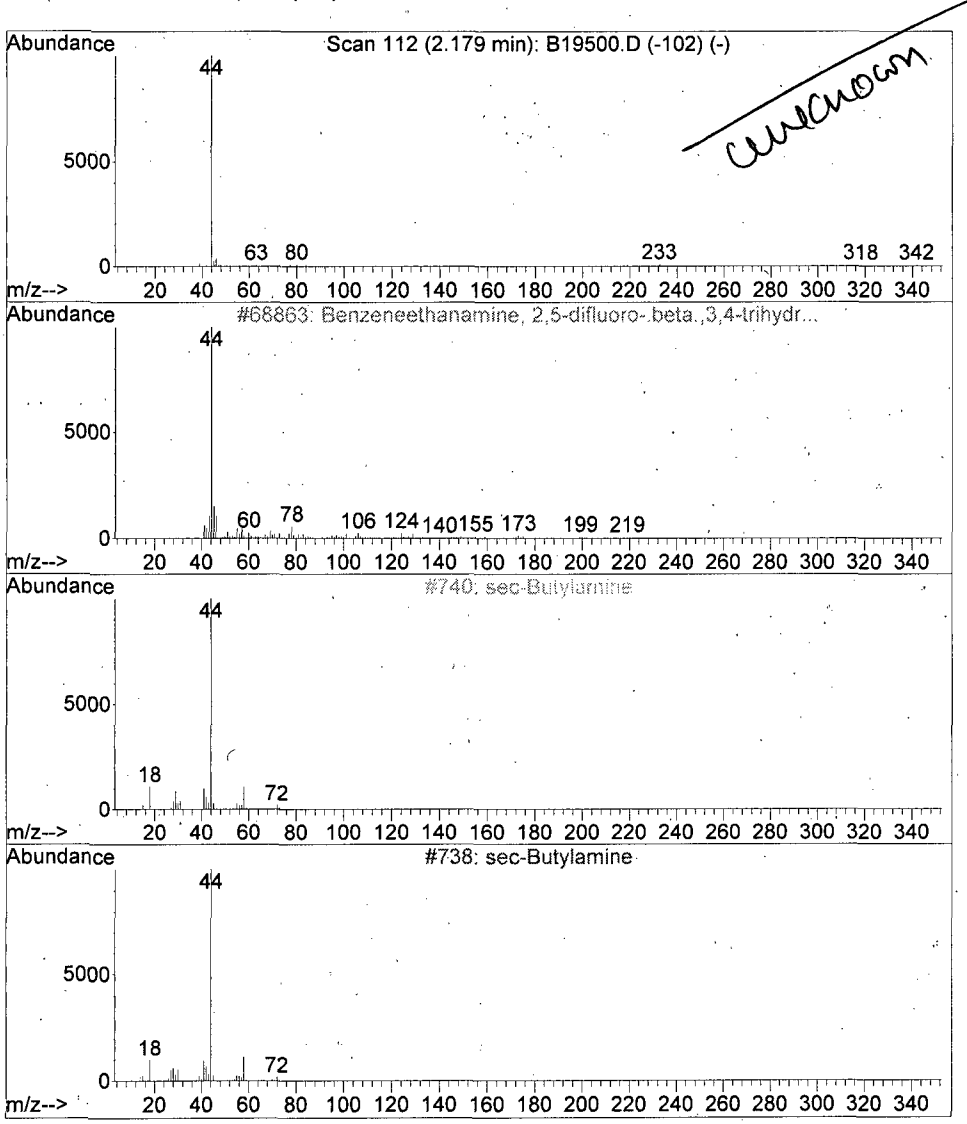
****

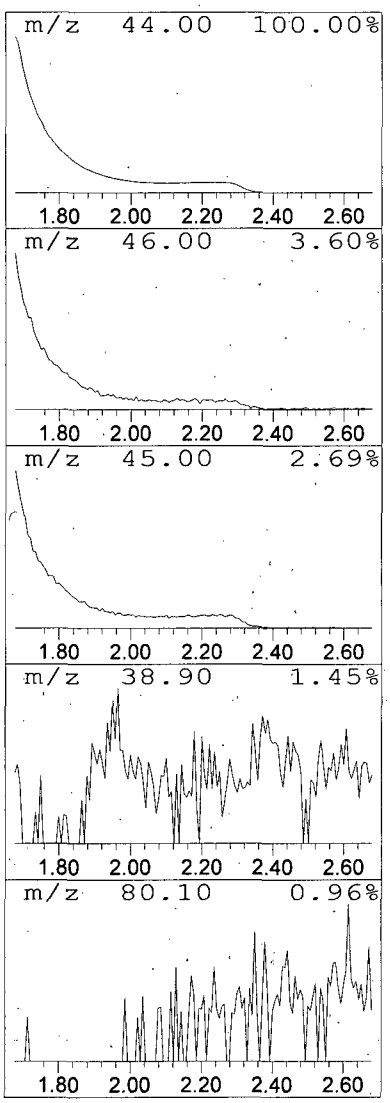
Peak Number 2 Benzeneethanamine, 2,5-difl... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	11.17 ug/L	25869100	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, 2,5-difluoro-...	219	C9H11F2NO3	152434-78-1	5
2	sec-Butylamine	73	C4H11N	013952-84-6	4
3	sec-Butylamine	73	C4H11N	013952-84-6	4
4	sec-Butylamine	73	C4H11N	013952-84-6	4
5	Acetamide, 2,2,2-trifluoro-	113	C2H2F3NO	000354-38-1	4

unknown





Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2 EC 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

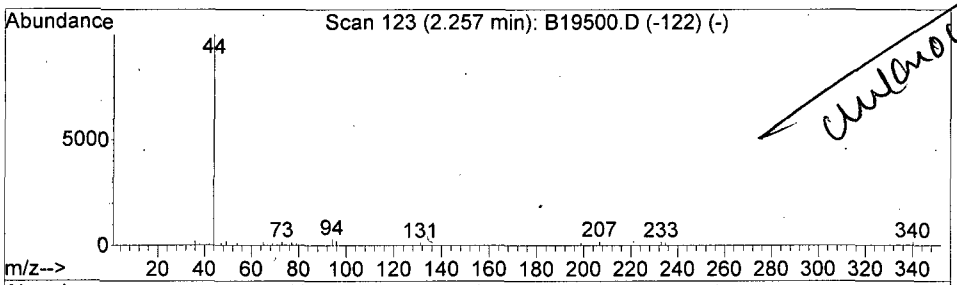
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

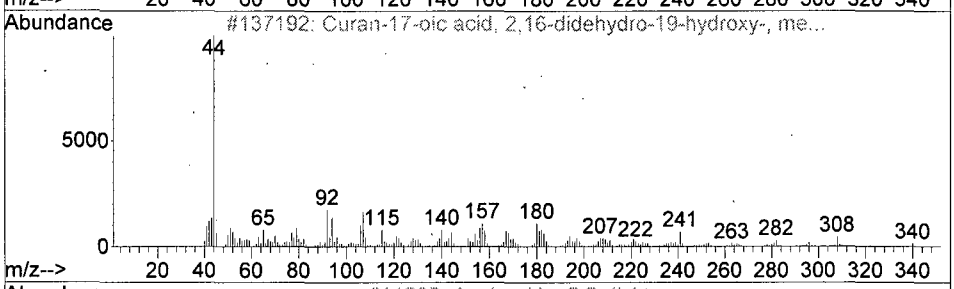
****

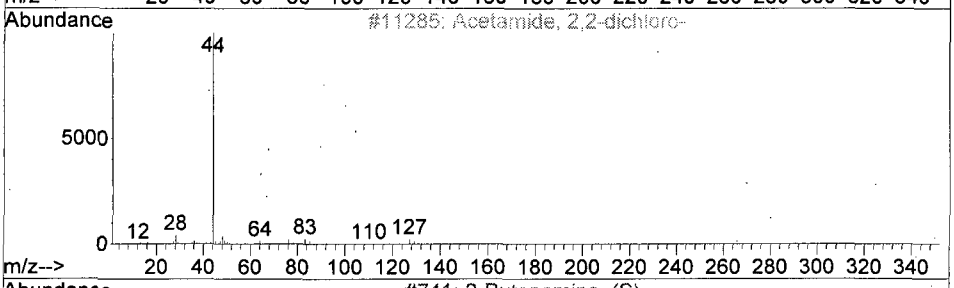
Peak Number 3 Curan-17-oic acid, 2,16-did... Concentration Rank 3

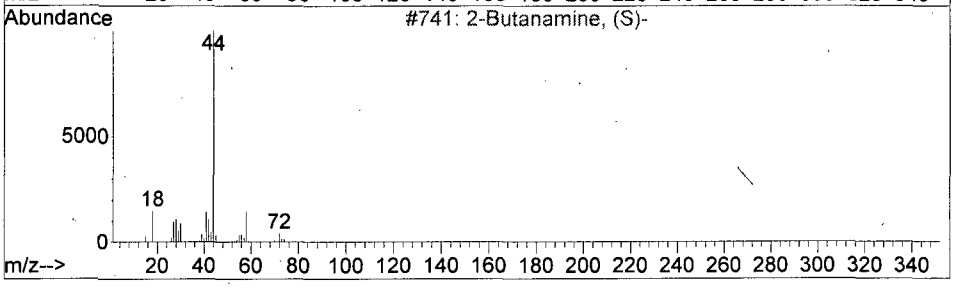
R.T.	EstConc	Area	Relative to ISTD	R.T.
2.26	9.72 ug/L	22510700	1,4-Difluorobenzene	8.07

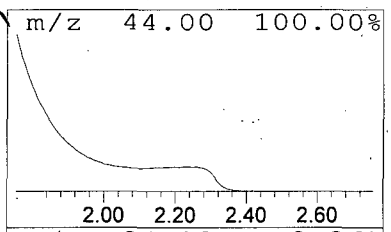
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Curan-17-oic acid, 2,16-didehydr...	340	C20H24N2O3	038681-90-2	4
2	Acetamide, 2,2-dichloro-	127	C2H3Cl2NO	000683-72-7	4
3	2-Butanamine, (S)-	73	C4H11N	000513-49-5	3
4	3,3'-Iminobispropylamine	131	C6H17N3	000056-18-8	3
5	sec-Butylamine	73	C4H11N	013952-84-6	3

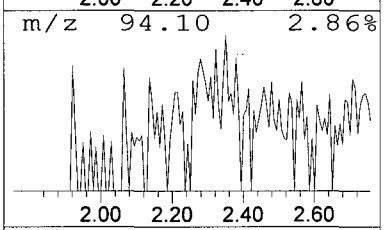


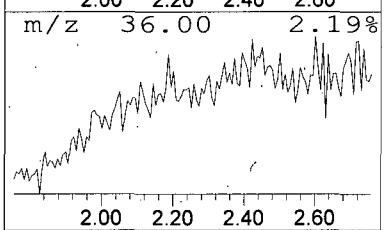


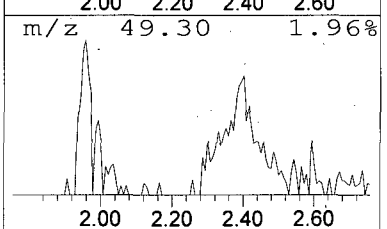


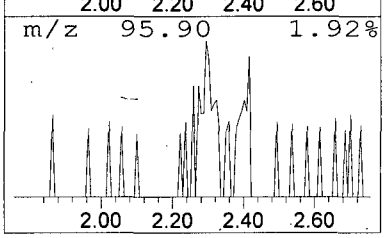












Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19500.D
Acq On : 11/25/08 22:42 Operator: SB
Sample : F2XE2 EC 11/28/08 Inst : B-5973
Misc : S-2066.01 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
d-Alanine	1.56	999.9	ug/L	2315120000	1	8.07	11576600	5.0
Benzeneethanamine...	2.18	11.2	ug/L	25869100	1	8.07	11576600	5.0
Curan-17-oic acid...	2.26	9.7	ug/L	22510700	1	8.07	11576600	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19501

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19501

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19501

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	1100	JB
02		Unknown-02	2.26	15	J
03		Unknown-03	9.84	8.4	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 14:29:14 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	3862433	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	3450816	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1363819	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2726912	4.96	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 99.20%			
7) Chloroethane-d5	2.39	69	1235611	4.96	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 99.20%			
10) 1,1-Dichloroethene-d2	3.12	63	4840735	4.38	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 87.60%			
21) 2-Butanone-d5	6.66	46	3071877	53.22	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 106.44%			
24) Chloroform-d	6.25	84	5372115	4.92	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 98.40%			
26) 1,2-Dichloroethane-d4	7.28	65	2608791	5.31	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 106.20%			
32) Benzene-d6	7.05	84	10968480	4.97	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 99.40%			
36) 1,2-Dichloropropane-d6	8.63	67	3314136	4.97	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 99.40%			
41) Toluene-d8	10.17	98	10031702	5.03	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.60%			
43) trans-1,3-Dichloropropene-	10.89	79	2874380	4.67	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 93.40%			
47) 2-Hexanone-d5	12.20	63	2395957	56.97	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 113.94%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1753377	4.75	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 95.00%			
63) 1,2-Dichlorobenzene-d4	17.47	152	2669039	5.01	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 100.20%			

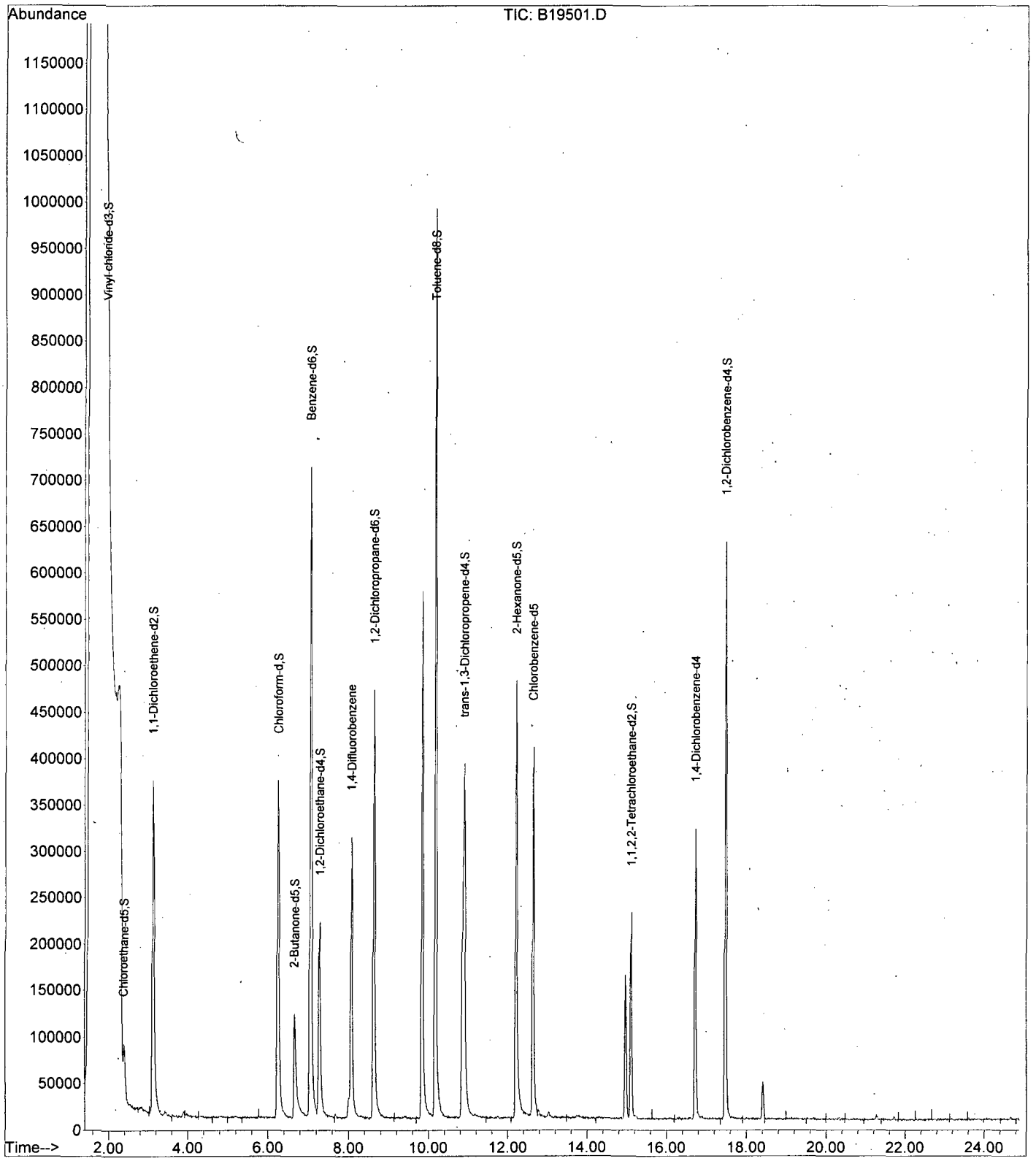
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 14:29:14 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.557	3	25	115	PH	17575629	2395117175	100.00%	82.536%
2	2.257	115	123	137	VV	468384	33251703	1.39%	1.146%
3	2.386	137	141	167	VV	82015	4438369	0.19%	0.153%
4	2.586	167	169	175	VV 5	15878	446239	0.02%	0.015%
5	2.651	175	178	180	VV 3	14582	281567	0.01%	0.010%
6	2.694	180	184	186	VV 4	13936	333931	0.01%	0.012%
7	2.729	186	189	199	VV 7	14044	725260	0.03%	0.025%
8	2.829	199	203	214	VV 5	15091	797348	0.03%	0.027%
9	2.922	214	216	219	VV 3	11756	213577	0.01%	0.007%
10	2.958	219	221	224	VV 4	10488	210072	0.01%	0.007%
11	2.994	224	226	229	VV 2	9714	188035	0.01%	0.006%
12	3.030	229	231	233	VV	14360	153510	0.01%	0.005%
13	3.123	233	244	267	VV	361048	14088629	0.59%	0.485%
14	3.294	267	268	271	VV 2	11641	179309	0.01%	0.006%
15	3.323	271	272	278	VV 2	7793	205119	0.01%	0.007%
16	3.423	278	286	288	VV 4	10977	358965	0.01%	0.012%
17	3.444	288	289	298	VV 4	9596	351784	0.01%	0.012%
18	3.523	298	300	304	VV 4	7255	144154	0.01%	0.005%
19	3.566	304	306	309	VV	5976	113320	0.00%	0.004%
20	3.602	309	311	324	VV 2	8056	362450	0.02%	0.012%
21	3.709	324	326	332	VV 2	6959	200719	0.01%	0.007%
22	3.766	332	334	340	VV 3	6532	194255	0.01%	0.007%
23	3.888	340	351	357	VV 4	11222	590467	0.02%	0.020%
24	3.945	357	359	360	VV 2	7730	96300	0.00%	0.003%
25	3.966	360	362	367	VV 3	9380	240858	0.01%	0.008%
26	4.016	367	369	371	VV 2	7567	119191	0.00%	0.004%
27	4.045	371	373	382	VV 3	6792	289018	0.01%	0.010%
28	4.131	382	385	387	VV 3	6562	136806	0.01%	0.005%
29	4.159	387	389	391	VV 2	6614	96698	0.00%	0.003%
30	4.181	391	392	397	VV 2	7114	155301	0.01%	0.005%
31	4.231	397	399	402	VV 2	6102	128364	0.01%	0.004%
32	4.267	402	404	405	VV	9961	96163	0.00%	0.003%
33	4.310	405	410	414	VV 5	7253	235766	0.01%	0.008%
34	4.352	414	416	424	VV 4	7409	300521	0.01%	0.010%
35	4.438	424	428	431	VV 2	6454	166981	0.01%	0.006%
36	4.474	431	433	436	VV 3	6143	115584	0.00%	0.004%
37	4.531	436	441	443	VV 3	6431	174733	0.01%	0.006%
38	4.588	443	449	451	VV 2	6762	191441	0.01%	0.007%
39	4.631	451	455	461	VV 2	7597	245278	0.01%	0.008%
40	4.688	461	463	465	VV 2	6591	106251	0.00%	0.004%
41	4.710	465	466	468	VV	7047	82886	0.00%	0.003%
42	4.789	468	477	479	VV 3	7369	317577	0.01%	0.011%
43	4.817	479	481	483	VV 2	7690	114708	0.00%	0.004%
44	4.839	483	484	489	VV	7737	169475	0.01%	0.006%

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.882	489	490	496	VV	3	7443	211772	0.01%	0.007%
46	4.953	496	500	507	VV	3	7205	295171	0.01%	0.010%
47	5.017	507	509	511	VV	2	6903	109154	0.00%	0.004%
48	5.067	511	516	518	VV	3	7180	193131	0.01%	0.007%
49	5.089	518	519	521	VV		7876	93712	0.00%	0.003%
50	5.125	521	524	526	VV		8022	154711	0.01%	0.005%
51	5.153	526	528	529	VV	2	7066	79908	0.00%	0.003%
52	5.175	529	531	534	VV	2	8466	179424	0.01%	0.006%
53	5.210	534	536	538	VV	2	7772	127130	0.01%	0.004%
54	5.239	538	540	542	VV	2	7406	106978	0.00%	0.004%
55	5.275	542	545	547	VV		7002	130029	0.01%	0.004%
56	5.296	547	548	552	VV	2	7283	142941	0.01%	0.005%
57	5.339	552	554	555	VV		7127	89199	0.00%	0.003%
58	5.361	555	557	559	VV	2	8386	100472	0.00%	0.003%
59	5.382	559	560	562	VV		7218	79459	0.00%	0.003%
60	5.425	562	566	570	VV		7891	243801	0.01%	0.008%
61	5.461	570	571	573	VV		7117	100622	0.00%	0.003%
62	5.489	573	575	578	VV	2	7949	150401	0.01%	0.005%
63	5.518	578	579	581	VV	2	6942	84546	0.00%	0.003%
64	5.547	581	583	588	VV	2	8173	222378	0.01%	0.008%
65	5.597	588	590	593	VV	2	7689	146100	0.01%	0.005%
66	5.632	593	595	601	VV	3	7816	274808	0.01%	0.009%
67	5.690	601	603	607	VV	2	7934	159217	0.01%	0.005%
68	5.725	607	608	610	VV		8096	103218	0.00%	0.004%
69	5.761	610	613	616	VV		15126	254460	0.01%	0.009%
70	5.797	616	618	620	VV	2	7972	121162	0.01%	0.004%
71	5.825	620	622	625	VV	2	9050	180314	0.01%	0.006%
72	5.861	625	627	629	VV	2	8303	126012	0.01%	0.004%
73	5.890	629	631	633	VV		8286	146095	0.01%	0.005%
74	5.954	633	640	643	VV	2	8557	330656	0.01%	0.011%
75	5.990	643	645	647	VV		8563	116161	0.00%	0.004%
76	6.011	647	648	663	VV	2	8058	550491	0.02%	0.019%
77	6.133	663	665	667	VV		8292	114297	0.00%	0.004%
78	6.161	667	669	670	VV	2	9135	135008	0.01%	0.005%
79	6.247	670	681	709	VV		372439	14715567	0.61%	0.507%
80	6.469	709	712	715	VV	4	10858	260979	0.01%	0.009%
81	6.526	715	720	722	VV	4	9646	252743	0.01%	0.009%
82	6.555	722	724	729	VV	2	10024	275508	0.01%	0.009%
83	6.662	729	739	765	VV		118903	6241335	0.26%	0.215%
84	6.862	765	767	769	VV	3	14812	228816	0.01%	0.008%
85	6.884	769	770	776	VV	3	14214	407535	0.02%	0.014%
86	7.055	776	794	815	VV		710619	25438804	1.06%	0.877%
87	7.277	815	825	842	VV		219426	8701441	0.36%	0.300%
88	7.413	842	844	847	VV		15521	319397	0.01%	0.011%
89	7.463	847	851	853	VV	4	13441	316409	0.01%	0.011%
90	7.491	853	855	857	VV	2	12280	164175	0.01%	0.006%
91	7.513	857	858	862	VV	3	12469	266805	0.01%	0.009%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.556	862	864	865	VV		11218	166361	0.01%	0.006%
93	7.577	865	867	872	VV	4	11625	319308	0.01%	0.011%
94	7.627	872	874	876	VV	2	11475	182311	0.01%	0.006%
95	7.670	876	880	885	VV	3	14021	459485	0.02%	0.016%
96	7.720	885	887	892	VV	3	11735	308337	0.01%	0.011%
97	7.777	892	895	901	VV	4	11330	426172	0.02%	0.015%
98	7.835	901	903	904	VV	2	11138	143445	0.01%	0.005%
99	7.856	904	906	911	VV	2	11513	310437	0.01%	0.011%
100	7.906	911	913	915	VV		11818	198018	0.01%	0.007%
101	7.999	915	926	928	VV	4	32447	1049552	0.04%	0.036%
102	8.071	928	936	960	VV		313840	11138676	0.47%	0.384%
103	8.249	960	961	963	VV		13298	181688	0.01%	0.006%
104	8.278	963	965	967	VV	3	13430	209120	0.01%	0.007%
105	8.307	967	969	973	VV	2	13708	319947	0.01%	0.011%
106	8.349	973	975	981	VV	3	12885	442056	0.02%	0.015%
107	8.414	981	984	997	VV	3	12737	775765	0.03%	0.027%
108	8.528	997	1000	1002	VV		12287	238134	0.01%	0.008%
109	8.628	1002	1014	1038	VV		467570	16520023	0.69%	0.569%
110	8.821	1038	1041	1044	VV	5	15833	364439	0.02%	0.013%
111	8.850	1044	1045	1051	VV	3	14486	403579	0.02%	0.014%
112	8.907	1051	1053	1057	VV	4	12967	334596	0.01%	0.012%
113	8.950	1057	1059	1064	VV	3	13521	385505	0.02%	0.013%
114	9.072	1064	1076	1078	VV	3	13433	755938	0.03%	0.026%
115	9.100	1078	1080	1090	VV	2	13249	611202	0.03%	0.021%
116	9.207	1090	1095	1097	VV		13101	382932	0.02%	0.013%
117	9.236	1097	1099	1105	VV	4	13723	439872	0.02%	0.015%
118	9.293	1105	1107	1109	VV	2	13134	205484	0.01%	0.007%
119	9.343	1109	1114	1116	VV	2	13910	373416	0.02%	0.013%
120	9.393	1116	1121	1123	VV	3	14880	462357	0.02%	0.016%
121	9.429	1123	1126	1129	VV		15037	333701	0.01%	0.011%
122	9.472	1129	1132	1137	VV	3	13477	434430	0.02%	0.015%
123	9.529	1137	1140	1144	VV	2	14217	385492	0.02%	0.013%
124	9.586	1144	1148	1154	VV	3	13639	504760	0.02%	0.017%
125	9.644	1154	1156	1161	VV	2	13326	419359	0.02%	0.014%
126	9.694	1161	1163	1168	VV		14533	360541	0.02%	0.012%
127	9.737	1168	1169	1171	VV		13133	193686	0.01%	0.007%
128	9.837	1171	1183	1206	VV		577365	18703692	0.78%	0.645%
129	10.008	1206	1207	1217	VV	5	18751	793538	0.03%	0.027%
130	10.094	1217	1219	1221	VV	3	17346	248191	0.01%	0.009%
131	10.173	1221	1230	1264	VV		985502	30087686	1.26%	1.037%
132	10.437	1264	1267	1272	VV	6	16238	505004	0.02%	0.017%
133	10.487	1272	1274	1283	VV	3	16664	751660	0.03%	0.026%
134	10.587	1283	1288	1290	VV	2	15523	440575	0.02%	0.015%
135	10.623	1290	1293	1297	VV	2	15546	405409	0.02%	0.014%
136	10.659	1297	1298	1303	VV	3	16037	422639	0.02%	0.015%
137	10.709	1303	1305	1311	VV	3	16085	500947	0.02%	0.017%
138	10.766	1311	1313	1314	VV		15871	207949	0.01%	0.007%
139	10.895	1314	1331	1363	VV	3	391605	21704361	0.91%	0.748%

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.167	1363	1369	1375	VV 5	19499	917239	0.04%	0.032%
141	11.224	1375	1377	1383	VV 4	18578	569284	0.02%	0.020%
142	11.288	1383	1386	1393	VV 4	17235	744187	0.03%	0.026%
143	11.353	1393	1395	1402	VV 3	17247	638775	0.03%	0.022%
144	11.424	1402	1405	1407	VV 2	16686	353835	0.01%	0.012%
145	11.453	1407	1409	1414	VV 2	17199	460261	0.02%	0.016%
146	11.503	1414	1416	1417	VV	15812	206988	0.01%	0.007%
147	11.524	1417	1419	1424	VV 4	16443	441812	0.02%	0.015%
148	11.574	1424	1426	1429	VV 3	17240	337218	0.01%	0.012%
149	11.610	1429	1431	1435	VV	16584	450280	0.02%	0.016%
150	11.681	1435	1441	1445	VV 3	17064	637810	0.03%	0.022%
151	11.739	1445	1449	1457	VV 4	18025	900486	0.04%	0.031%
152	11.817	1457	1460	1468	VV 3	16932	780326	0.03%	0.027%
153	11.896	1468	1471	1473	VV 2	17075	315161	0.01%	0.011%
154	11.925	1473	1475	1483	VV 3	17298	725767	0.03%	0.025%
155	12.017	1483	1488	1496	VV 2	17437	927228	0.04%	0.032%
156	12.089	1496	1498	1500	VV	17734	254286	0.01%	0.009%
157	12.203	1500	1514	1537	VV 2	483763	16907014	0.71%	0.583%
158	12.375	1537	1538	1541	VV 2	25333	418209	0.02%	0.014%
159	12.411	1541	1543	1545	VV 3	24169	425553	0.02%	0.015%
160	12.432	1545	1546	1548	VV	22847	270876	0.01%	0.009%
161	12.461	1548	1550	1552	VV 3	22066	349244	0.01%	0.012%
162	12.482	1552	1553	1559	VV 4	21600	669456	0.03%	0.023%
163	12.632	1559	1574	1590	VV	417310	13598674	0.57%	0.469%
164	12.761	1590	1592	1604	VV 3	26071	1285121	0.05%	0.044%
165	12.854	1604	1605	1610	VV 4	20998	514425	0.02%	0.018%
166	12.911	1610	1613	1615	VV 4	19848	407135	0.02%	0.014%
167	12.933	1615	1616	1619	VV 2	19837	334138	0.01%	0.012%
168	12.968	1619	1621	1623	VV 2	19337	309094	0.01%	0.011%
169	12.997	1623	1625	1626	VV 2	20700	279487	0.01%	0.010%
170	13.033	1626	1630	1633	VV 4	24348	715790	0.03%	0.025%
171	13.069	1633	1635	1641	VV 4	20919	635562	0.03%	0.022%
172	13.126	1641	1643	1648	VV 3	19193	605790	0.03%	0.021%
173	13.183	1648	1651	1655	VV 3	20009	521326	0.02%	0.018%
174	13.226	1655	1657	1659	VV 2	19623	340924	0.01%	0.012%
175	13.254	1659	1661	1663	VV	19123	307620	0.01%	0.011%
176	13.283	1663	1665	1671	VV 3	18991	639847	0.03%	0.022%
177	13.369	1671	1677	1680	VV 2	20018	689251	0.03%	0.024%
178	13.397	1680	1681	1685	VV	19709	405392	0.02%	0.014%
179	13.483	1685	1693	1694	VV	21075	794323	0.03%	0.027%
180	13.512	1694	1697	1699	VV 2	20282	409543	0.02%	0.014%
181	13.540	1699	1701	1706	VV 2	19528	562058	0.02%	0.019%
182	13.591	1706	1708	1709	VV 2	18973	246206	0.01%	0.008%
183	13.633	1709	1714	1716	VV	20478	508299	0.02%	0.018%
184	13.662	1716	1718	1721	VV 3	19793	478859	0.02%	0.017%
185	13.734	1721	1728	1735	VV 5	21458	1177208	0.05%	0.041%
186	13.791	1735	1736	1739	VV	21689	316775	0.01%	0.011%

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	13.826	1739	1741	1746	VV 2	20277	592372	0.02%	0.020%
188	13.869	1746	1747	1751	VV	19439	492403	0.02%	0.017%
189	13.912	1751	1753	1754	VV	20178	246564	0.01%	0.008%
190	13.955	1754	1759	1760	VV	20408	480515	0.02%	0.017%
191	13.984	1760	1763	1766	VV 2	20325	515349	0.02%	0.018%
192	14.020	1766	1768	1769	VV	20210	250921	0.01%	0.009%
193	14.041	1769	1771	1777	VV 3	19756	634344	0.03%	0.022%
194	14.105	1777	1780	1782	VV 2	20431	399118	0.02%	0.014%
195	14.127	1782	1783	1785	VV	19801	235880	0.01%	0.008%
196	14.155	1785	1787	1792	VV 2	20455	580651	0.02%	0.020%
197	14.198	1792	1793	1795	VV	19266	270444	0.01%	0.009%
198	14.241	1795	1799	1801	VV 2	20499	481686	0.02%	0.017%
199	14.298	1801	1807	1808	VV 3	21044	603659	0.03%	0.021%
200	14.320	1808	1810	1813	VV 2	21002	388407	0.02%	0.013%
201	14.370	1813	1817	1820	VV 2	20665	612276	0.03%	0.021%
202	14.427	1820	1825	1832	VV 3	20539	1020483	0.04%	0.035%
203	14.491	1832	1834	1838	VV 2	20227	535590	0.02%	0.018%
204	14.534	1838	1840	1851	VV 3	20335	1057914	0.04%	0.036%
205	14.627	1851	1853	1855	VV 2	20573	379089	0.02%	0.013%
206	14.656	1855	1857	1860	VV 2	20219	432619	0.02%	0.015%
207	14.685	1860	1861	1863	VV	20922	267813	0.01%	0.009%
208	14.735	1863	1868	1870	VV 2	21048	605017	0.03%	0.021%
209	14.763	1870	1872	1874	VV	20860	300608	0.01%	0.010%
210	14.792	1874	1876	1879	VV 2	20383	477209	0.02%	0.016%
211	14.835	1879	1882	1885	VV 3	21298	517651	0.02%	0.018%
212	14.971	1885	1901	1911	VV	174437	6607209	0.28%	0.228%
213	15.106	1911	1920	1935	VV	238459	8036886	0.34%	0.277%
214	15.228	1935	1937	1943	VV 4	23595	719982	0.03%	0.025%
215	15.278	1943	1944	1948	VV 2	21590	451289	0.02%	0.016%
216	15.321	1948	1950	1954	VV 2	21612	620306	0.03%	0.021%
217	15.364	1954	1956	1958	VV 2	21113	284610	0.01%	0.010%
218	15.414	1958	1963	1966	VV 3	21974	738139	0.03%	0.025%
219	15.450	1966	1968	1971	VV 2	21234	500496	0.02%	0.017%
220	15.485	1971	1973	1978	VV	21557	626190	0.03%	0.022%
221	15.550	1978	1982	1983	VV 2	22147	445258	0.02%	0.015%
222	15.571	1983	1985	1989	VV 2	22212	526425	0.02%	0.018%
223	15.628	1989	1993	1997	VV	28723	815622	0.03%	0.028%
224	15.671	1997	1999	2003	VV	21423	553412	0.02%	0.019%
225	15.736	2003	2008	2011	VV 2	22243	736507	0.03%	0.025%
226	15.779	2011	2014	2018	VV 2	22232	631992	0.03%	0.022%
227	15.836	2018	2022	2024	VV 2	22013	507663	0.02%	0.017%
228	15.879	2024	2028	2032	VV 2	21963	764018	0.03%	0.026%
229	15.936	2032	2036	2038	VV	22713	539295	0.02%	0.019%
230	15.972	2038	2041	2043	VV 3	22694	513662	0.02%	0.018%
231	16.014	2043	2047	2050	VV 2	22269	580976	0.02%	0.020%
232	16.050	2050	2052	2054	VV 2	22569	420618	0.02%	0.014%
233	16.093	2054	2058	2060	VV 3	23201	576733	0.02%	0.020%
234	16.115	2060	2061	2066	VV	22651	524575	0.02%	0.018%

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.165	2066	2068	2077	VV		22454	1088843	0.05%	0.038%
236	16.272	2077	2083	2087	VV	2	23299	952083	0.04%	0.033%
237	16.322	2087	2090	2093	VV	3	24059	583675	0.02%	0.020%
238	16.358	2093	2095	2097	VV	2	22788	384056	0.02%	0.013%
239	16.386	2097	2099	2102	VV		23393	410058	0.02%	0.014%
240	16.415	2102	2103	2109	VV	2	22274	737577	0.03%	0.025%
241	16.465	2109	2110	2117	VV	2	23262	746632	0.03%	0.026%
242	16.558	2117	2123	2124	VV	2	23736	716940	0.03%	0.025%
243	16.579	2124	2126	2132	VV	3	23951	801713	0.03%	0.028%
244	16.722	2132	2146	2162	VV		333971	11306076	0.47%	0.390%
245	16.865	2162	2166	2169	VV	5	25566	648827	0.03%	0.022%
246	16.894	2169	2170	2176	VV	3	25748	814413	0.03%	0.028%
247	16.951	2176	2178	2185	VV	3	23976	869330	0.04%	0.030%
248	17.015	2185	2187	2190	VV	2	24176	467639	0.02%	0.016%
249	17.051	2190	2192	2194	VV	2	23456	424497	0.02%	0.015%
250	17.080	2194	2196	2201	VV	2	24463	711968	0.03%	0.025%
251	17.130	2201	2203	2204	VV		23878	346746	0.01%	0.012%
252	17.151	2204	2206	2208	VV	2	24955	381144	0.02%	0.013%
253	17.209	2208	2214	2223	VV	3	24214	1514328	0.06%	0.052%
254	17.316	2223	2229	2232	VV	2	24724	918056	0.04%	0.032%
255	17.352	2232	2234	2240	VV		24747	720724	0.03%	0.025%
256	17.473	2240	2251	2285	VV		647629	21460508	0.90%	0.740%
257	17.731	2285	2287	2289	VV	2	25207	438552	0.02%	0.015%
258	17.759	2289	2291	2295	VV	3	25210	581126	0.02%	0.020%
259	17.802	2295	2297	2304	VV	3	25214	959678	0.04%	0.033%
260	17.866	2304	2306	2308	VV		25292	395329	0.02%	0.014%
261	17.909	2308	2312	2315	VV	2	26841	787964	0.03%	0.027%
262	17.945	2315	2317	2319	VV		24494	416521	0.02%	0.014%
263	17.995	2319	2324	2327	VV	3	25898	816422	0.03%	0.028%
264	18.024	2327	2328	2330	VV		25099	340684	0.01%	0.012%
265	18.052	2330	2332	2334	VV		25282	399816	0.02%	0.014%
266	18.088	2334	2337	2339	VV	3	25348	500889	0.02%	0.017%
267	18.117	2339	2341	2346	VV	2	25076	752402	0.03%	0.026%
268	18.167	2346	2348	2356	VV	2	26314	1108992	0.05%	0.038%
269	18.245	2356	2359	2364	VV	2	25860	856879	0.04%	0.030%
270	18.295	2364	2366	2370	VV	2	25788	613603	0.03%	0.021%
271	18.331	2370	2371	2372	VV		24907	293368	0.01%	0.010%
272	18.410	2372	2382	2389	VV		64793	2837822	0.12%	0.098%
273	18.474	2389	2391	2393	VV	2	25760	514030	0.02%	0.018%
274	18.531	2393	2399	2406	VV	2	25927	1381731	0.06%	0.048%
275	18.603	2406	2409	2411	VV	2	25774	480060	0.02%	0.017%
276	18.631	2411	2413	2418	VV	3	26266	785075	0.03%	0.027%
277	18.682	2418	2420	2422	VV		25538	420477	0.02%	0.014%
278	18.703	2422	2423	2425	VV		25846	372847	0.02%	0.013%
279	18.732	2425	2427	2429	VV		26073	428243	0.02%	0.015%
280	18.760	2429	2431	2433	VV		25717	396640	0.02%	0.014%
281	18.789	2433	2435	2437	VV	2	26554	485262	0.02%	0.017%

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	18.825	2437	2440	2442	VV 3	26425	536094	0.02%	0.018%
283	18.846	2442	2443	2449	VV 2	26171	845051	0.04%	0.029%
284	18.903	2449	2451	2453	VV 2	25599	431384	0.02%	0.015%
285	18.939	2453	2456	2461	VV 2	26450	800490	0.03%	0.028%
286	18.989	2461	2463	2464	VV	33233	442985	0.02%	0.015%
287	19.018	2464	2467	2472	VV 2	26742	886673	0.04%	0.031%
288	19.068	2472	2474	2478	VV 2	26720	661716	0.03%	0.023%
289	19.125	2478	2482	2488	VV	28056	1093988	0.05%	0.038%
290	19.196	2488	2492	2497	VV 2	26978	974482	0.04%	0.034%
291	19.239	2497	2498	2501	VV 2	27587	509329	0.02%	0.018%
292	19.289	2501	2505	2508	VV	27167	770660	0.03%	0.027%
293	19.368	2508	2516	2519	VV 2	27071	1320374	0.06%	0.046%
294	19.404	2519	2521	2523	VV	27074	433498	0.02%	0.015%
295	19.454	2523	2528	2530	VV 2	27219	747094	0.03%	0.026%
296	19.475	2530	2531	2533	VV 2	26490	365299	0.02%	0.013%
297	19.504	2533	2535	2545	VV 2	27693	1296381	0.05%	0.045%
298	19.590	2545	2547	2553	VV 3	27425	919112	0.04%	0.032%
299	19.647	2553	2555	2557	VV 2	27425	431605	0.02%	0.015%
300	19.690	2557	2561	2563	VV	28265	771585	0.03%	0.027%
301	19.718	2563	2565	2569	VV 2	27786	631994	0.03%	0.022%
302	19.754	2569	2570	2572	VV	27217	371336	0.02%	0.013%
303	19.783	2572	2574	2577	VV	27841	628628	0.03%	0.022%
304	19.818	2577	2579	2583	VV 2	27090	635595	0.03%	0.022%
305	19.861	2583	2585	2592	VV 3	27366	1086046	0.05%	0.037%
306	19.926	2592	2594	2598	VV 2	27757	648350	0.03%	0.022%
307	19.969	2598	2600	2602	VV	27854	490338	0.02%	0.017%
308	19.997	2602	2604	2611	VV 2	30596	1067240	0.04%	0.037%
309	20.069	2611	2614	2620	VV	28220	1046370	0.04%	0.036%
310	20.169	2620	2628	2632	VV 2	28237	1455721	0.06%	0.050%
311	20.233	2632	2637	2641	VV 2	28343	990365	0.04%	0.034%
312	20.326	2641	2650	2655	VV 3	29283	1678950	0.07%	0.058%
313	20.376	2655	2657	2659	VV 2	28507	497727	0.02%	0.017%
314	20.398	2659	2660	2669	VV 2	29140	1246254	0.05%	0.043%
315	20.476	2669	2671	2677	VV	33149	961644	0.04%	0.033%
316	20.533	2677	2679	2685	VV 2	28541	908208	0.04%	0.031%
317	20.605	2685	2689	2690	VV 2	27943	681685	0.03%	0.023%
318	20.626	2690	2692	2697	VV	28476	816257	0.03%	0.028%
319	20.684	2697	2700	2703	VV	29672	731118	0.03%	0.025%
320	20.719	2703	2705	2708	VV 2	29174	612975	0.03%	0.021%
321	20.784	2708	2714	2716	VV 2	29312	986425	0.04%	0.034%
322	20.819	2716	2719	2727	VV 2	28395	1247085	0.05%	0.043%
323	20.905	2727	2731	2733	VV 3	29078	767039	0.03%	0.026%
324	20.927	2733	2734	2736	VV	27968	364008	0.02%	0.013%
325	20.955	2736	2738	2741	VV 2	29674	521856	0.02%	0.018%
326	20.984	2741	2742	2746	VV	28646	674086	0.03%	0.023%
327	21.027	2746	2748	2752	VV	28817	673915	0.03%	0.023%
328	21.084	2752	2756	2758	VV 2	28708	768713	0.03%	0.026%
329	21.127	2758	2762	2764	VV 2	28829	691999	0.03%	0.024%

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.163	2764	2767	2772	VV 2	29433	982557	0.04%	0.034%
331	21.263	2772	2781	2791	VV 6	33836	2516119	0.11%	0.087%
332	21.356	2791	2794	2802	VV	29451	1311603	0.05%	0.045%
333	21.434	2802	2805	2807	VV	30659	653648	0.03%	0.023%
334	21.463	2807	2809	2814	VV	29839	864455	0.04%	0.030%
335	21.563	2814	2823	2825	VV 2	30027	1348187	0.06%	0.046%
336	21.584	2825	2826	2831	VV 2	30004	857445	0.04%	0.030%
337	21.642	2831	2834	2835	VV 2	29411	482821	0.02%	0.017%
338	21.663	2835	2837	2840	VV 2	29661	589246	0.02%	0.020%
339	21.706	2840	2843	2851	VV 3	33038	1407890	0.06%	0.049%
340	21.792	2851	2855	2858	VV 2	30044	929446	0.04%	0.032%
341	21.820	2858	2859	2861	VV	36240	474955	0.02%	0.016%
342	21.863	2861	2865	2869	VV 3	30691	1030850	0.04%	0.036%
343	21.906	2869	2871	2874	VV 2	30285	601406	0.03%	0.021%
344	21.949	2874	2877	2882	VV 2	30974	1040883	0.04%	0.036%
345	21.999	2882	2884	2887	VV 2	30122	634962	0.03%	0.022%
346	22.035	2887	2889	2891	VV 2	30085	488496	0.02%	0.017%
347	22.106	2891	2899	2901	VV 3	30326	1302446	0.05%	0.045%
348	22.135	2901	2903	2907	VV 2	30384	767038	0.03%	0.026%
349	22.178	2907	2909	2915	VV 3	30676	1040336	0.04%	0.036%
350	22.249	2915	2919	2921	VV	38441	830327	0.03%	0.029%
351	22.278	2921	2923	2927	VV	31073	739295	0.03%	0.025%
352	22.328	2927	2930	2932	VV	31152	687787	0.03%	0.024%
353	22.364	2932	2935	2944	VV 3	31519	1557892	0.07%	0.054%
354	22.443	2944	2946	2948	VV	30470	434039	0.02%	0.015%
355	22.464	2948	2949	2951	VV	31124	466024	0.02%	0.016%
356	22.500	2951	2954	2956	VV	31521	596551	0.02%	0.021%
357	22.578	2956	2965	2967	VV 2	31930	1465997	0.06%	0.051%
358	22.607	2967	2969	2976	VV 2	32091	1163977	0.05%	0.040%
359	22.664	2976	2977	2981	VV	39970	730118	0.03%	0.025%
360	22.707	2981	2983	2986	VV 3	31570	747521	0.03%	0.026%
361	22.750	2986	2989	2995	VV 2	31658	1208102	0.05%	0.042%
362	22.829	2995	3000	3004	VV	32277	1132653	0.05%	0.039%
363	22.872	3004	3006	3007	VV	31675	460851	0.02%	0.016%
364	22.893	3007	3009	3018	VV 2	32566	1507236	0.06%	0.052%
365	22.972	3018	3020	3022	VV 2	32013	426159	0.02%	0.015%
366	23.015	3022	3026	3032	VV 3	32688	1381411	0.06%	0.048%
367	23.072	3032	3034	3040	VV	32722	1112061	0.05%	0.038%
368	23.129	3040	3042	3043	VV	36380	490448	0.02%	0.017%
369	23.172	3043	3048	3056	VV 3	32738	1681045	0.07%	0.058%
370	23.243	3056	3058	3060	VV 2	31659	582358	0.02%	0.020%
371	23.272	3060	3062	3063	VV	31989	453435	0.02%	0.016%
372	23.315	3063	3068	3070	VV 3	32598	879649	0.04%	0.030%
373	23.358	3070	3074	3078	VV 2	33137	1070245	0.04%	0.037%
374	23.394	3078	3079	3084	VV 3	32510	815536	0.03%	0.028%
375	23.436	3084	3085	3092	VV 3	32580	1165255	0.05%	0.040%
376	23.508	3092	3095	3098	VV	32983	860308	0.04%	0.030%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

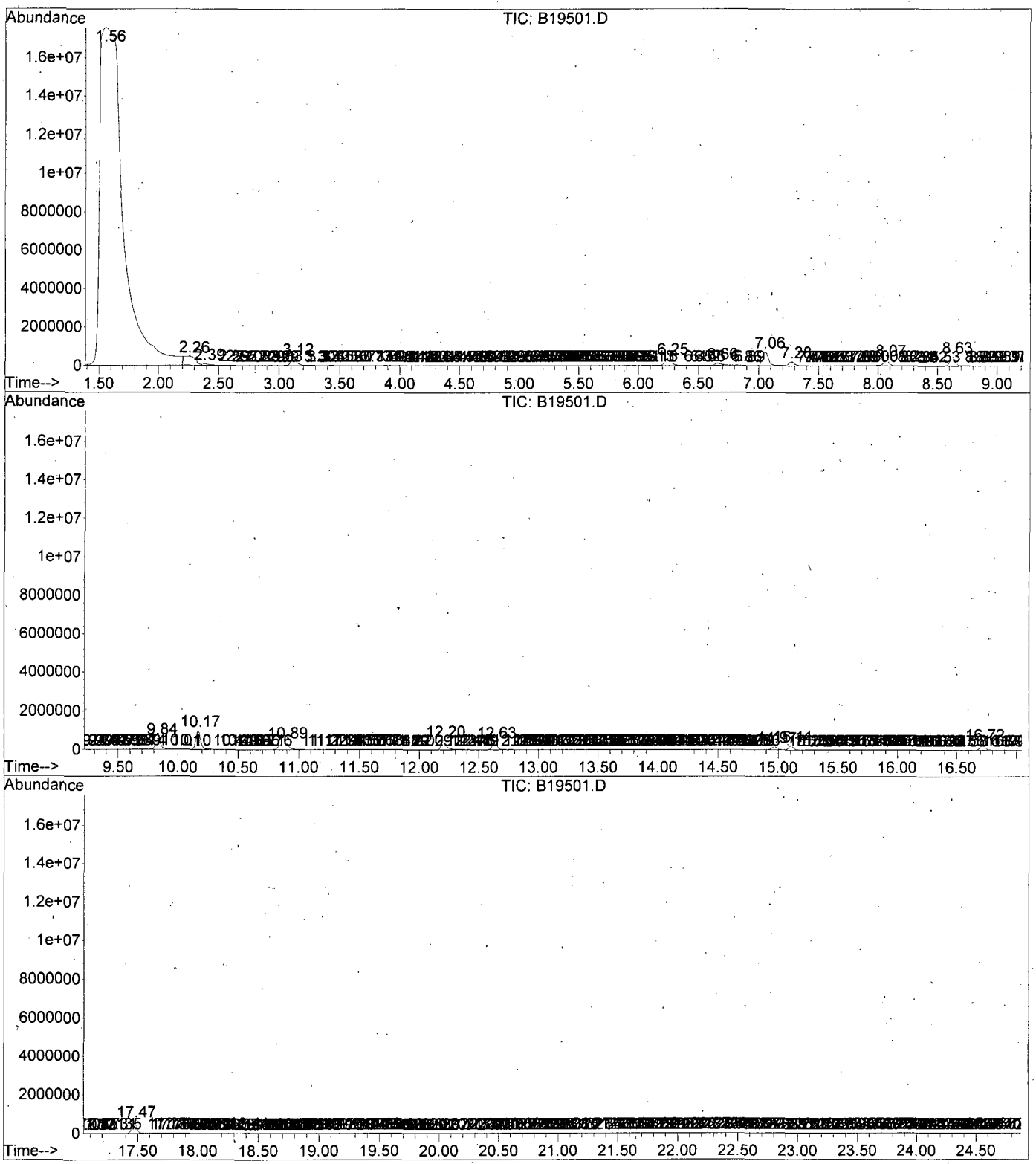
377	23.551	3098	3101	3107	VV	33064	1253809	0.05%	0.043%
378	23.608	3107	3109	3113	VV	34194	760619	0.03%	0.026%
379	23.651	3113	3115	3116	VV 2	32675	544184	0.02%	0.019%
380	23.687	3116	3120	3125	VV 2	33231	1183570	0.05%	0.041%
381	23.744	3125	3128	3136	VV 2	33468	1491014	0.06%	0.051%
382	23.823	3136	3139	3143	VV 2	33314	1009385	0.04%	0.035%
383	23.865	3143	3145	3155	VV 3	33279	1707032	0.07%	0.059%
384	23.973	3155	3160	3161	VV 3	33137	919193	0.04%	0.032%
385	23.994	3161	3163	3165	VV 2	33778	491796	0.02%	0.017%
386	24.023	3165	3167	3170	VV 2	34188	766630	0.03%	0.026%
387	24.058	3170	3172	3175	VV 2	34720	684792	0.03%	0.024%
388	24.109	3175	3179	3183	VV 3	34043	1170391	0.05%	0.040%
389	24.151	3183	3185	3188	VV 2	33516	711544	0.03%	0.025%
390	24.187	3188	3190	3194	VV 2	33777	838243	0.03%	0.029%
391	24.244	3194	3198	3200	VV 3	34590	807949	0.03%	0.028%
392	24.287	3200	3204	3206	VV 2	34385	917276	0.04%	0.032%
393	24.330	3206	3210	3215	VV 3	34928	1288051	0.05%	0.044%
394	24.380	3215	3217	3223	VV 2	34382	1181282	0.05%	0.041%
395	24.452	3223	3227	3229	VV 3	35026	893425	0.04%	0.031%
396	24.488	3229	3232	3235	VV 3	35388	831956	0.03%	0.029%
397	24.523	3235	3237	3239	VV 2	34118	561284	0.02%	0.019%
398	24.545	3239	3240	3242	VV	34247	488245	0.02%	0.017%
399	24.573	3242	3244	3247	VV 2	34863	767425	0.03%	0.026%
400	24.652	3247	3255	3260	VV 3	36784	1886080	0.08%	0.065%
401	24.695	3260	3261	3263	VV	35351	487776	0.02%	0.017%
402	24.723	3263	3265	3266	VV 2	35049	504523	0.02%	0.017%
403	24.745	3266	3268	3274	VV 2	34824	1189101	0.05%	0.041%
404	24.809	3274	3277	3281	VBA3	35789	955608	0.04%	0.033%

Sum of corrected areas: 2901917897

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

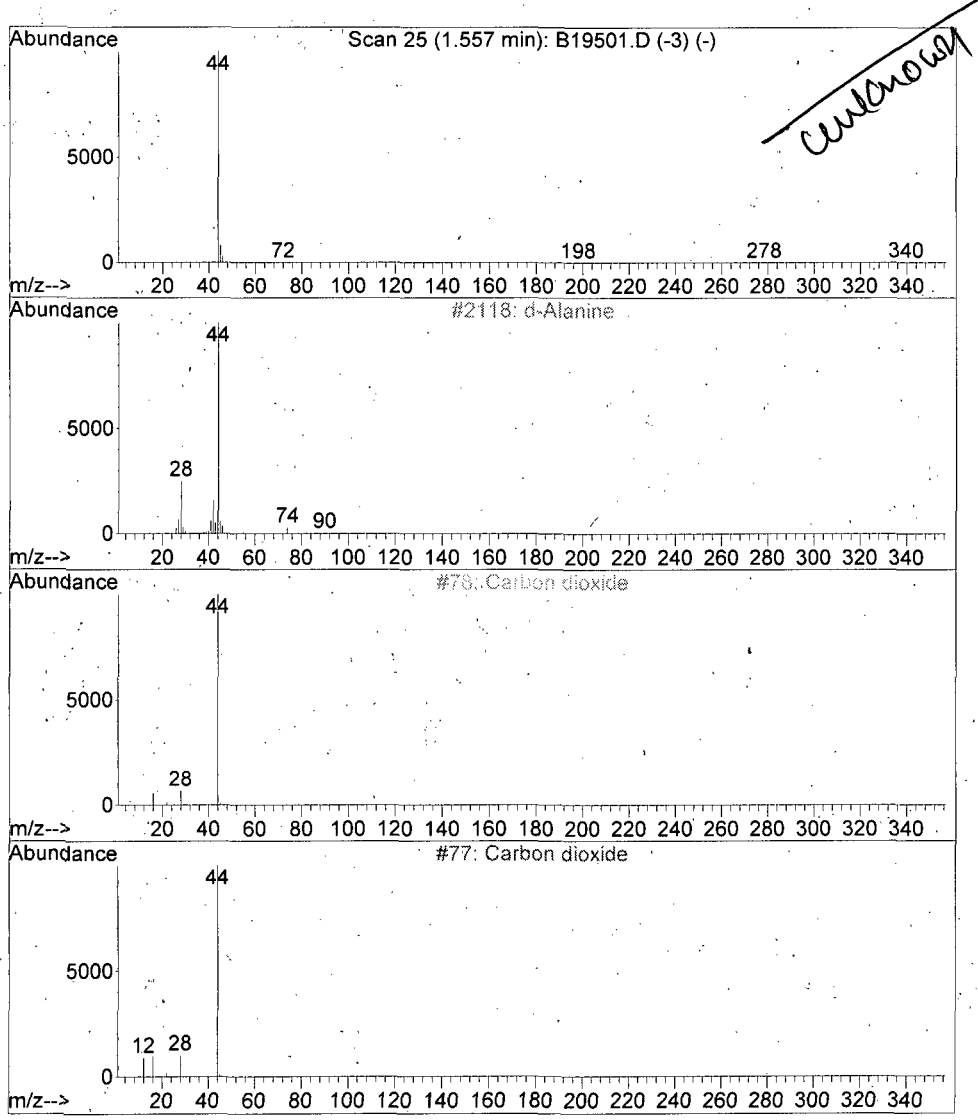
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

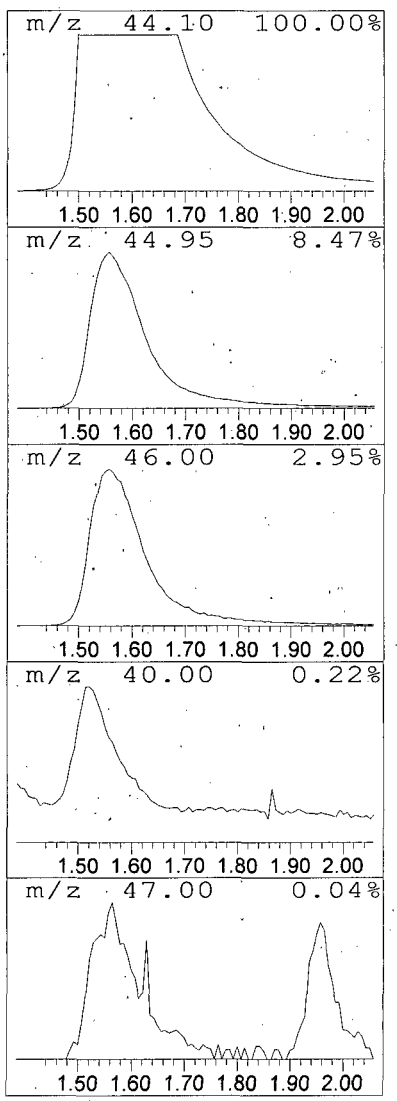
****

Peak Number 1 d-Alanine Concentration Rank 1

R.T.	EstConc.	Area	Relative to ISTD	R.T.
1.56	1075.14 ug/L	2395120000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	d-Alanine	89	C3H7NO2	000338-69-2	2
2	Carbon dioxide	44	CO2	000124-38-9	2
3	Carbon dioxide	44	CO2	000124-38-9	2
4	Ethyne, fluoro-	44	C2HF	002713-09-9	2
5	Nitrous Oxide	44	N2O	010024-97-2	2





Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/26/08

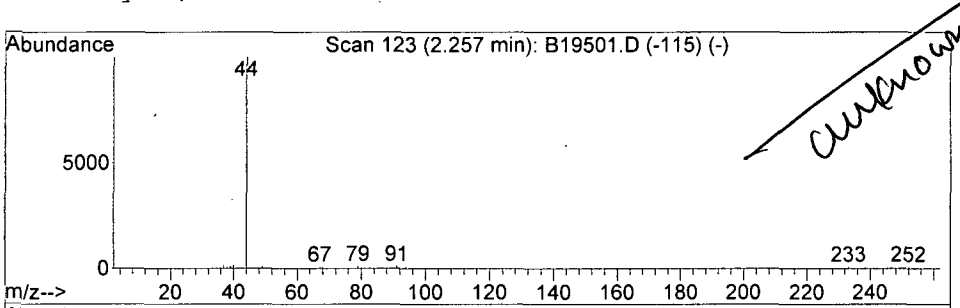
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****

Peak Number 2 Acetaldehyde Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.26	14.93 ug/L	33251700	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	3
2	Acetaldehyde	44	C2H4O	000075-07-0	2
3	Carbon dioxide	44	CO2	000124-38-9	2
4	Nitrous Oxide	44	N2O	010024-97-2	2
5	Ethyne, fluoro-	44	C2HF	002713-09-9	2



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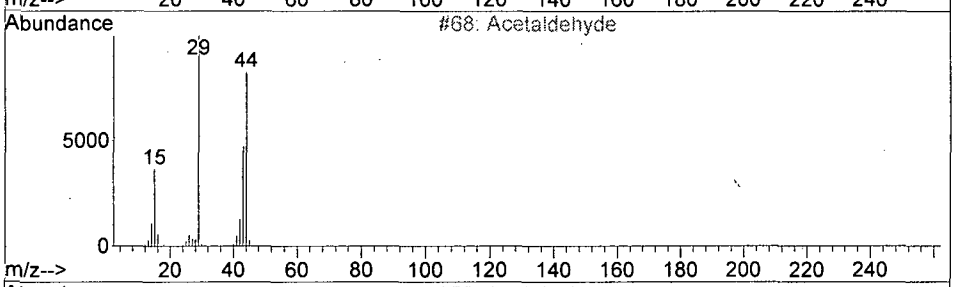
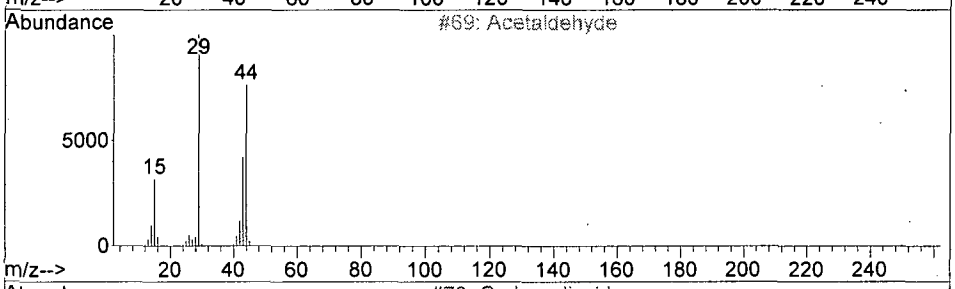
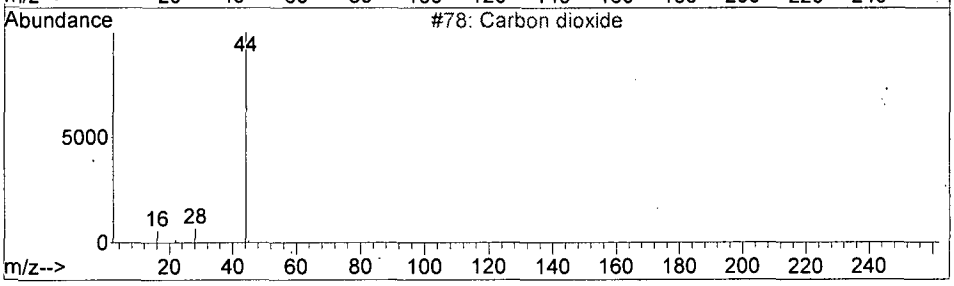
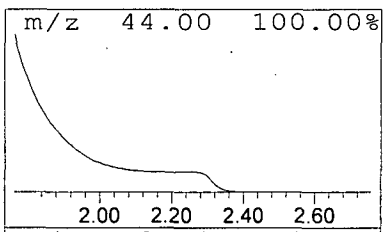
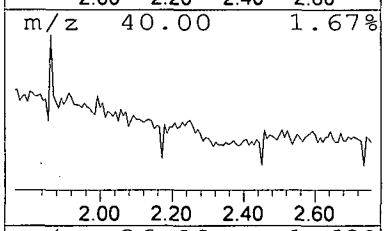
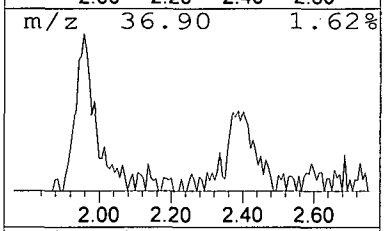


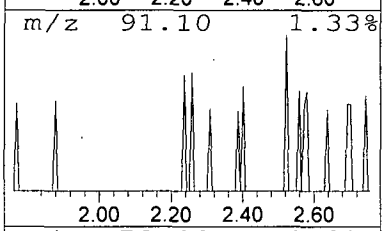


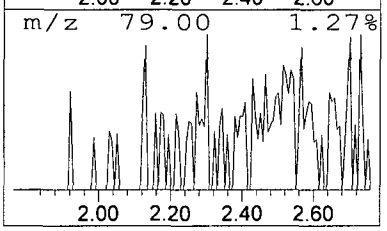












Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

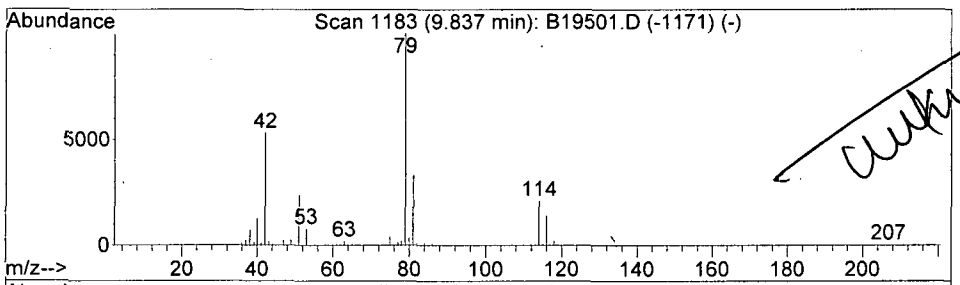
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

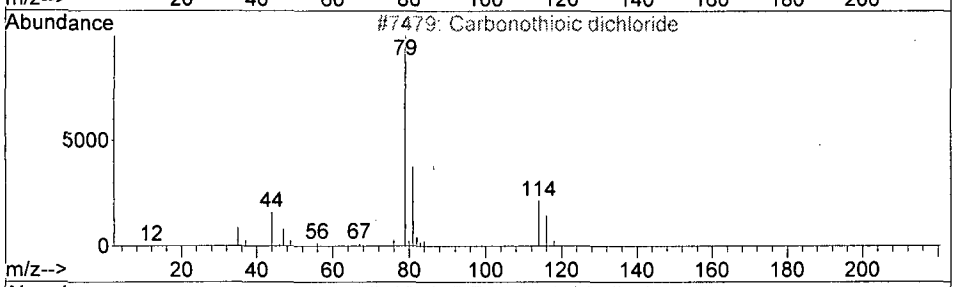
****

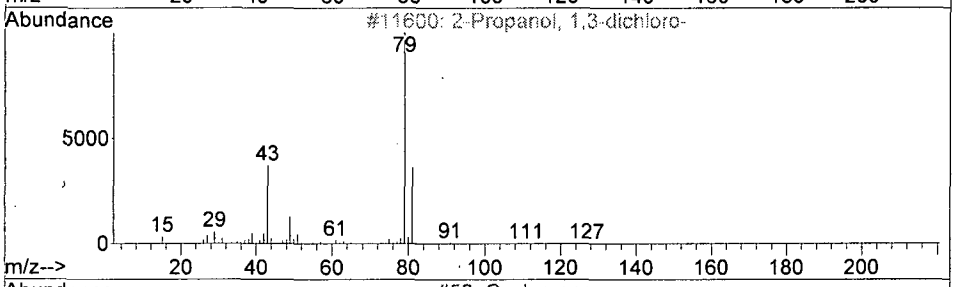
Peak Number 3 Carbonothioic dichloride Concentration Rank 3

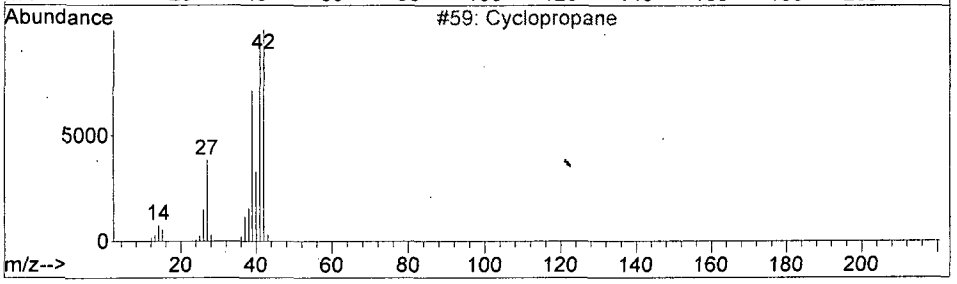
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	8.40 ug/L	18703700	1,4-Difluorobenzene	8.07

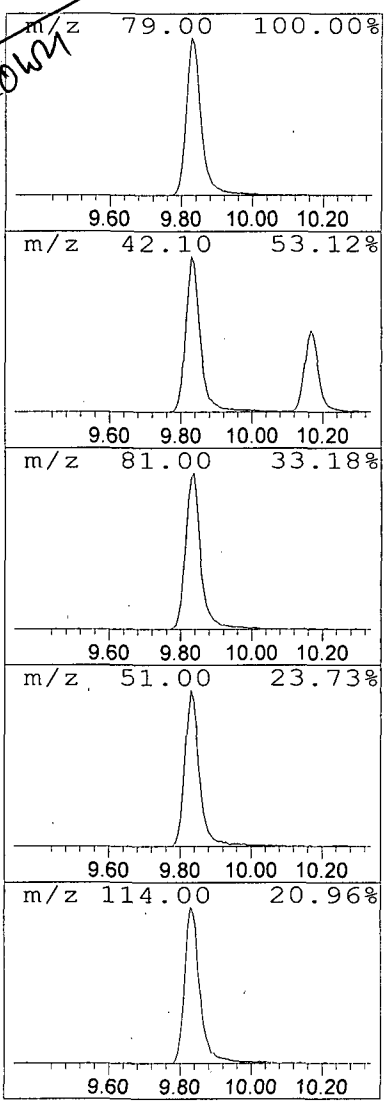
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	32
3	Cyclopropane	42	C3H6	000075-19-4	9
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
5	Cyclopentene,3-methylene-	80	C6H8	000930-26-7	9











Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19501.D
Acq On : 11/25/08 23:15 Operator: SB
Sample : F2XE5 Inst : B-5973
Misc : S-2066.02 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
d-Alanine	1.56	1075.1	ug/L	2395120000	1	8.07	11138700	5.0
Acetaldehyde	2.26	14.9	ug/L	33251700	1	8.07	11138700	5.0
Carbonothioic dic...	9.84	8.4	ug/L	18703700	1	8.07	11138700	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17049

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1.0	U
79-20-9	Methyl acetate	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
110-82-7	Cyclohexane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17049

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	210	E
108-87-2	Methylcyclohexane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	0.87	J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17049

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	11	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 11:54:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

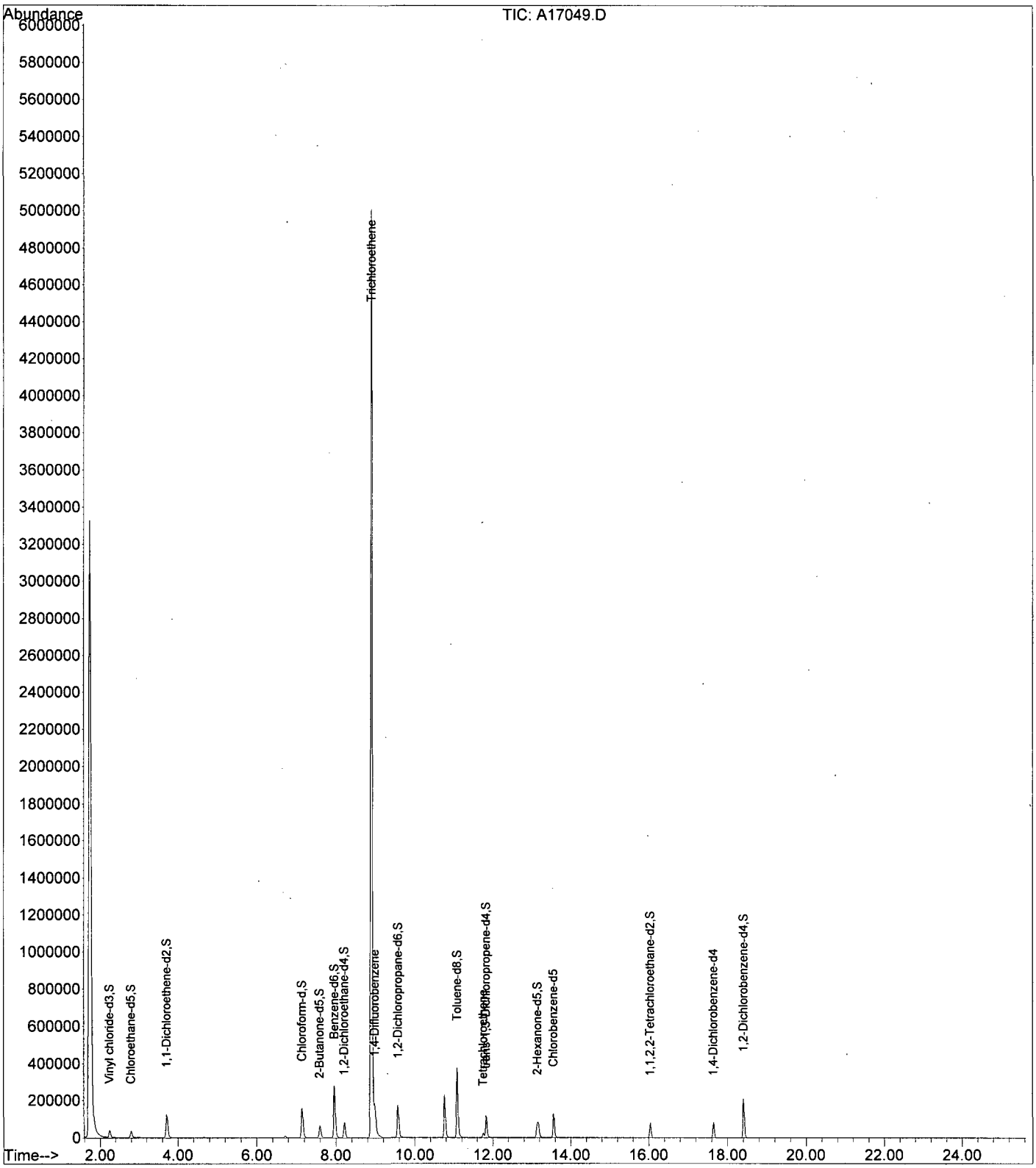
11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1428030	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1094801	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	345619	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	702187	3.77	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 75.40%			
7) Chloroethane-d5	2.80	69	501180	4.55	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 91.00%			
10) 1,1-Dichloroethene-d2	3.72	63	1533535	3.35	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 67.00%			
21) 2-Butanone-d5	7.60	46	1321463	39.50	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 79.00%			
24) Chloroform-d	7.15	84	1958132	3.88	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 77.60%#			
26) 1,2-Dichloroethane-d4	8.22	65	892337	4.42	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 88.40%			
32) Benzene-d6	7.97	84	3790254	4.69	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 93.80%			
36) 1,2-Dichloropropane-d6	9.58	67	1155759	4.82	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 96.40%			
41) Toluene-d8	11.10	98	3735264	5.05	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 101.00%			
43) trans-1,3-Dichloropropene-	11.83	79	937304	4.48	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 89.60%			
47) 2-Hexanone-d5	13.16	63	601712	49.86	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 99.72%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	563422	4.94	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 98.80%			
63) 1,2-Dichlorobenzene-d4	18.42	152	866556	5.52	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 110.40%			
Target Compounds						Qvalue
34) Trichloroethene	8.91	95	24851452	106.82	ug/L	95
46) Tetrachloroethene	11.76	164	77142	0.44	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

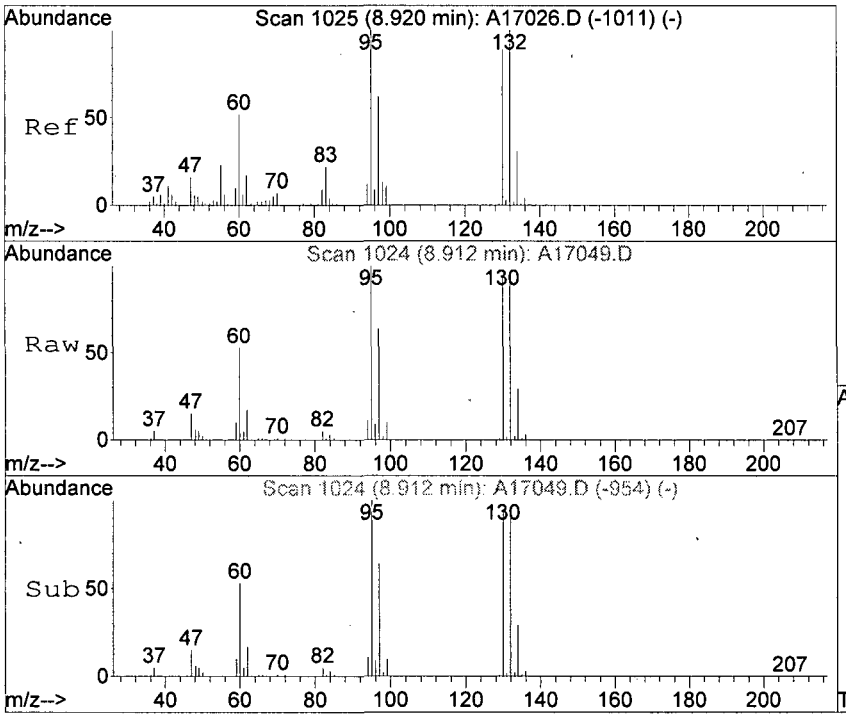
Data File: C:\MSDCHEM\1\DATA\A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 11:54:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



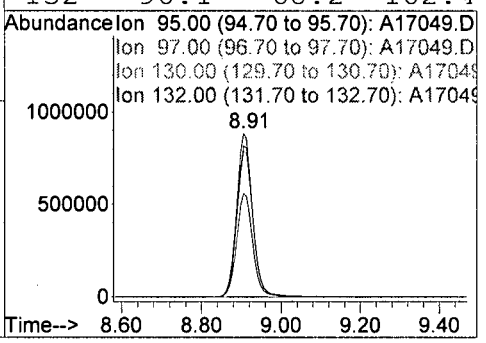
Data File : C:\MSDCHEM\1\DATA\A17049.D
Acq On : 11/27/08 10:15
Sample : F2XE6 2X
Misc : S-2066.03 25ML
MS Integration Params: LSCINT.E

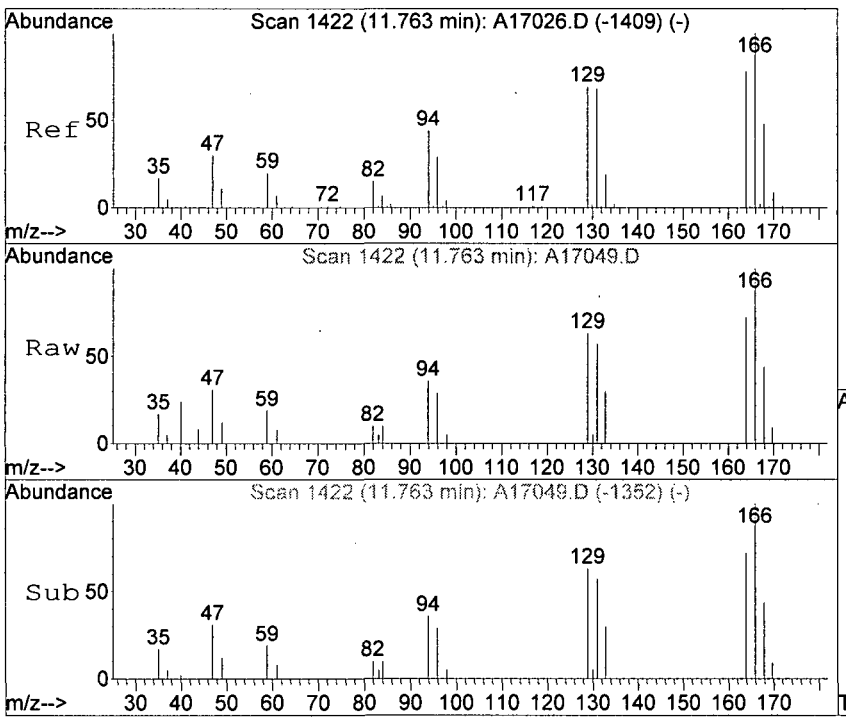
Vial: 1
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 106.82 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.00 min
Integration Range:
Scan=1009 to 1071
R.T.= 8.80 to 9.25 (min)
Tgt Ion: 95 Resp:24851452

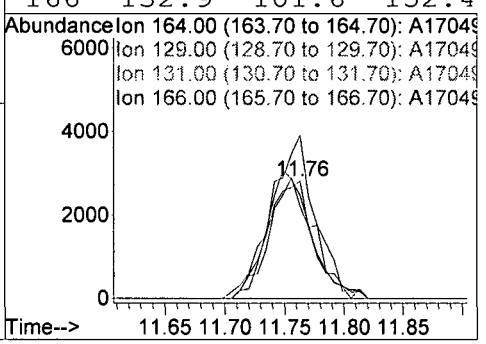
Ion	Ratio	Lower	Upper
95	100		
97	63.4	55.4	83.2
130	93.6	71.8	107.6
132	90.1	68.2	102.4





#46
Tetrachloroethene
Concen: 0.44 ug/L
RT: 11.76 min Scan# 1422
Delta R.T. 0.00 min
Integration Range:
Scan=1411 to 1431
R.T.= 11.68 to 11.83 (min)
Tgt Ion:164 Resp: 77142

Ion	Ratio	Lower	Upper
164	100		
129	100.7	80.6	120.8
131	97.1	79.1	118.7
166	132.9	101.6	152.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.107	70	74	86	BV 3	20	3758	0.00%	0.002%
2	2.244	86	93	104	PV	36443	1041512	0.75%	0.477%
3	2.337	104	106	109	VV	768	9945	0.01%	0.005%
4	2.365	109	110	118	PV 2	522	16911	0.01%	0.008%
5	2.437	118	120	122	PV	633	6883	0.00%	0.003%
6	2.458	122	123	138	VV	573	8170	0.01%	0.004%
7	2.580	138	140	144	PV 2	567	9773	0.01%	0.004%
8	2.616	144	145	150	VV 2	540	11582	0.01%	0.005%
9	2.673	150	153	158	VV 2	810	19930	0.01%	0.009%
10	2.802	158	171	188	VV	35398	1261781	0.91%	0.577%
11	2.960	188	193	197	VV 5	3061	98103	0.07%	0.045%
12	3.003	197	199	208	VV 5	3494	115790	0.08%	0.053%
13	3.074	208	209	211	VV	1674	17811	0.01%	0.008%
14	3.103	211	213	215	VV	1754	23909	0.02%	0.011%
15	3.132	215	217	221	VV 3	1402	25728	0.02%	0.012%
16	3.196	221	226	229	VV 3	1030	30716	0.02%	0.014%
17	3.246	229	233	235	VV 2	1135	22691	0.02%	0.010%
18	3.275	235	237	240	VV 3	869	14181	0.01%	0.006%
19	3.339	240	246	248	VV	1164	23575	0.02%	0.011%
20	3.368	248	250	255	VV 3	781	19496	0.01%	0.009%
21	3.418	255	257	259	VV 2	686	9756	0.01%	0.004%
22	3.447	259	261	262	VV	814	8818	0.01%	0.004%
23	3.468	262	264	268	VV	797	12655	0.01%	0.006%
24	3.504	268	269	272	VV 2	537	8396	0.01%	0.004%
25	3.540	272	274	276	VV 2	540	5316	0.00%	0.002%
26	3.562	276	277	279	VV 2	613	7131	0.01%	0.003%
27	3.590	279	281	282	VV	730	7454	0.01%	0.003%
28	3.612	282	284	287	VV 2	849	12150	0.01%	0.006%
29	3.719	287	299	325	VV 2	123601	4289377	3.08%	1.963%
30	3.920	325	327	332	VV 2	1082	22234	0.02%	0.010%
31	3.977	332	335	340	VV 2	806	19802	0.01%	0.009%
32	4.027	340	342	345	VV	873	12215	0.01%	0.006%
33	4.056	345	346	349	VV 2	711	7807	0.01%	0.004%
34	4.092	349	351	352	VV	472	5055	0.00%	0.002%
35	4.142	352	358	364	VV 2	909	24022	0.02%	0.011%
36	4.192	364	365	374	VV	839	13718	0.01%	0.006%
37	4.271	374	376	378	VV	433	4214	0.00%	0.002%
38	4.299	378	380	381	VV	413	3549	0.00%	0.002%
39	4.321	381	383	387	VV	544	7568	0.01%	0.003%
40	4.364	387	389	391	VV 2	734	8473	0.01%	0.004%
41	4.385	391	392	398	VV 2	606	11982	0.01%	0.005%
42	4.450	398	401	404	VV	601	7978	0.01%	0.004%
43	4.486	404	406	410	VV 2	778	13596	0.01%	0.006%
44	4.529	410	412	413	VV 2	590	5801	0.00%	0.003%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.550	413	415	416	VV	415	4371	0.00%	0.002%
46	4.572	416	418	423	VV 2	585	11101	0.01%	0.005%
47	4.650	423	429	430	VV 3	2966	46123	0.03%	0.021%
48	4.672	430	432	448	VV 4	3262	88645	0.06%	0.041%
49	4.801	448	450	452	VV	628	7550	0.01%	0.003%
50	4.829	452	454	456	VV	609	8089	0.01%	0.004%
51	4.858	456	458	460	VV 2	335	3537	0.00%	0.002%
52	4.901	460	464	468	VV 2	659	14686	0.01%	0.007%
53	4.944	468	470	475	VV 2	666	11691	0.01%	0.005%
54	4.994	475	477	480	VV 2	525	5728	0.00%	0.003%
55	5.044	480	484	487	VV 2	884	19066	0.01%	0.009%
56	5.080	487	489	493	VV 2	931	15289	0.01%	0.007%
57	5.123	493	495	499	VV	659	14340	0.01%	0.007%
58	5.188	499	504	512	VV 3	843	26067	0.02%	0.012%
59	5.252	512	513	516	VV 2	546	5139	0.00%	0.002%
60	5.281	516	517	523	PV 2	501	8660	0.01%	0.004%
61	5.352	523	527	529	VV 2	547	10535	0.01%	0.005%
62	5.381	529	531	537	VV 2	582	13298	0.01%	0.006%
63	5.431	537	538	540	VV	522	5147	0.00%	0.002%
64	5.453	540	541	545	VV 2	638	7968	0.01%	0.004%
65	5.488	545	546	556	VV 2	584	16203	0.01%	0.007%
66	5.574	556	558	560	VV	527	5734	0.00%	0.003%
67	5.596	560	561	564	VV	747	8200	0.01%	0.004%
68	5.639	564	567	569	VV 2	573	7652	0.01%	0.004%
69	5.675	569	572	577	VV	628	11103	0.01%	0.005%
70	5.789	577	588	592	VV 4	1033	34931	0.03%	0.016%
71	5.832	592	594	596	VV 2	659	8639	0.01%	0.004%
72	5.861	596	598	603	VV 2	552	12877	0.01%	0.006%
73	5.918	603	606	613	VV 2	623	13369	0.01%	0.006%
74	5.983	613	615	618	VV 2	622	7201	0.01%	0.003%
75	6.026	618	621	623	VV	767	7940	0.01%	0.004%
76	6.054	623	625	627	PV 2	537	5627	0.00%	0.003%
77	6.083	627	629	631	VV 2	481	5678	0.00%	0.003%
78	6.112	631	633	635	VV	831	8634	0.01%	0.004%
79	6.140	635	637	642	VV 2	443	8743	0.01%	0.004%
80	6.190	642	644	646	VV	506	5190	0.00%	0.002%
81	6.219	646	648	654	VV 2	619	13183	0.01%	0.006%
82	6.276	654	656	662	VV 2	637	14979	0.01%	0.007%
83	6.341	662	665	668	VV 2	529	9386	0.01%	0.004%
84	6.377	668	670	673	VV	469	4983	0.00%	0.002%
85	6.412	673	675	680	VV 2	546	10756	0.01%	0.005%
86	6.463	680	682	684	VV	700	5973	0.00%	0.003%
87	6.491	684	686	690	VV 2	716	10487	0.01%	0.005%
88	6.534	690	692	693	VV 2	414	4463	0.00%	0.002%
89	6.591	693	700	704	VV 2	675	15805	0.01%	0.007%
90	6.634	704	706	708	VV 2	491	5605	0.00%	0.003%
91	6.728	708	719	729	VV 3	9161	299473	0.22%	0.137%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	6.814	729	731	735	VV	2	762	10560	0.01%	0.005%
93	6.857	735	737	739	VV	2	507	6204	0.00%	0.003%
94	6.892	739	742	745	VV	2	558	10607	0.01%	0.005%
95	6.935	745	748	751	VV	2	631	8285	0.01%	0.004%
96	6.985	751	755	758	VV		634	10418	0.01%	0.005%
97	7.021	758	760	762	VV		488	4948	0.00%	0.002%
98	7.071	762	767	768	VV	2	440	7653	0.01%	0.004%
99	7.150	768	778	798	VV		159711	5343704	3.84%	2.445%
100	7.308	798	800	803	VV	2	1068	15620	0.01%	0.007%
101	7.351	803	806	811	VV	3	815	23160	0.02%	0.011%
102	7.401	811	813	816	VV		758	12058	0.01%	0.006%
103	7.437	816	818	819	VV		518	6665	0.00%	0.003%
104	7.458	819	821	823	VV		615	7320	0.01%	0.003%
105	7.487	823	825	829	VV	2	897	11574	0.01%	0.005%
106	7.594	829	840	860	VV	2	66457	2255878	1.62%	1.032%
107	7.752	860	862	867	VV	4	1528	40347	0.03%	0.018%
108	7.802	867	869	872	VV	3	1299	20062	0.01%	0.009%
109	7.838	872	874	878	VV	2	1302	25950	0.02%	0.012%
110	7.974	878	893	907	VV		275886	8461893	6.08%	3.872%
111	8.089	907	909	918	VV	4	2958	75650	0.05%	0.035%
112	8.217	918	927	946	VV	2	82488	2590027	1.86%	1.185%
113	8.361	946	947	959	VV	3	864	33157	0.02%	0.015%
114	8.475	959	963	965	VV		628	11995	0.01%	0.005%
115	8.504	965	967	975	VV	2	794	20565	0.01%	0.009%
116	8.576	975	977	988	VV	3	666	23718	0.02%	0.011%
117	8.669	988	990	997	VV	2	603	14294	0.01%	0.007%
118	8.733	997	999	1004	VV	2	507	9429	0.01%	0.004%
119	8.783	1004	1006	1009	VV	2	703	9298	0.01%	0.004%
120	8.812	1009	1010	1012	VV		625	5018	0.00%	0.002%
121	8.912	1012	1024	1034	PV		4939287	139123700	100.00%	63.657%
122	8.991	1034	1035	1065	VV		184371	5468235	3.93%	2.502%
123	9.235	1065	1069	1071	VV	4	1691	32903	0.02%	0.015%
124	9.285	1071	1076	1079	VV	3	1714	39062	0.03%	0.018%
125	9.321	1079	1081	1084	VV	2	1315	18258	0.01%	0.008%
126	9.364	1084	1087	1089	VV	3	795	13970	0.01%	0.006%
127	9.392	1089	1091	1093	VV		990	10775	0.01%	0.005%
128	9.421	1093	1095	1105	VV	2	839	36480	0.03%	0.017%
129	9.578	1105	1117	1142	VV	2	171199	5455412	3.92%	2.496%
130	9.772	1142	1144	1149	VV	2	996	23342	0.02%	0.011%
131	9.815	1149	1150	1152	VV	2	878	10608	0.01%	0.005%
132	9.858	1152	1156	1163	VV	3	738	28043	0.02%	0.013%
133	9.922	1163	1165	1173	VV	3	829	24612	0.02%	0.011%
134	9.994	1173	1175	1178	VV		629	10398	0.01%	0.005%
135	10.030	1178	1180	1182	VV		896	8736	0.01%	0.004%
136	10.058	1182	1184	1188	VV	2	832	15278	0.01%	0.007%
137	10.152	1188	1197	1202	VV	5	1918	65056	0.05%	0.030%
138	10.195	1202	1203	1209	VV	3	759	18825	0.01%	0.009%
139	10.273	1209	1214	1215	VV	2	829	18881	0.01%	0.009%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.295	1215	1217	1219	VV 2	846	9882	0.01%	0.005%
141	10.316	1219	1220	1223	VV	924	9457	0.01%	0.004%
142	10.366	1223	1227	1233	VV 2	586	21735	0.02%	0.010%
143	10.445	1233	1238	1243	VV 2	804	20376	0.01%	0.009%
144	10.488	1243	1244	1246	VV	687	7376	0.01%	0.003%
145	10.524	1246	1249	1252	VV	851	13849	0.01%	0.006%
146	10.567	1252	1255	1256	VV 2	627	8323	0.01%	0.004%
147	10.624	1256	1263	1274	VV 5	4285	130943	0.09%	0.060%
148	10.768	1274	1283	1307	VV	224358	6232211	4.48%	2.852%
149	10.947	1307	1308	1311	VV 2	1002	13416	0.01%	0.006%
150	11.097	1311	1329	1353	VV	371333	10246416	7.36%	4.688%
151	11.283	1353	1355	1360	VV	790	20065	0.01%	0.009%
152	11.333	1360	1362	1368	VV 2	1801	30181	0.02%	0.014%
153	11.391	1368	1370	1376	VV 2	815	21961	0.02%	0.010%
154	11.448	1376	1378	1380	VV	631	7927	0.01%	0.004%
155	11.491	1380	1384	1386	VV 2	815	15180	0.01%	0.007%
156	11.520	1386	1388	1393	VV	911	17577	0.01%	0.008%
157	11.570	1393	1395	1403	VV 3	874	25361	0.02%	0.012%
158	11.656	1403	1407	1413	VV 2	905	25037	0.02%	0.011%
159	11.756	1413	1421	1425	VV 2	23479	617076	0.44%	0.282%
160	11.835	1425	1432	1446	VV 2	119080	3332358	2.40%	1.525%
161	11.942	1446	1447	1450	VV	1400	21528	0.02%	0.010%
162	11.978	1450	1452	1466	VV 2	994	58432	0.04%	0.027%
163	12.100	1466	1469	1472	VV	1356	20569	0.01%	0.009%
164	12.164	1472	1478	1479	VV 3	871	16121	0.01%	0.007%
165	12.193	1479	1482	1488	VV 3	1185	27327	0.02%	0.013%
166	12.243	1488	1489	1493	VV 2	715	10734	0.01%	0.005%
167	12.286	1493	1495	1496	VV	790	7830	0.01%	0.004%
168	12.315	1496	1499	1501	VV	876	13775	0.01%	0.006%
169	12.372	1501	1507	1510	VV 3	921	26102	0.02%	0.012%
170	12.437	1510	1516	1524	VV 2	722	30459	0.02%	0.014%
171	12.508	1524	1526	1529	VV 2	509	7846	0.01%	0.004%
172	12.551	1529	1532	1534	VV 3	915	15078	0.01%	0.007%
173	12.580	1534	1536	1538	VV	880	9501	0.01%	0.004%
174	12.601	1538	1539	1542	VV	889	9954	0.01%	0.005%
175	12.637	1542	1544	1546	VV 2	867	9425	0.01%	0.004%
176	12.687	1546	1551	1553	VV 3	787	18212	0.01%	0.008%
177	12.737	1553	1558	1562	VV 2	775	20828	0.01%	0.010%
178	12.795	1562	1566	1571	VV	873	22274	0.02%	0.010%
179	12.859	1571	1575	1582	VV 2	941	29347	0.02%	0.013%
180	12.916	1582	1583	1586	VV 2	617	6580	0.00%	0.003%
181	12.967	1586	1590	1595	VV 3	880	21806	0.02%	0.010%
182	13.038	1595	1600	1604	VV 3	796	24531	0.02%	0.011%
183	13.153	1604	1616	1649	VV 3	82624	3902794	2.81%	1.786%
184	13.411	1649	1652	1655	VV 2	799	15134	0.01%	0.007%
185	13.475	1655	1661	1665	VV	695	23960	0.02%	0.011%
186	13.568	1665	1674	1689	VV	129184	3633790	2.61%	1.663%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.683	1689	1690	1697	VV 3	1217	27383	0.02%	0.013%
188	13.762	1697	1701	1713	VV 2	789	37406	0.03%	0.017%
189	13.869	1713	1716	1720	VV	807	14910	0.01%	0.007%
190	13.926	1720	1724	1731	VV 4	1108	34110	0.02%	0.016%
191	14.005	1731	1735	1742	VV 2	787	21830	0.02%	0.010%
192	14.070	1742	1744	1745	VV	840	7872	0.01%	0.004%
193	14.091	1745	1747	1751	VV 2	686	11252	0.01%	0.005%
194	14.134	1751	1753	1756	VV 2	778	12777	0.01%	0.006%
195	14.170	1756	1758	1768	VV 2	705	25132	0.02%	0.011%
196	14.263	1768	1771	1776	VV 3	798	18289	0.01%	0.008%
197	14.342	1776	1782	1783	VV	761	17545	0.01%	0.008%
198	14.363	1783	1785	1787	VV	709	8408	0.01%	0.004%
199	14.428	1787	1794	1799	VV 2	749	27207	0.02%	0.012%
200	14.478	1799	1801	1807	VV 2	784	17928	0.01%	0.008%
201	14.557	1807	1812	1814	VV 2	579	13337	0.01%	0.006%
202	14.585	1814	1816	1819	VV 2	796	13923	0.01%	0.006%
203	14.643	1819	1824	1827	VV 2	945	18946	0.01%	0.009%
204	14.707	1827	1833	1835	VV 2	900	21391	0.02%	0.010%
205	14.736	1835	1837	1838	VV 2	603	6578	0.00%	0.003%
206	14.772	1838	1842	1844	VV 2	911	16739	0.01%	0.008%
207	14.800	1844	1846	1848	VV 2	863	9815	0.01%	0.004%
208	14.843	1848	1852	1856	VV	592	13746	0.01%	0.006%
209	14.893	1856	1859	1860	VV	722	7980	0.01%	0.004%
210	14.915	1860	1862	1864	VV	743	9418	0.01%	0.004%
211	14.965	1864	1869	1872	VV 2	775	19960	0.01%	0.009%
212	15.030	1872	1878	1880	VV 2	732	17092	0.01%	0.008%
213	15.087	1880	1886	1889	VV 2	728	19009	0.01%	0.009%
214	15.201	1889	1902	1904	VV 2	794	30901	0.02%	0.014%
215	15.230	1904	1906	1913	VV 2	818	21277	0.02%	0.010%
216	15.287	1913	1914	1917	VV 2	695	10105	0.01%	0.005%
217	15.330	1917	1920	1922	PV	953	11243	0.01%	0.005%
218	15.373	1922	1926	1929	VV 2	852	16864	0.01%	0.008%
219	15.416	1929	1932	1937	VV 2	943	17145	0.01%	0.008%
220	15.467	1937	1939	1946	VV 2	747	21640	0.02%	0.010%
221	15.531	1946	1948	1949	VV	519	6435	0.00%	0.003%
222	15.574	1949	1954	1958	VV	698	19306	0.01%	0.009%
223	15.617	1958	1960	1962	VV 2	527	6198	0.00%	0.003%
224	15.646	1962	1964	1967	VV	540	6580	0.00%	0.003%
225	15.703	1967	1972	1975	VV	723	12984	0.01%	0.006%
226	15.739	1975	1977	1986	VV	566	21461	0.02%	0.010%
227	15.832	1986	1990	1991	VV	532	9276	0.01%	0.004%
228	15.846	1991	1992	1996	VV	549	10625	0.01%	0.005%
229	15.896	1996	1999	2001	VV 2	838	11937	0.01%	0.005%
230	15.954	2001	2007	2011	VV 2	731	18615	0.01%	0.009%
231	16.040	2011	2019	2029	VV	76829	2023677	1.45%	0.926%
232	16.147	2029	2034	2037	VV 2	670	15829	0.01%	0.007%
233	16.204	2037	2042	2044	VV	893	16540	0.01%	0.008%
234	16.233	2044	2046	2048	VV 2	801	9412	0.01%	0.004%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.262	2048	2050	2052	VV		712	7694	0.01%	0.004%
236	16.283	2052	2053	2056	VV		530	8422	0.01%	0.004%
237	16.319	2056	2058	2059	VV	2	475	3473	0.00%	0.002%
238	16.340	2059	2061	2066	VV	2	625	12889	0.01%	0.006%
239	16.398	2066	2069	2074	VV	2	1023	21713	0.02%	0.010%
240	16.448	2074	2076	2078	VV		639	7047	0.01%	0.003%
241	16.484	2078	2081	2083	VV		615	10335	0.01%	0.005%
242	16.527	2083	2087	2089	VV		497	10014	0.01%	0.005%
243	16.555	2089	2091	2093	VV		787	11520	0.01%	0.005%
244	16.598	2093	2097	2100	VV	2	724	17400	0.01%	0.008%
245	16.634	2100	2102	2104	VV		698	7816	0.01%	0.004%
246	16.677	2104	2108	2111	VV	2	693	11816	0.01%	0.005%
247	16.720	2111	2114	2116	VV	2	412	6212	0.00%	0.003%
248	16.770	2116	2121	2122	VV	2	523	11657	0.01%	0.005%
249	16.792	2122	2124	2127	VV	2	582	9962	0.01%	0.005%
250	16.827	2127	2129	2132	VV	2	799	9955	0.01%	0.005%
251	16.856	2132	2133	2135	VV		708	6111	0.00%	0.003%
252	16.892	2135	2138	2142	VV	2	818	14888	0.01%	0.007%
253	16.971	2142	2149	2151	VV	2	877	17598	0.01%	0.008%
254	16.999	2151	2153	2158	VV	2	779	19242	0.01%	0.009%
255	17.050	2158	2160	2163	VV	2	797	9946	0.01%	0.005%
256	17.085	2163	2165	2170	VV	2	806	14464	0.01%	0.007%
257	17.135	2170	2172	2173	VV		515	4231	0.00%	0.002%
258	17.171	2173	2177	2178	VV		470	8411	0.01%	0.004%
259	17.193	2178	2180	2181	VV	2	420	5219	0.00%	0.002%
260	17.221	2181	2184	2187	VV	2	686	12217	0.01%	0.006%
261	17.272	2187	2191	2193	VV	2	749	10521	0.01%	0.005%
262	17.293	2193	2194	2199	VV	2	704	14225	0.01%	0.007%
263	17.343	2199	2201	2203	VV		518	6654	0.00%	0.003%
264	17.386	2203	2207	2210	VV	2	766	11678	0.01%	0.005%
265	17.458	2210	2217	2221	VV	2	660	20218	0.01%	0.009%
266	17.508	2221	2224	2226	VV		804	12244	0.01%	0.006%
267	17.529	2226	2227	2229	VV		547	6078	0.00%	0.003%
268	17.558	2229	2231	2234	VV		647	10745	0.01%	0.005%
269	17.651	2234	2244	2253	VV	2	79728	2092873	1.50%	0.958%
270	17.730	2253	2255	2257	VV		871	8630	0.01%	0.004%
271	17.823	2257	2268	2270	VV	2	842	32358	0.02%	0.015%
272	17.852	2270	2272	2274	VV	2	935	11827	0.01%	0.005%
273	17.895	2274	2278	2287	VV	2	963	28233	0.02%	0.013%
274	17.966	2287	2288	2293	VV	2	627	12303	0.01%	0.006%
275	18.017	2293	2295	2298	VV	2	761	12711	0.01%	0.006%
276	18.060	2298	2301	2307	VV	2	710	16289	0.01%	0.007%
277	18.110	2307	2308	2310	VV		730	6308	0.00%	0.003%
278	18.145	2310	2313	2320	VV	2	613	15411	0.01%	0.007%
279	18.231	2320	2325	2329	VV	2	589	15875	0.01%	0.007%
280	18.282	2329	2332	2337	VV	2	692	12410	0.01%	0.006%
281	18.418	2337	2351	2371	VV	2	207398	5502560	3.96%	2.518%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.582	2371	2374	2377	VV 2	677	16470	0.01%	0.008%
283	18.618	2377	2379	2382	VV	773	12479	0.01%	0.006%
284	18.654	2382	2384	2386	VV	780	8575	0.01%	0.004%
285	18.683	2386	2388	2390	VV 2	796	11411	0.01%	0.005%
286	18.711	2390	2392	2394	VV 2	618	8382	0.01%	0.004%
287	18.740	2394	2396	2401	VV 2	673	14446	0.01%	0.007%
288	18.790	2401	2403	2407	VV 2	649	10540	0.01%	0.005%
289	18.826	2407	2408	2410	VV	563	5726	0.00%	0.003%
290	18.862	2410	2413	2415	VV	765	12921	0.01%	0.006%
291	18.890	2415	2417	2419	VV 2	663	9074	0.01%	0.004%
292	18.926	2419	2422	2428	VV 2	648	18955	0.01%	0.009%
293	18.976	2428	2429	2434	VV 2	750	12493	0.01%	0.006%
294	19.034	2434	2437	2439	VV 2	693	10094	0.01%	0.005%
295	19.084	2439	2444	2447	VV 2	647	16150	0.01%	0.007%
296	19.141	2447	2452	2455	VV 2	716	16603	0.01%	0.008%
297	19.177	2455	2457	2460	VV	675	9416	0.01%	0.004%
298	19.213	2460	2462	2467	VV	773	14323	0.01%	0.007%
299	19.263	2467	2469	2471	VV	818	8523	0.01%	0.004%
300	19.299	2471	2474	2478	VV 2	748	15291	0.01%	0.007%
301	19.349	2478	2481	2489	VV	822	21124	0.02%	0.010%
302	19.413	2489	2490	2495	VV	610	10882	0.01%	0.005%
303	19.478	2495	2499	2501	VV 2	518	9148	0.01%	0.004%
304	19.514	2501	2504	2506	VV 2	623	10477	0.01%	0.005%
305	19.549	2506	2509	2511	VV	559	7915	0.01%	0.004%
306	19.571	2511	2512	2514	VV	356	3142	0.00%	0.001%
307	19.607	2514	2517	2519	VV	625	9271	0.01%	0.004%
308	19.635	2519	2521	2522	VV 2	718	7351	0.01%	0.003%
309	19.657	2522	2524	2528	VV 2	646	12948	0.01%	0.006%
310	19.700	2528	2530	2534	VV 2	788	12171	0.01%	0.006%
311	19.743	2534	2536	2538	VV 2	664	6943	0.00%	0.003%
312	19.771	2538	2540	2543	VV	733	13195	0.01%	0.006%
313	19.807	2543	2545	2546	VV	607	6232	0.00%	0.003%
314	19.829	2546	2548	2552	VV 2	776	12551	0.01%	0.006%
315	19.893	2552	2557	2562	VV 2	704	19993	0.01%	0.009%
316	19.951	2562	2565	2567	VV 2	523	7545	0.01%	0.003%
317	19.979	2567	2569	2571	PV	529	4554	0.00%	0.002%
318	20.022	2571	2575	2577	VV 2	738	11792	0.01%	0.005%
319	20.065	2577	2581	2585	VV 2	766	13430	0.01%	0.006%
320	20.108	2585	2587	2590	VV 2	727	10224	0.01%	0.005%
321	20.144	2590	2592	2598	VV 2	756	17896	0.01%	0.008%
322	20.208	2598	2601	2603	VV	582	10405	0.01%	0.005%
323	20.237	2603	2605	2607	VV	438	5789	0.00%	0.003%
324	20.273	2607	2610	2618	VV 2	614	16509	0.01%	0.008%
325	20.345	2618	2620	2624	VV 2	393	8600	0.01%	0.004%
326	20.387	2624	2626	2632	VV 2	664	15792	0.01%	0.007%
327	20.452	2632	2635	2636	VV 2	479	6117	0.00%	0.003%
328	20.495	2636	2641	2643	VV 2	573	12343	0.01%	0.006%
329	20.538	2643	2647	2653	VV 2	674	18665	0.01%	0.009%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.602	2653	2656	2657	VV 2	586	9424	0.01%	0.004%
331	20.624	2657	2659	2661	VV 2	429	5103	0.00%	0.002%
332	20.653	2661	2663	2669	VV 2	658	16272	0.01%	0.007%
333	20.738	2669	2675	2683	VV 2	576	25635	0.02%	0.012%
334	20.875	2683	2694	2701	VV 2	625	32564	0.02%	0.015%
335	20.953	2701	2705	2709	VV	614	15415	0.01%	0.007%
336	20.996	2709	2711	2712	VV 2	523	5357	0.00%	0.002%
337	21.032	2712	2716	2718	VV 2	783	12452	0.01%	0.006%
338	21.068	2718	2721	2724	VV 2	556	9383	0.01%	0.004%
339	21.104	2724	2726	2728	VV	539	5398	0.00%	0.002%
340	21.175	2728	2736	2740	VV 2	724	24665	0.02%	0.011%
341	21.211	2740	2741	2747	VV	698	13579	0.01%	0.006%
342	21.276	2747	2750	2753	VV	589	11118	0.01%	0.005%
343	21.326	2753	2757	2760	VV	592	12343	0.01%	0.006%
344	21.376	2760	2764	2766	VV 2	490	11520	0.01%	0.005%
345	21.405	2766	2768	2771	VV 2	547	10319	0.01%	0.005%
346	21.455	2771	2775	2784	VV 2	733	23548	0.02%	0.011%
347	21.534	2784	2786	2788	VV	692	6792	0.00%	0.003%
348	21.569	2788	2791	2795	VV 2	575	11101	0.01%	0.005%
349	21.620	2795	2798	2801	PV 2	552	8880	0.01%	0.004%
350	21.655	2801	2803	2805	VV 2	578	7931	0.01%	0.004%
351	21.677	2805	2806	2808	VV	606	6487	0.00%	0.003%
352	21.720	2808	2812	2816	VV 2	719	13262	0.01%	0.006%
353	21.763	2816	2818	2823	VV 2	794	15650	0.01%	0.007%
354	21.813	2823	2825	2827	VV	617	6724	0.00%	0.003%
355	21.842	2827	2829	2841	VV 2	499	24006	0.02%	0.011%
356	21.942	2841	2843	2845	VV	676	6630	0.00%	0.003%
357	21.971	2845	2847	2848	VV 2	568	6465	0.00%	0.003%
358	21.992	2848	2850	2851	VV	625	6440	0.00%	0.003%
359	22.014	2851	2853	2855	VV	394	6073	0.00%	0.003%
360	22.049	2855	2858	2861	VV 2	534	8001	0.01%	0.004%
361	22.092	2861	2864	2867	VV 2	479	6382	0.00%	0.003%
362	22.135	2867	2870	2883	VV 2	567	21163	0.02%	0.010%
363	22.250	2883	2886	2887	VV	518	7614	0.01%	0.003%
364	22.271	2887	2889	2894	VV	444	8842	0.01%	0.004%
365	22.343	2894	2899	2901	VV 2	473	10616	0.01%	0.005%
366	22.365	2901	2902	2903	VV	379	3436	0.00%	0.002%
367	22.386	2903	2905	2907	VV	506	5699	0.00%	0.003%
368	22.429	2907	2911	2912	VV	544	7084	0.01%	0.003%
369	22.450	2912	2914	2918	VV 2	689	10066	0.01%	0.005%
370	22.501	2918	2921	2923	VV 2	358	4872	0.00%	0.002%
371	22.529	2923	2925	2926	VV	342	3351	0.00%	0.002%
372	22.551	2926	2928	2938	VV 2	504	15196	0.01%	0.007%
373	22.637	2938	2940	2942	VV	472	6122	0.00%	0.003%
374	22.665	2942	2944	2950	VV 2	508	11670	0.01%	0.005%
375	22.723	2950	2952	2954	VV 2	506	5831	0.00%	0.003%
376	22.744	2954	2955	2960	VV 2	567	7911	0.01%	0.004%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

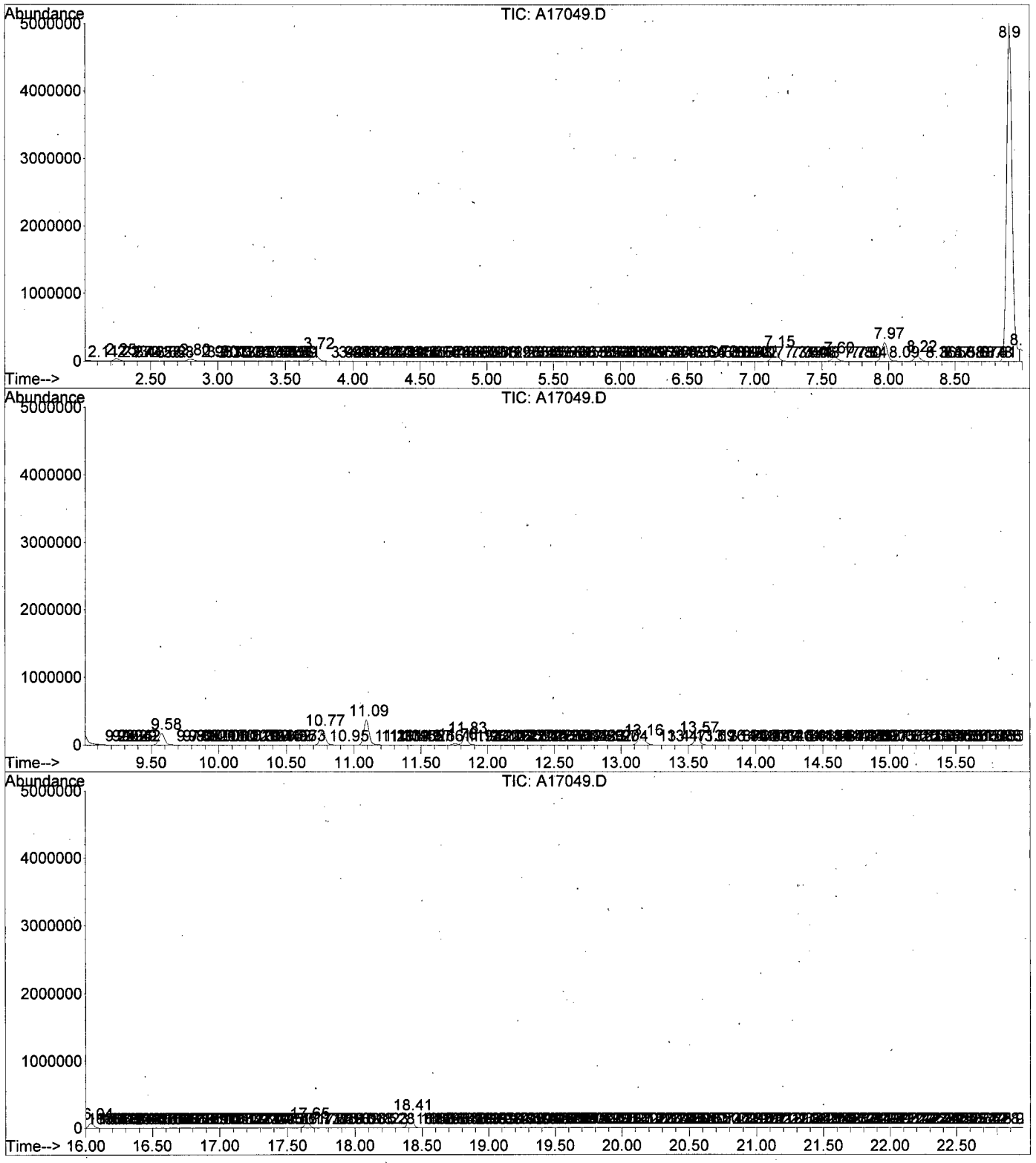
377	22.816	2960	2965	2971	VV	2	813	14052	0.01%	0.006%
378	22.873	2971	2973	2976	VV		431	4524	0.00%	0.002%
379	22.909	2976	2978	2983	PV	2	395	6190	0.00%	0.003%

Sum of corrected areas: 218552901

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

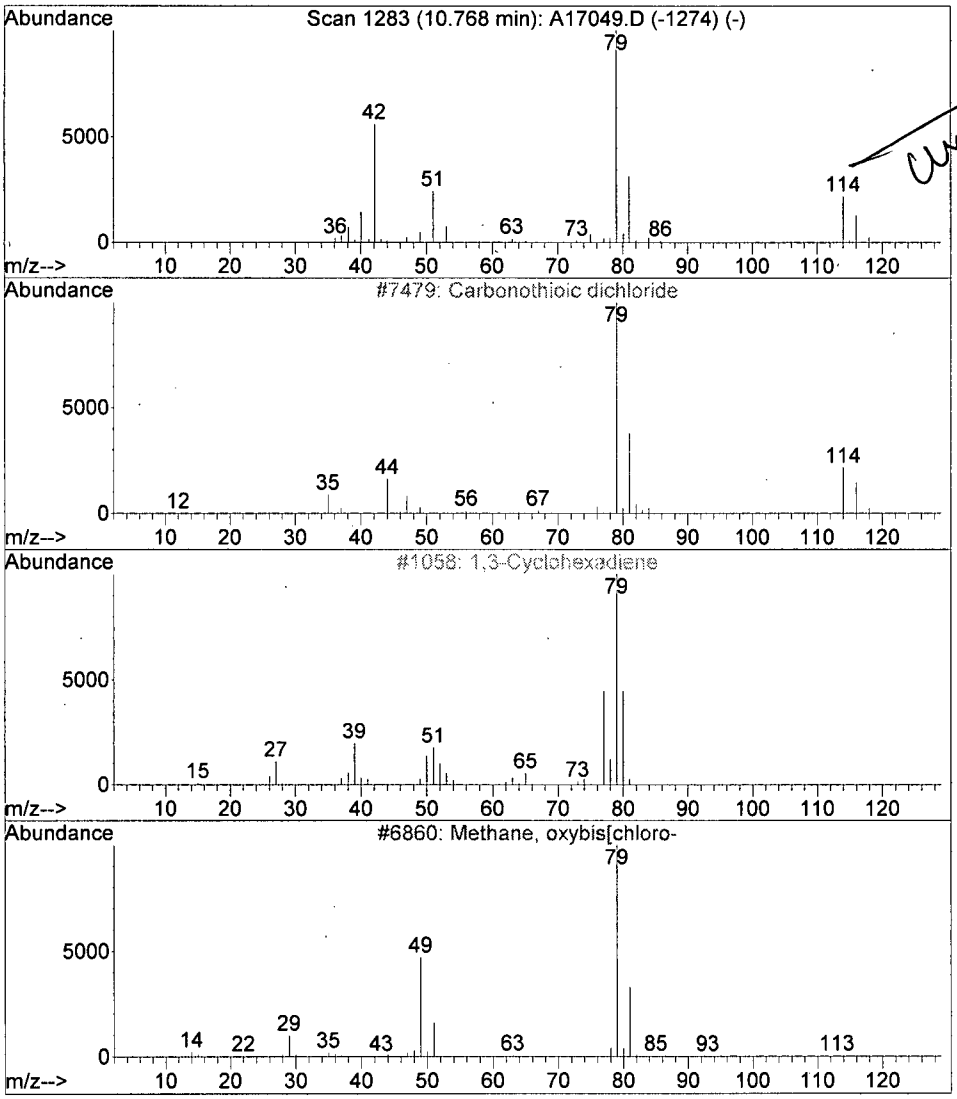
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

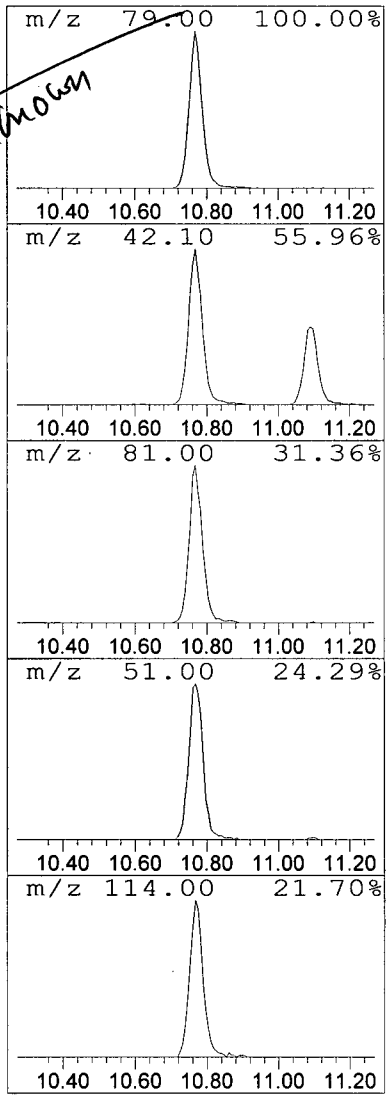
11/28/08

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	5.70 ug/L	6232210	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	1,4-Cyclohexadiene	80	C6H8	000628-41-1	9
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17049.D
Acq On : 11/27/08 10:15 Operator: SB
Sample : F2XE6 2X Inst : A-5973
Misc : S-2066.03 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	5.7	ug/L	6232210	1	9.00	5468230	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE6DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.03DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17030

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	200	U
75-15-0	Carbon disulfide	20	U
79-20-9	Methyl acetate	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	200	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE6DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.03DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17030

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	160	D
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	200	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-Hexanone	200	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
95-47-6	o-Xylene	20	U
179601-23-1	m,p-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE6DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.03DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17030

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	250	DJ
02		Unknown-02	10.78	59	DJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

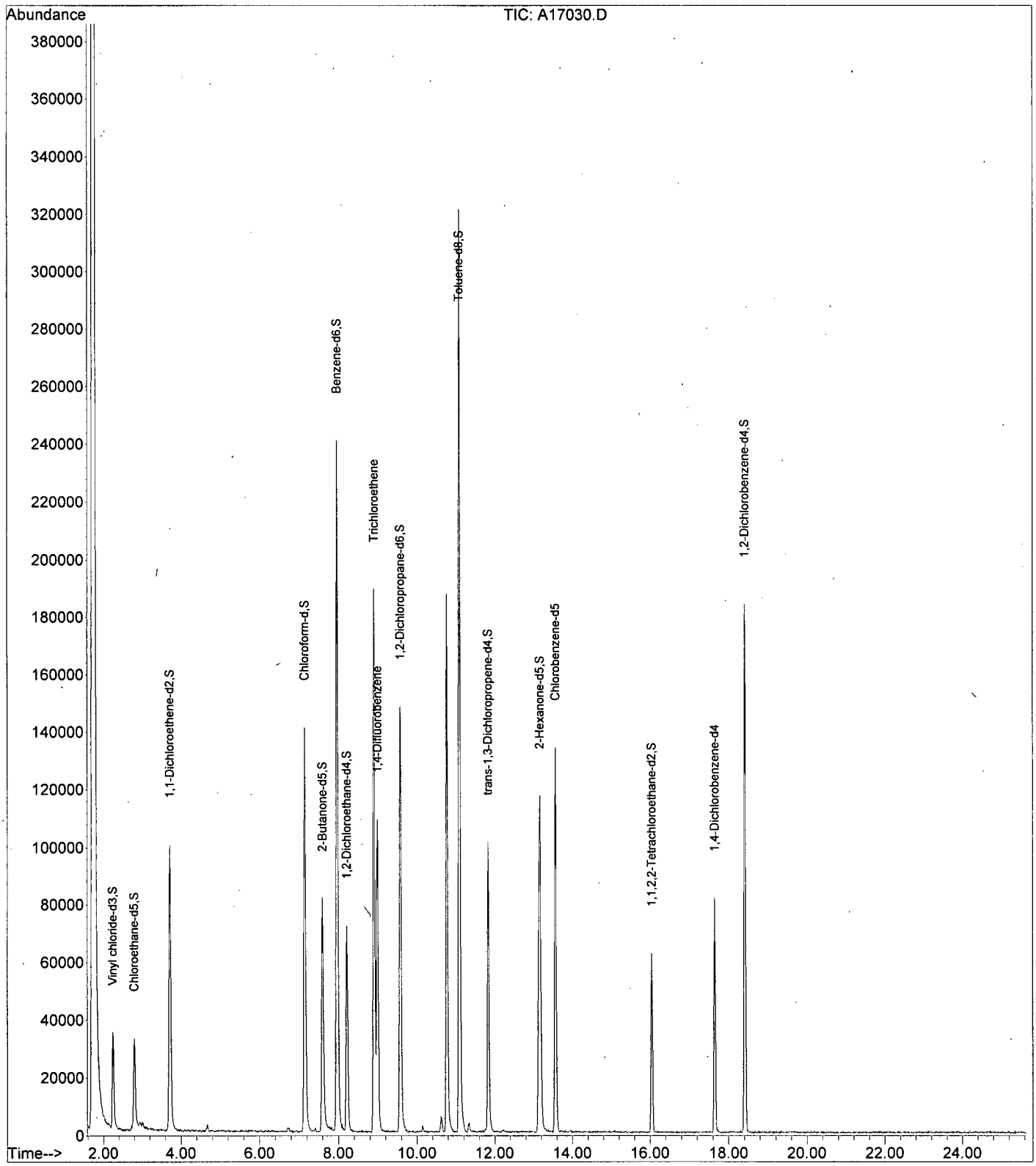
Quant Time: Nov 28 11:03:40 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1275938	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1120619	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	349156	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	623953	3.75	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 75.00%			
7) Chloroethane-d5	2.80	69	469778	4.78	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 95.60%			
10) 1,1-Dichloroethene-d2	3.72	63	1217802	2.97	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 59.40%			
21) 2-Butanone-d5	7.60	46	1638046	54.80	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 109.60%			
24) Chloroform-d	7.16	84	1729370	3.83	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 76.60%#			
26) 1,2-Dichloroethane-d4	8.22	65	780104	4.33	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 86.60%			
32) Benzene-d6	7.97	84	3372534	4.08	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 81.60%			
36) 1,2-Dichloropropane-d6	9.58	67	1011557	4.12	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 82.40%			
41) Toluene-d8	11.10	98	3252468	4.29	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 85.80%			
43) trans-1,3-Dichloropropene-	11.83	79	791883	3.70	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 74.00%			
47) 2-Hexanone-d5	13.16	63	706788	57.21	ug/L	0.03
Spiked Amount 50.000	Range 28 - 135		Recovery = 114.42%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	475822	4.08	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 81.60%			
63) 1,2-Dichlorobenzene-d4	18.42	152	755153	4.76	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 95.20%			
Target Compounds						Qvalue
34) Trichloroethene	8.91	95	931950	3.91	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

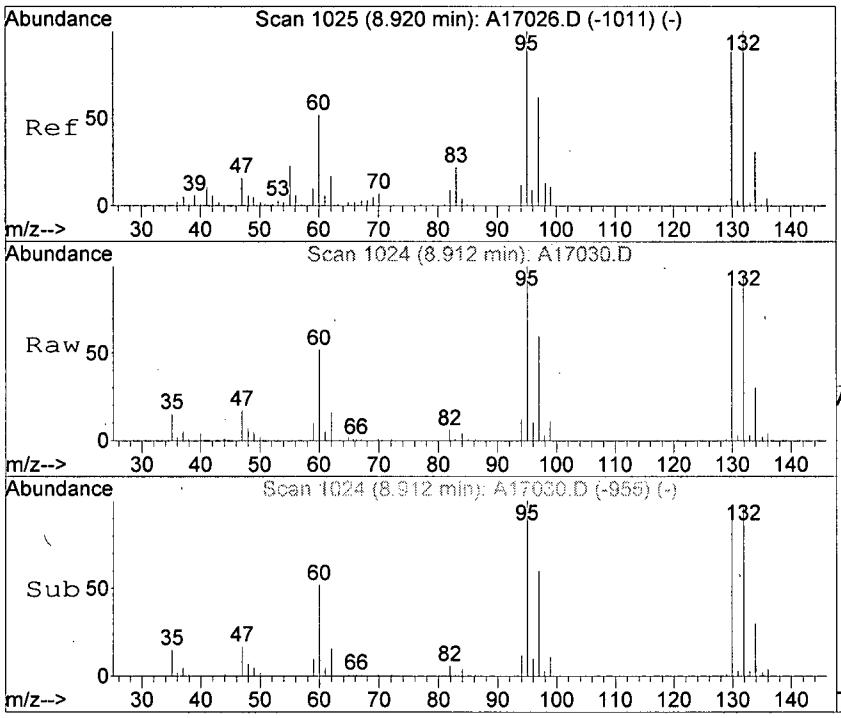
Data File: C:\MSDCHEM\1\DATA\A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 11:03:40 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



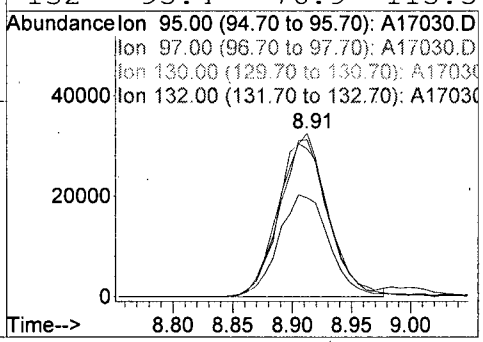
Data File : C:\MSDCHEM\1\DATA\A17030.D
Acq On : 11/26/08 20:10
Sample : F2XE6DL 40X
Misc : S-2066.03DL 25ML
MS Integration Params: LSCINT.E

Vial: 6
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 3.91 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.00 min
Integration Range:
Scan=1012 to 1033
R.T.= 8.83 to 8.98 (min)
Tgt Ion: 95 Resp: 931950

Ion	Ratio	Lower	Upper
95	100		
97	64.6	53.2	79.8
130	97.3	79.5	119.3
132	95.4	76.9	115.3



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.115	73	75	86	PV 2	594	23679	0.27%	0.031%
2	2.244	86	93	113	PV	33144	1017694	11.45%	1.350%
3	2.416	113	117	124	VV 2	743	23551	0.26%	0.031%
4	2.480	124	126	128	VV 2	542	6425	0.07%	0.009%
5	2.509	128	130	133	PV 2	606	7493	0.08%	0.010%
6	2.545	133	135	138	PV	680	6626	0.07%	0.009%
7	2.652	138	150	151	VV 3	873	32465	0.37%	0.043%
8	2.673	151	153	155	VV 2	546	4872	0.05%	0.006%
9	2.709	155	158	159	VV	1100	11594	0.13%	0.015%
10	2.731	159	161	162	VV 2	2032	20144	0.23%	0.027%
11	2.802	162	171	186	VV 2	31975	1143336	12.86%	1.517%
12	2.938	186	190	197	VV 6	3288	122320	1.38%	0.162%
13	3.010	197	200	205	VV 3	3250	82947	0.93%	0.110%
14	3.053	205	206	212	VV 2	1819	40219	0.45%	0.053%
15	3.110	212	214	224	VV	1624	56207	0.63%	0.075%
16	3.196	224	226	232	VV 2	1130	35374	0.40%	0.047%
17	3.268	232	236	243	VV 2	1187	37262	0.42%	0.049%
18	3.332	243	245	248	VV 2	700	13398	0.15%	0.018%
19	3.368	248	250	253	VV 2	852	13150	0.15%	0.017%
20	3.440	253	260	266	VV 3	804	28760	0.32%	0.038%
21	3.490	266	267	269	VV	1054	9789	0.11%	0.013%
22	3.519	269	271	272	VV	598	6986	0.08%	0.009%
23	3.547	272	275	278	VV 2	893	15306	0.17%	0.020%
24	3.583	278	280	282	VV	632	7299	0.08%	0.010%
25	3.619	282	285	288	VV 2	682	13373	0.15%	0.018%
26	3.719	288	299	316	VV	97578	3341919	37.59%	4.433%
27	3.848	316	317	321	VV 3	1402	23709	0.27%	0.031%
28	3.884	321	322	327	VV 2	1145	18772	0.21%	0.025%
29	3.934	327	329	332	VV 2	909	12830	0.14%	0.017%
30	3.984	332	336	340	VV 2	1031	19503	0.22%	0.026%
31	4.049	340	345	347	VV	520	9452	0.11%	0.013%
32	4.099	347	352	355	VV	949	16938	0.19%	0.022%
33	4.128	355	356	358	VV	650	6551	0.07%	0.009%
34	4.149	358	359	361	VV 2	543	5800	0.07%	0.008%
35	4.192	361	365	368	VV 2	886	18196	0.20%	0.024%
36	4.228	368	370	371	VV	607	5630	0.06%	0.007%
37	4.278	371	377	381	VV 2	861	21259	0.24%	0.028%
38	4.321	381	383	386	VV 2	714	12014	0.14%	0.016%
39	4.371	386	390	399	VV	720	25736	0.29%	0.034%
40	4.464	399	403	407	VV 2	650	15858	0.18%	0.021%
41	4.507	407	409	412	VV	549	5657	0.06%	0.008%
42	4.543	412	414	418	VV	296	8265	0.09%	0.011%
43	4.579	418	419	421	VV	628	5453	0.06%	0.007%
44	4.607	421	423	425	VV 2	696	7616	0.09%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.679	425	433	438	VV 3	2671	75722	0.85%	0.100%
46	4.729	438	440	442	VV	583	5820	0.07%	0.008%
47	4.787	442	448	458	VV 2	775	33137	0.37%	0.044%
48	4.872	458	460	462	VV 2	470	4429	0.05%	0.006%
49	4.958	462	472	475	VV 2	870	26858	0.30%	0.036%
50	4.994	475	477	478	VV 2	466	6396	0.07%	0.008%
51	5.023	478	481	485	VV 2	691	15426	0.17%	0.020%
52	5.073	485	488	493	VV 2	853	18863	0.21%	0.025%
53	5.109	493	493	500	VV	549	11925	0.13%	0.016%
54	5.188	500	504	513	VV 2	575	24710	0.28%	0.033%
55	5.274	513	516	520	VV	635	12025	0.14%	0.016%
56	5.309	520	521	525	VV	589	7754	0.09%	0.010%
57	5.352	525	527	529	VV 2	772	8570	0.10%	0.011%
58	5.403	529	534	540	VV 2	661	19610	0.22%	0.026%
59	5.467	540	543	549	VV 2	499	14380	0.16%	0.019%
60	5.524	549	551	554	VV 2	869	9909	0.11%	0.013%
61	5.553	554	555	557	VV	887	8621	0.10%	0.011%
62	5.596	557	561	564	VV 2	564	12150	0.14%	0.016%
63	5.632	564	566	568	VV	472	7497	0.08%	0.010%
64	5.660	568	570	572	VV	906	11405	0.13%	0.015%
65	5.689	572	574	576	VV	596	6521	0.07%	0.009%
66	5.718	576	578	583	VV	870	12712	0.14%	0.017%
67	5.761	583	584	592	VV 3	921	28182	0.32%	0.037%
68	5.832	592	594	597	VV	729	10923	0.12%	0.014%
69	5.882	597	601	603	VV 2	785	16802	0.19%	0.022%
70	5.947	603	610	614	VV 2	722	20525	0.23%	0.027%
71	6.011	614	619	625	VV	571	21989	0.25%	0.029%
72	6.069	625	627	631	VV 2	608	9383	0.11%	0.012%
73	6.119	631	634	636	VV 2	581	9707	0.11%	0.013%
74	6.155	636	639	647	VV 2	741	24219	0.27%	0.032%
75	6.226	647	649	655	VV 2	803	16190	0.18%	0.021%
76	6.284	655	657	665	VV 2	670	26841	0.30%	0.036%
77	6.362	665	668	678	VV 2	782	27055	0.30%	0.036%
78	6.448	678	680	682	VV 2	686	9835	0.11%	0.013%
79	6.477	682	684	686	VV 2	597	6284	0.07%	0.008%
80	6.520	686	690	692	VV	671	12383	0.14%	0.016%
81	6.549	692	694	701	VV 2	715	20323	0.23%	0.027%
82	6.656	701	709	712	VV 2	737	24236	0.27%	0.032%
83	6.728	712	719	725	VV 5	1741	62177	0.70%	0.082%
84	6.778	725	726	728	VV 5	924	10983	0.12%	0.015%
85	6.807	728	730	736	VV	781	17701	0.20%	0.023%
86	6.864	736	738	742	PV	679	11459	0.13%	0.015%
87	6.907	742	744	748	VV 2	735	14720	0.17%	0.020%
88	6.943	748	749	754	VV	911	14393	0.16%	0.019%
89	6.993	754	756	758	VV 2	486	6521	0.07%	0.009%
90	7.021	758	760	763	VV	729	11485	0.13%	0.015%
91	7.072	763	767	768	VV 2	739	13396	0.15%	0.018%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.157	768	779	802	VV	140331	4576446	51.47%	6.071%
93	7.344	802	805	807	VV	802	14009	0.16%	0.019%
94	7.415	807	815	820	VV 2	1795	52528	0.59%	0.070%
95	7.473	820	823	826	VV 2	489	10949	0.12%	0.015%
96	7.602	826	841	860	VV	81610	2785106	31.32%	3.695%
97	7.766	860	864	870	VV 3	2352	71276	0.80%	0.095%
98	7.838	870	874	878	VV 2	1947	48935	0.55%	0.065%
99	7.881	878	880	882	VV 3	1045	16238	0.18%	0.022%
100	7.974	882	893	908	VV	240734	7451439	83.81%	9.885%
101	8.089	908	909	914	VV 2	2881	49156	0.55%	0.065%
102	8.132	914	915	918	VV 2	1510	22159	0.25%	0.029%
103	8.218	918	927	943	VV 2	71068	2242675	25.22%	2.975%
104	8.339	943	944	948	VV	1181	18701	0.21%	0.025%
105	8.382	948	950	954	VV 2	836	16501	0.19%	0.022%
106	8.425	954	956	964	VV 2	742	21932	0.25%	0.029%
107	8.490	964	965	967	VV 2	485	4653	0.05%	0.006%
108	8.526	967	970	971	VV	727	11610	0.13%	0.015%
109	8.590	971	979	985	VV 2	865	31905	0.36%	0.042%
110	8.647	985	987	988	VV 2	436	5294	0.06%	0.007%
111	8.712	988	996	1000	VV 2	779	22895	0.26%	0.030%
112	8.776	1000	1005	1014	VV 2	677	27353	0.31%	0.036%
113	8.912	1014	1024	1030	VV	189598	5362094	60.31%	7.113%
114	8.998	1030	1036	1051	VV	109042	3364465	37.84%	4.463%
115	9.120	1051	1053	1055	VV 2	1141	18612	0.21%	0.025%
116	9.142	1055	1056	1058	VV	883	9803	0.11%	0.013%
117	9.163	1058	1059	1065	VV 2	915	20582	0.23%	0.027%
118	9.220	1065	1067	1070	VV 2	939	14853	0.17%	0.020%
119	9.263	1070	1073	1079	VV 2	923	21218	0.24%	0.028%
120	9.328	1079	1082	1083	VV	595	7812	0.09%	0.010%
121	9.357	1083	1086	1091	VV	736	18643	0.21%	0.025%
122	9.407	1091	1093	1096	VV	680	8572	0.10%	0.011%
123	9.443	1096	1098	1099	VV 2	700	7059	0.08%	0.009%
124	9.471	1099	1102	1105	VV 2	548	11038	0.12%	0.015%
125	9.579	1105	1117	1131	VV 2	148582	4666752	52.49%	6.191%
126	9.686	1131	1132	1137	VV 3	2357	37521	0.42%	0.050%
127	9.736	1137	1139	1145	VV 2	1257	23599	0.27%	0.031%
128	9.801	1145	1148	1152	VV	852	14972	0.17%	0.020%
129	9.844	1152	1154	1157	VV 2	607	10908	0.12%	0.014%
130	9.894	1157	1161	1169	VV	929	23305	0.26%	0.031%
131	9.965	1169	1171	1175	VV	441	8671	0.10%	0.012%
132	10.008	1175	1177	1183	VV 2	727	15715	0.18%	0.021%
133	10.080	1183	1187	1193	VV 2	747	23399	0.26%	0.031%
134	10.152	1193	1197	1204	VV 3	2453	62684	0.71%	0.083%
135	10.230	1204	1208	1210	VV	811	16549	0.19%	0.022%
136	10.259	1210	1212	1214	VV	547	5957	0.07%	0.008%
137	10.288	1214	1216	1220	VV	793	11251	0.13%	0.015%
138	10.338	1220	1223	1226	VV	689	13538	0.15%	0.018%
139	10.374	1226	1228	1231	VV 2	659	12057	0.14%	0.016%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.453	1231	1239	1241	VV 2	586	17409	0.20%	0.023%
141	10.481	1241	1243	1245	VV	685	9096	0.10%	0.012%
142	10.503	1245	1246	1250	VV 2	594	10835	0.12%	0.014%
143	10.553	1250	1253	1255	VV 2	665	9005	0.10%	0.012%
144	10.624	1255	1263	1271	VV 4	5864	180987	2.04%	0.240%
145	10.689	1271	1272	1274	VV	705	9026	0.10%	0.012%
146	10.775	1274	1284	1306	VV 2	187582	5257231	59.13%	6.974%
147	10.954	1306	1309	1311	VV	805	13518	0.15%	0.018%
148	10.983	1311	1313	1319	VV 2	809	15465	0.17%	0.021%
149	11.097	1319	1329	1349	VV	322413	8891255	100.00%	11.795%
150	11.255	1349	1351	1353	VV 2	1018	11590	0.13%	0.015%
151	11.326	1353	1361	1373	VV 4	2956	126167	1.42%	0.167%
152	11.434	1373	1376	1381	VV 2	815	20235	0.23%	0.027%
153	11.477	1381	1382	1389	VV 2	768	18095	0.20%	0.024%
154	11.556	1389	1393	1395	VV	641	11586	0.13%	0.015%
155	11.591	1395	1398	1400	VV	809	11730	0.13%	0.016%
156	11.634	1400	1404	1407	VV 2	995	15228	0.17%	0.020%
157	11.692	1407	1412	1415	VV 3	1007	21304	0.24%	0.028%
158	11.749	1415	1420	1423	VV 3	1407	33614	0.38%	0.045%
159	11.835	1423	1432	1452	VV	100698	2754653	30.98%	3.654%
160	11.993	1452	1454	1459	VV	815	15698	0.18%	0.021%
161	12.036	1459	1460	1462	VV	585	6134	0.07%	0.008%
162	12.064	1462	1464	1465	VV	911	9798	0.11%	0.013%
163	12.093	1465	1468	1477	VV 2	857	25569	0.29%	0.034%
164	12.207	1477	1484	1486	VV 3	1151	31005	0.35%	0.041%
165	12.236	1486	1488	1495	VV 2	1220	26695	0.30%	0.035%
166	12.301	1495	1497	1500	VV 2	748	10825	0.12%	0.014%
167	12.372	1500	1507	1510	VV 2	646	16107	0.18%	0.021%
168	12.408	1510	1512	1514	VV 2	715	8477	0.10%	0.011%
169	12.480	1514	1522	1530	VV 3	818	32920	0.37%	0.044%
170	12.551	1530	1532	1534	VV	673	8488	0.10%	0.011%
171	12.580	1534	1536	1538	VV 2	703	7942	0.09%	0.011%
172	12.601	1538	1539	1543	VV 2	531	9897	0.11%	0.013%
173	12.659	1543	1547	1552	VV	528	16552	0.19%	0.022%
174	12.709	1552	1554	1560	VV 2	768	19922	0.22%	0.026%
175	12.766	1560	1562	1566	VV	578	12970	0.15%	0.017%
176	12.802	1566	1567	1580	VV 2	767	30917	0.35%	0.041%
177	12.924	1580	1584	1589	VV 2	819	21029	0.24%	0.028%
178	12.974	1589	1591	1596	VV	599	11996	0.13%	0.016%
179	13.024	1596	1598	1600	VV 2	741	7379	0.08%	0.010%
180	13.053	1600	1602	1604	VV	443	5619	0.06%	0.007%
181	13.167	1604	1618	1641	VV 2	117134	4791982	53.90%	6.357%
182	13.339	1641	1642	1652	VV 2	1090	38139	0.43%	0.051%
183	13.432	1652	1655	1659	VV 2	823	16661	0.19%	0.022%
184	13.490	1659	1663	1665	VV	954	16375	0.18%	0.022%
185	13.568	1665	1674	1693	VV	134884	3682549	41.42%	4.885%
186	13.719	1693	1695	1697	VV	1035	14065	0.16%	0.019%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.740	1697	1698	1711	VV 3	655	35529	0.40%	0.047%
188	13.841	1711	1712	1716	VV	636	9617	0.11%	0.013%
189	13.898	1716	1720	1723	VV 2	671	15330	0.17%	0.020%
190	13.962	1723	1729	1733	VV 2	1117	29506	0.33%	0.039%
191	14.005	1733	1735	1738	VV 2	827	13643	0.15%	0.018%
192	14.041	1738	1740	1742	VV 2	545	6004	0.07%	0.008%
193	14.077	1742	1745	1748	VV 2	737	13502	0.15%	0.018%
194	14.106	1748	1749	1753	VV 2	648	8853	0.10%	0.012%
195	14.170	1753	1758	1759	VV 2	727	14392	0.16%	0.019%
196	14.184	1759	1760	1762	VV	534	5270	0.06%	0.007%
197	14.213	1762	1764	1766	VV	455	5650	0.06%	0.007%
198	14.256	1766	1770	1771	VV 2	431	9161	0.10%	0.012%
199	14.278	1771	1773	1776	VV	515	7115	0.08%	0.009%
200	14.313	1776	1778	1787	VV 2	658	23077	0.26%	0.031%
201	14.392	1787	1789	1792	VV	524	10985	0.12%	0.015%
202	14.428	1792	1794	1800	VV 2	625	14871	0.17%	0.020%
203	14.500	1800	1804	1808	VV 2	633	14259	0.16%	0.019%
204	14.636	1808	1823	1827	VV 3	914	42384	0.48%	0.056%
205	14.686	1827	1830	1835	VV 3	645	16192	0.18%	0.021%
206	14.736	1835	1837	1844	VV 2	640	16686	0.19%	0.022%
207	14.808	1844	1847	1851	VV	859	16203	0.18%	0.021%
208	14.858	1851	1854	1860	VV	767	16566	0.19%	0.022%
209	14.944	1860	1866	1868	VV	861	15245	0.17%	0.020%
210	14.972	1868	1870	1874	VV	697	9268	0.10%	0.012%
211	15.037	1874	1879	1881	VV 2	589	13495	0.15%	0.018%
212	15.073	1881	1884	1889	VV	823	19246	0.22%	0.026%
213	15.130	1889	1892	1894	VV	631	10844	0.12%	0.014%
214	15.159	1894	1896	1898	VV 2	626	6806	0.08%	0.009%
215	15.202	1898	1902	1909	VV 2	676	20967	0.24%	0.028%
216	15.266	1909	1911	1918	VV	644	11465	0.13%	0.015%
217	15.331	1918	1920	1924	VV 2	665	11025	0.12%	0.015%
218	15.388	1924	1928	1932	VV 2	760	14817	0.17%	0.020%
219	15.459	1932	1938	1944	VV 2	550	17537	0.20%	0.023%
220	15.524	1944	1947	1949	VV	405	5147	0.06%	0.007%
221	15.553	1949	1951	1953	VV 2	602	5780	0.07%	0.008%
222	15.581	1953	1955	1958	VV 2	599	8870	0.10%	0.012%
223	15.610	1958	1959	1963	VV	480	8461	0.10%	0.011%
224	15.660	1963	1966	1968	VV 2	550	8606	0.10%	0.011%
225	15.689	1968	1970	1974	VV 2	512	9301	0.10%	0.012%
226	15.746	1974	1978	1985	VV 2	639	18664	0.21%	0.025%
227	15.810	1985	1987	1992	VV	699	13048	0.15%	0.017%
228	15.861	1992	1994	1996	VV 2	539	6113	0.07%	0.008%
229	15.904	1996	2000	2004	VV 2	566	11839	0.13%	0.016%
230	15.961	2004	2008	2011	VV 2	579	10176	0.11%	0.013%
231	16.047	2011	2020	2031	VV 3	62192	1711917	19.25%	2.271%
232	16.154	2031	2035	2038	VV 2	840	16711	0.19%	0.022%
233	16.190	2038	2040	2044	VV 2	648	11293	0.13%	0.015%
234	16.240	2044	2047	2049	VV	737	9061	0.10%	0.012%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.269	2049	2051	2053	VV 2	537	7428	0.08%	0.010%
236	16.312	2053	2057	2061	VV 2	607	13525	0.15%	0.018%
237	16.355	2061	2063	2070	VV 2	731	16600	0.19%	0.022%
238	16.426	2070	2073	2076	VV	648	12240	0.14%	0.016%
239	16.491	2076	2082	2088	VV 2	711	18358	0.21%	0.024%
240	16.548	2088	2090	2093	VV 2	595	7994	0.09%	0.011%
241	16.591	2093	2096	2097	VV	693	8781	0.10%	0.012%
242	16.613	2097	2099	2110	VV 2	485	17339	0.20%	0.023%
243	16.706	2110	2112	2114	VV	607	5021	0.06%	0.007%
244	16.749	2114	2118	2120	VV 2	506	8661	0.10%	0.011%
245	16.792	2120	2124	2128	VV	583	11647	0.13%	0.015%
246	16.863	2128	2134	2140	VV 2	578	19644	0.22%	0.026%
247	16.921	2140	2142	2145	VV	565	7489	0.08%	0.010%
248	16.964	2145	2148	2150	VV	762	9332	0.10%	0.012%
249	17.043	2150	2159	2161	VV 2	693	18198	0.20%	0.024%
250	17.114	2161	2169	2172	VV	657	15133	0.17%	0.020%
251	17.150	2172	2174	2176	VV 2	521	4878	0.05%	0.006%
252	17.179	2176	2178	2181	VV 2	630	10921	0.12%	0.014%
253	17.214	2181	2183	2188	VV 2	464	11426	0.13%	0.015%
254	17.265	2188	2190	2193	VV	485	7831	0.09%	0.010%
255	17.300	2193	2195	2199	VV 2	398	8046	0.09%	0.011%
256	17.343	2199	2201	2208	VV 2	620	16407	0.18%	0.022%
257	17.401	2208	2209	2221	VV 2	577	25108	0.28%	0.033%
258	17.501	2221	2223	2235	VV	779	27285	0.31%	0.036%
259	17.651	2235	2244	2253	VV	80511	2105973	23.69%	2.794%
260	17.723	2253	2254	2256	VV	1208	13607	0.15%	0.018%
261	17.744	2256	2257	2266	VV 2	837	20078	0.23%	0.027%
262	17.845	2266	2271	2273	VV 2	596	9561	0.11%	0.013%
263	17.888	2273	2277	2279	VV 2	715	10488	0.12%	0.014%
264	17.945	2279	2285	2293	VV 2	519	21185	0.24%	0.028%
265	18.017	2293	2295	2296	VV	570	5152	0.06%	0.007%
266	18.045	2296	2299	2302	VV	897	14206	0.16%	0.019%
267	18.131	2302	2311	2319	VV 2	764	35372	0.40%	0.047%
268	18.203	2319	2321	2330	VV	584	20743	0.23%	0.028%
269	18.303	2330	2335	2340	VV	888	18735	0.21%	0.025%
270	18.418	2340	2351	2366	VV	182144	4752441	53.45%	6.304%
271	18.532	2366	2367	2369	VV	603	6371	0.07%	0.008%
272	18.554	2369	2370	2372	VV	581	6205	0.07%	0.008%
273	18.583	2372	2374	2379	VV 2	566	8845	0.10%	0.012%
274	18.633	2379	2381	2383	VV	560	4322	0.05%	0.006%
275	18.669	2383	2386	2392	VV 2	807	16452	0.19%	0.022%
276	18.740	2392	2396	2400	VV 2	664	10100	0.11%	0.013%
277	18.783	2400	2402	2403	VV	868	6972	0.08%	0.009%
278	18.826	2403	2408	2411	VV 2	537	14652	0.16%	0.019%
279	18.862	2411	2413	2418	VV 2	628	12754	0.14%	0.017%
280	18.912	2418	2420	2425	VV	653	11735	0.13%	0.016%
281	18.962	2425	2427	2431	VV 2	634	10334	0.12%	0.014%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	19.012	2431	2434	2436	VV	435	7359	0.08%	0.010%
283	19.055	2436	2440	2442	VV 2	870	12201	0.14%	0.016%
284	19.084	2442	2444	2445	VV	401	4626	0.05%	0.006%
285	19.127	2445	2450	2452	VV	793	12915	0.15%	0.017%
286	19.163	2452	2455	2458	PV 2	577	10282	0.12%	0.014%
287	19.206	2458	2461	2465	VV 2	837	12213	0.14%	0.016%
288	19.249	2465	2467	2469	VV	478	5859	0.07%	0.008%
289	19.270	2469	2470	2474	VV	506	7178	0.08%	0.010%
290	19.313	2474	2476	2478	VV	628	7245	0.08%	0.010%
291	19.342	2478	2480	2481	VV 2	796	6910	0.08%	0.009%
292	19.363	2481	2483	2484	VV 2	474	5422	0.06%	0.007%
293	19.385	2484	2486	2489	VV 2	602	7543	0.08%	0.010%
294	19.413	2489	2490	2493	VV	350	5847	0.07%	0.008%
295	19.471	2493	2498	2500	VV 2	773	11723	0.13%	0.016%
296	19.542	2500	2508	2511	VV 2	706	19946	0.22%	0.026%
297	19.593	2511	2515	2526	VV	708	31249	0.35%	0.041%
298	19.686	2526	2528	2536	VV 2	692	19728	0.22%	0.026%
299	19.757	2536	2538	2545	VV 2	655	13672	0.15%	0.018%
300	19.829	2545	2548	2554	VV 2	410	12067	0.14%	0.016%
301	19.908	2554	2559	2564	VV 2	558	15848	0.18%	0.021%
302	19.958	2564	2566	2570	VV	468	7180	0.08%	0.010%
303	20.015	2570	2574	2584	VV 2	632	22038	0.25%	0.029%
304	20.101	2584	2586	2593	VV	685	15057	0.17%	0.020%
305	20.173	2593	2596	2598	VV	771	9432	0.11%	0.013%
306	20.209	2598	2601	2607	VV 2	596	17805	0.20%	0.024%
307	20.266	2607	2609	2610	VV	519	4416	0.05%	0.006%
308	20.287	2610	2612	2617	VV 2	559	10757	0.12%	0.014%
309	20.352	2617	2621	2623	VV 2	600	7679	0.09%	0.010%
310	20.380	2623	2625	2627	VV	595	5871	0.07%	0.008%
311	20.416	2627	2630	2636	VV 2	696	11653	0.13%	0.015%
312	20.466	2636	2637	2639	VV	349	3437	0.04%	0.005%
313	20.509	2639	2643	2647	VV 2	547	12656	0.14%	0.017%
314	20.581	2647	2653	2659	VV 2	495	17933	0.20%	0.024%
315	20.653	2659	2663	2667	VV 2	473	9887	0.11%	0.013%
316	20.696	2667	2669	2673	VV 2	425	5923	0.07%	0.008%
317	20.739	2673	2675	2678	VV	593	6295	0.07%	0.008%
318	20.774	2678	2680	2691	VV 2	480	15757	0.18%	0.021%
319	20.882	2691	2695	2699	VV 2	453	10630	0.12%	0.014%
320	20.918	2699	2700	2702	VV	666	5653	0.06%	0.007%
321	20.946	2702	2704	2705	VV 2	302	3296	0.04%	0.004%
322	20.968	2705	2707	2712	VV 2	420	7487	0.08%	0.010%
323	21.018	2712	2714	2718	VV 2	245	6899	0.08%	0.009%
324	21.082	2718	2723	2727	VV 2	436	12053	0.14%	0.016%
325	21.125	2727	2729	2732	VV	394	5041	0.06%	0.007%
326	21.197	2732	2739	2742	VV 2	566	13357	0.15%	0.018%
327	21.233	2742	2744	2745	VV	540	4871	0.05%	0.006%
328	21.254	2745	2747	2754	VV	550	14634	0.16%	0.019%
329	21.319	2754	2756	2758	VV	402	3417	0.04%	0.005%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

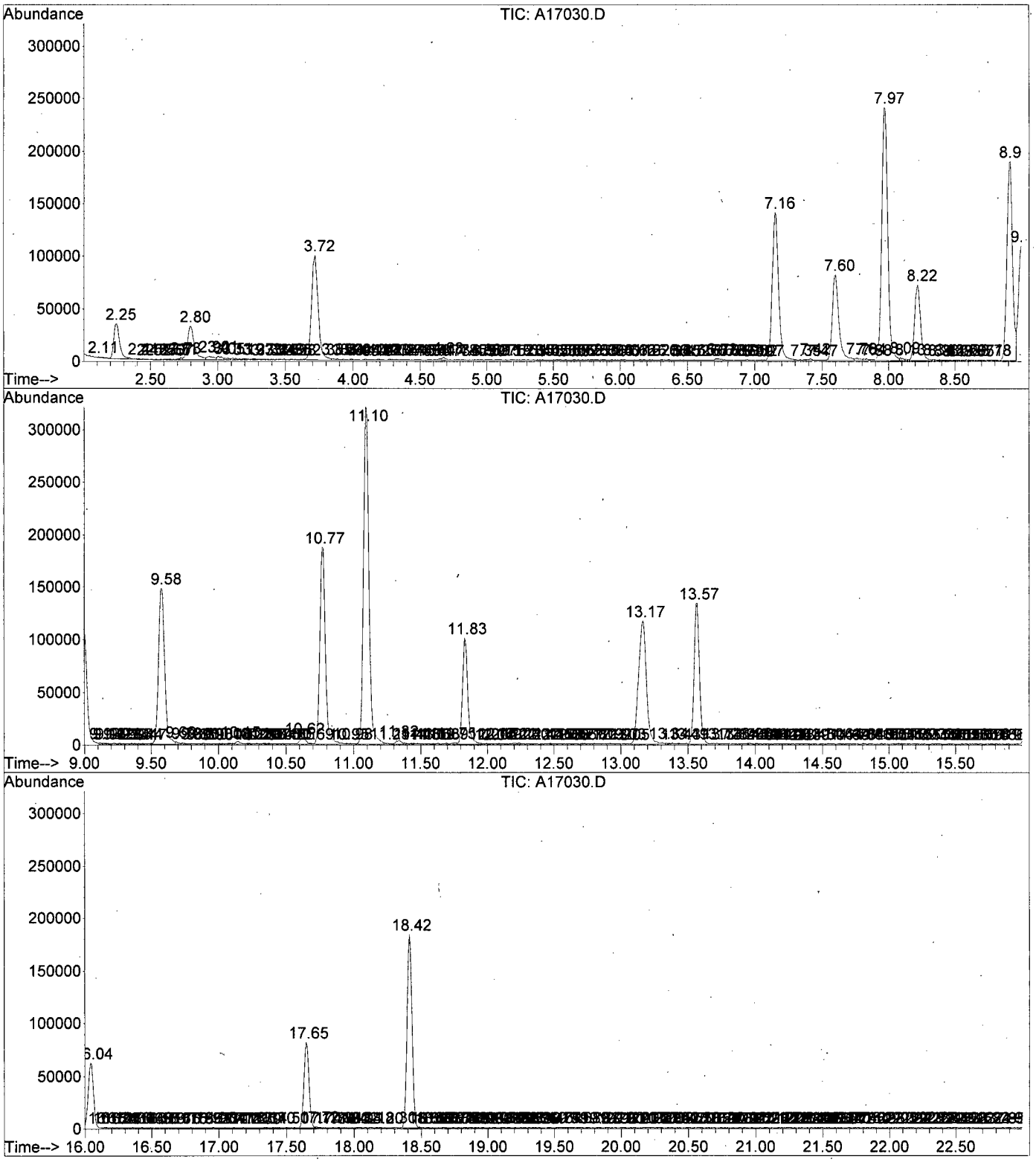
330	21.340	2758	2759	2762	VV 2	686	5899	0.07%	0.008%
331	21.383	2762	2765	2767	VV	462	5847	0.07%	0.008%
332	21.419	2767	2770	2771	VV	462	5109	0.06%	0.007%
333	21.441	2771	2773	2775	VV	446	4369	0.05%	0.006%
334	21.469	2775	2777	2778	VV	414	5415	0.06%	0.007%
335	21.498	2778	2781	2786	VV 2	570	11606	0.13%	0.015%
336	21.548	2786	2788	2792	VV	441	8051	0.09%	0.011%
337	21.591	2792	2794	2796	VV	427	4481	0.05%	0.006%
338	21.634	2796	2800	2803	VV 2	468	8498	0.10%	0.011%
339	21.670	2803	2805	2807	VV 2	371	4342	0.05%	0.006%
340	21.698	2807	2809	2812	VV	727	9329	0.10%	0.012%
341	21.741	2812	2815	2821	VV 2	725	13934	0.16%	0.018%
342	21.806	2821	2824	2826	PV 2	605	6244	0.07%	0.008%
343	21.842	2826	2829	2831	VV	770	9254	0.10%	0.012%
344	21.870	2831	2833	2843	VV 2	716	18612	0.21%	0.025%
345	21.949	2843	2844	2846	VV 2	388	3203	0.04%	0.004%
346	22.049	2846	2858	2860	VV 2	680	18314	0.21%	0.024%
347	22.085	2860	2863	2865	VV 2	508	7964	0.09%	0.011%
348	22.107	2865	2866	2879	VV 2	542	21288	0.24%	0.028%
349	22.221	2879	2882	2884	VV	449	4821	0.05%	0.006%
350	22.250	2884	2886	2890	VV 2	486	6588	0.07%	0.009%
351	22.293	2890	2892	2893	VV	268	2987	0.03%	0.004%
352	22.314	2893	2895	2898	VV 2	592	6053	0.07%	0.008%
353	22.350	2898	2900	2904	VV	806	8113	0.09%	0.011%
354	22.393	2904	2906	2908	VV	408	3689	0.04%	0.005%
355	22.451	2908	2914	2917	VV 2	394	10539	0.12%	0.014%
356	22.494	2917	2920	2925	VV 2	529	11218	0.13%	0.015%
357	22.580	2925	2932	2938	VV 2	328	13562	0.15%	0.018%
358	22.630	2938	2939	2943	VV 2	356	4536	0.05%	0.006%
359	22.673	2943	2945	2950	VV 2	382	4868	0.05%	0.006%
360	22.744	2950	2955	2958	VV 2	269	5010	0.06%	0.007%
361	22.794	2958	2962	2966	VV 2	501	7209	0.08%	0.010%
362	22.852	2966	2970	2972	VV	524	5269	0.06%	0.007%
363	22.909	2972	2978	2981	VV 2	512	8688	0.10%	0.012%

Sum of corrected areas: 75382629

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

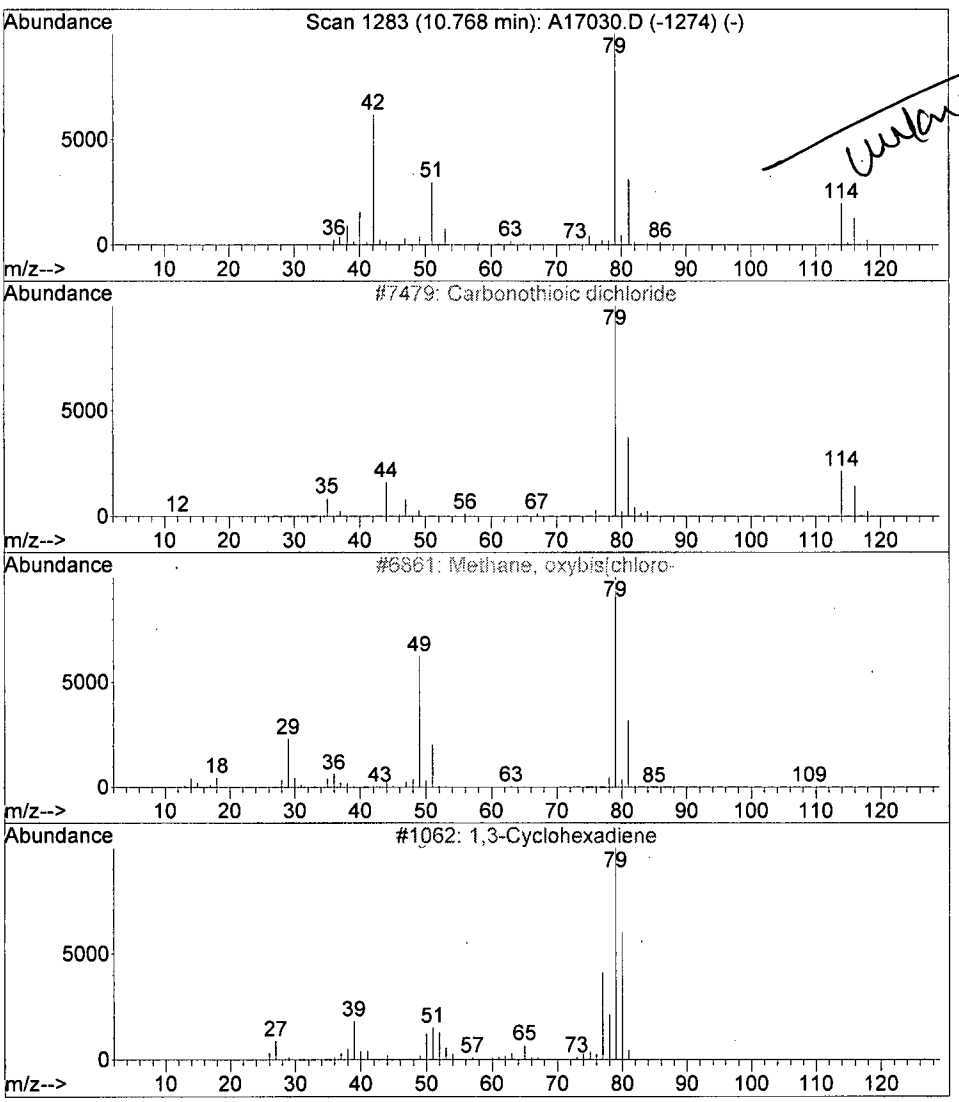
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

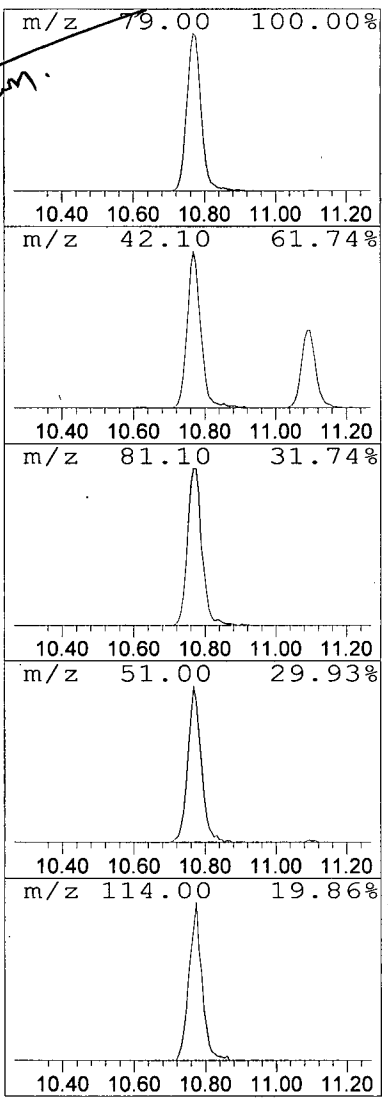
11/28/08

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	6.33 ug/L	4256850	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	1,3-Cyclohexadiene	80	C6H8	000592-57-4	9





Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

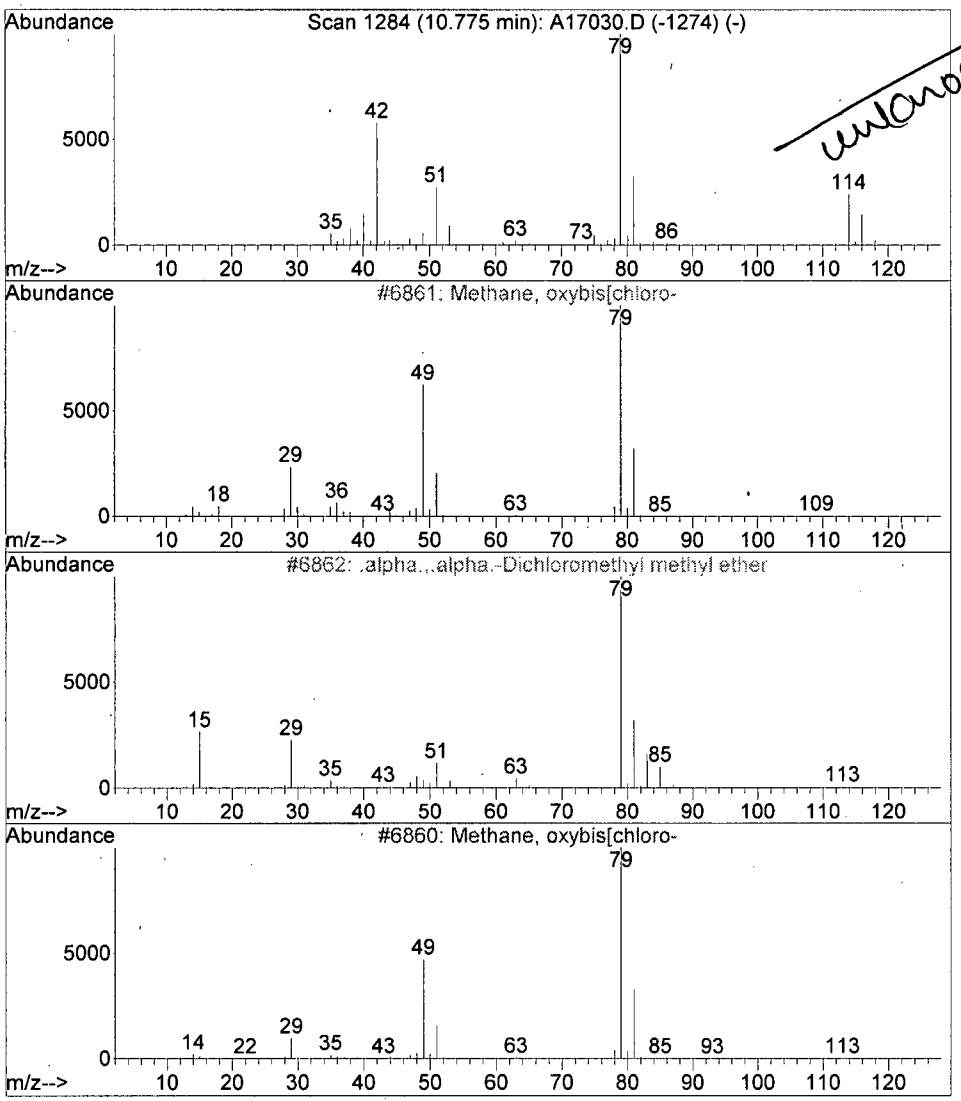
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/28/08

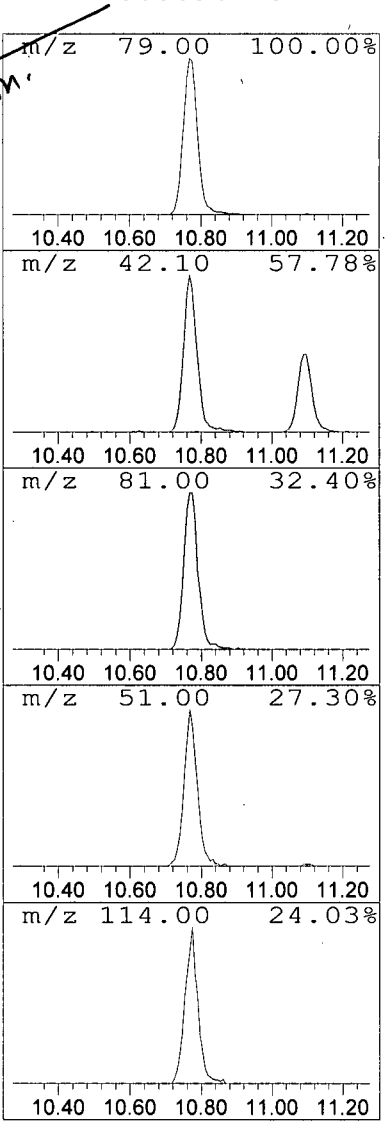
****
Peak Number 2 Methane, oxybis[chloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	1.49 ug/L	1000300	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	38
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17



unknown.



Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17030.D
Acq On : 11/26/08 20:10 Operator: SB
Sample : F2XE6DL 40X Inst : A-5973
Misc : S-2066.03DL 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	6.3	ug/L	4256850	1	9.00	3364460	5.0
Methane, oxybis[c...	10.77	1.5	ug/L	1000300	1	9.00	3364460	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17060

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.38	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.47	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17060

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	210	E
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.89	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17060

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 28 14:02:01 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

11/28/08

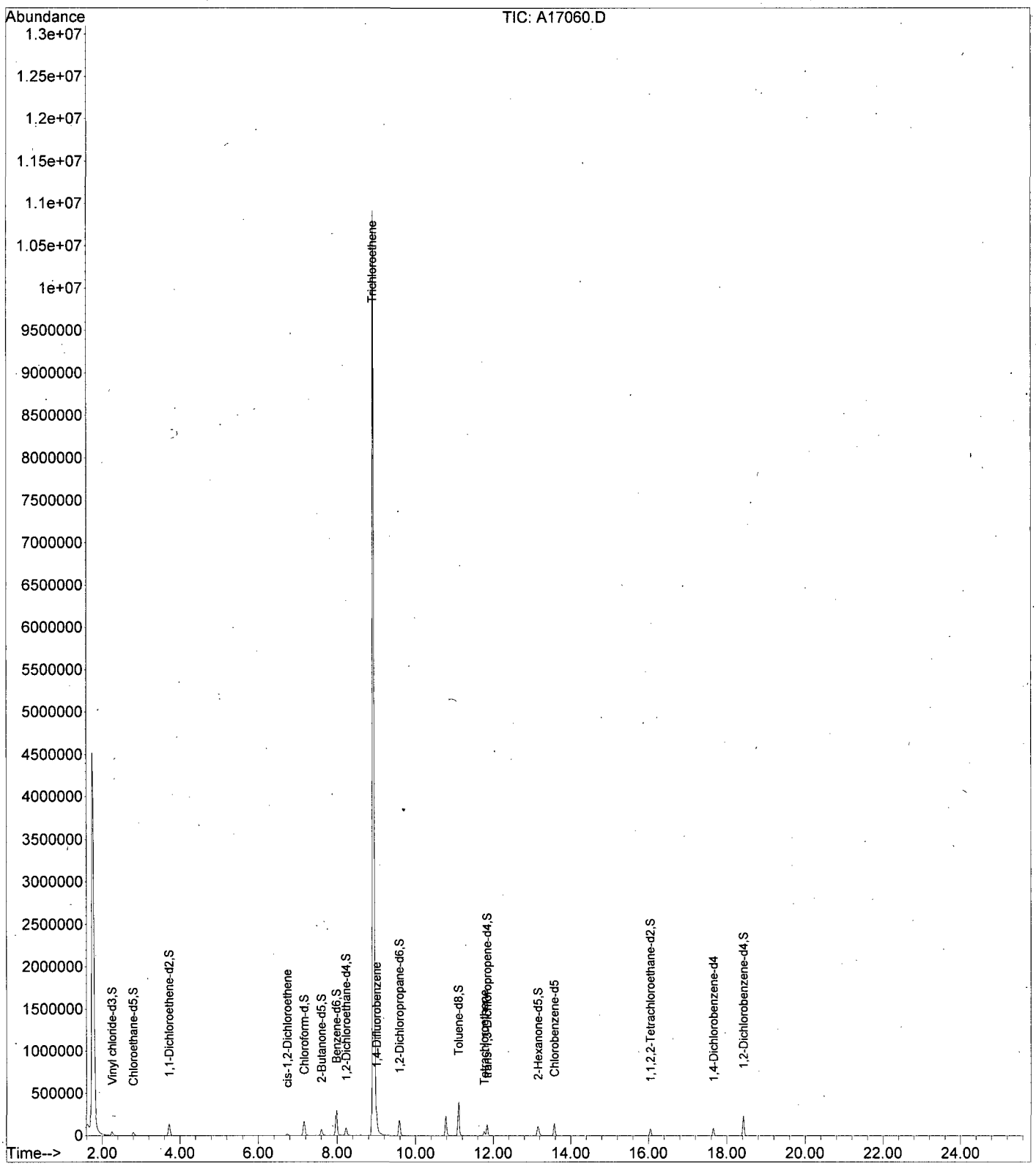
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.01	114	1554105	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.58	117	1226270	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.66	152	373901	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	765708	3.78	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 75.60%			
7) Chloroethane-d5	2.80	69	512076	4.27	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 85.40%			
10) 1,1-Dichloroethene-d2	3.73	63	1599750	3.21	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 64.20%			
21) 2-Butanone-d5	7.60	46	1421664	39.04	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 78.08%			
24) Chloroform-d	7.17	84	2122730	3.86	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 77.20%#			
26) 1,2-Dichloroethane-d4	8.23	65	971257	4.42	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 88.40%			
32) Benzene-d6	7.99	84	4059155	4.49	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 89.80%			
36) 1,2-Dichloropropane-d6	9.59	67	1214925	4.52	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 90.40%			
41) Toluene-d8	11.10	98	3995438	4.82	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 96.40%			
43) trans-1,3-Dichloropropene-	11.84	79	1001193	4.27	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 85.40%			
47) 2-Hexanone-d5	13.16	63	625879	46.30	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 92.60%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	622737	4.88	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 97.60%			
63) 1,2-Dichlorobenzene-d4	18.43	152	968793	5.70	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 114.00%			
Target Compounds						Qvalue
11) 1,1-Dichloroethene	3.74	96	91520	0.38	ug/L #	1
20) cis-1,2-Dichloroethene	6.74	96	118279	0.47	ug/L	97
34) Trichloroethene	8.92	95	54539276	209.30	ug/L	96
46) Tetrachloroethene	11.77	164	175524	0.89	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

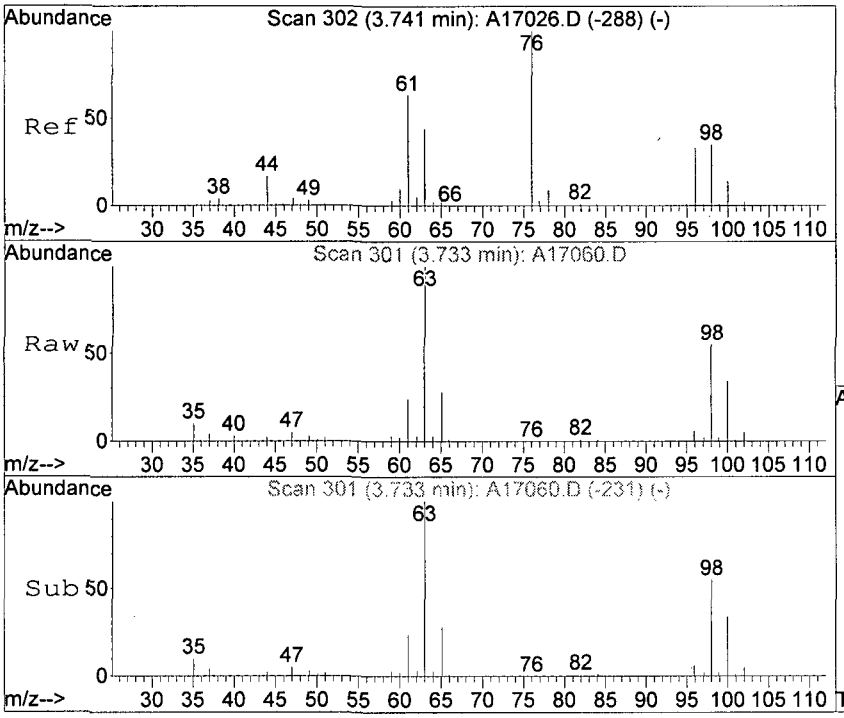
Data File: C:\MSDCHEM\1\DATA\A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 28 14:02:01 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



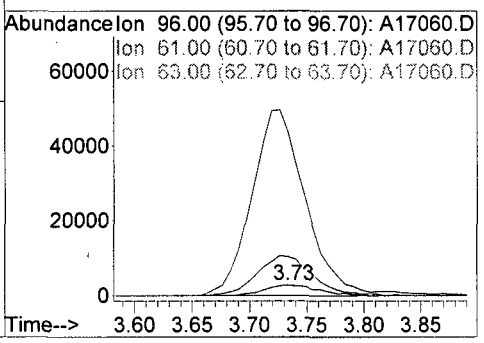
Data File : C:\MSDCHEM\1\DATA\A17060.D
Acq On : 11/27/08 16:39
Sample : F2XE7
Misc : S-2066.04 25ML
MS Integration Params: LSCINT.E

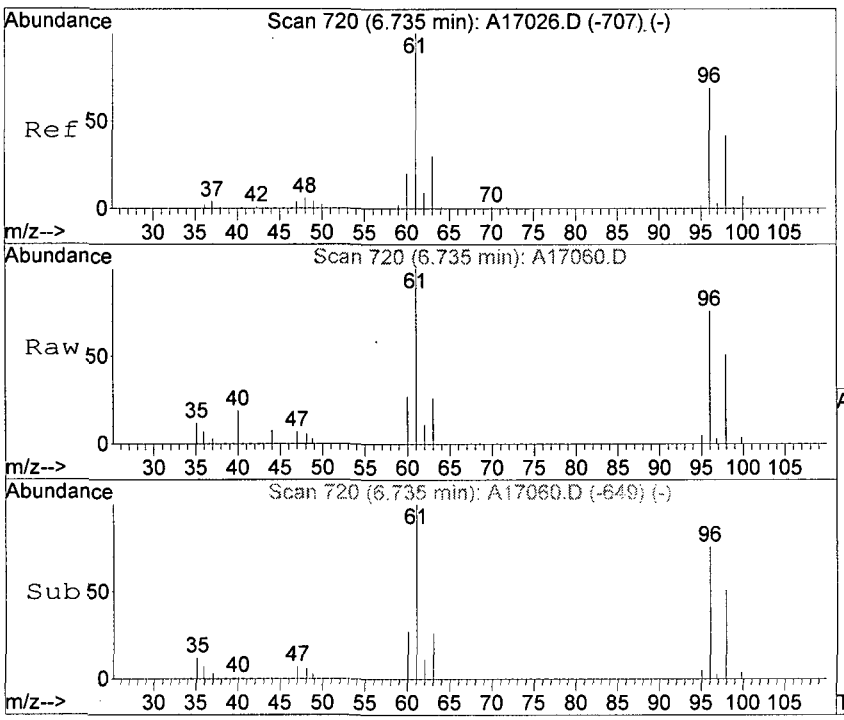
Vial: 12
Operator: SB
Inst : A-5973
Multiplr: 1.00



#11
1,1-Dichloroethene
Concen: 0.38 ug/L
RT: 3.74 min Scan# 301
Delta R.T. 0.00 min
Integration Range:
Scan=291 to 312
R.T.= 3.66 to 3.81 (min)
Tgt Ion: 96 Resp: 91520

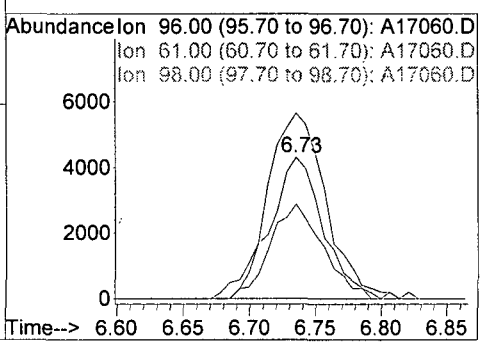
Ion	Ratio	Lower	Upper
96	100		
61	391.6	150.6	225.8#
63	1738.6	51.0	76.4#





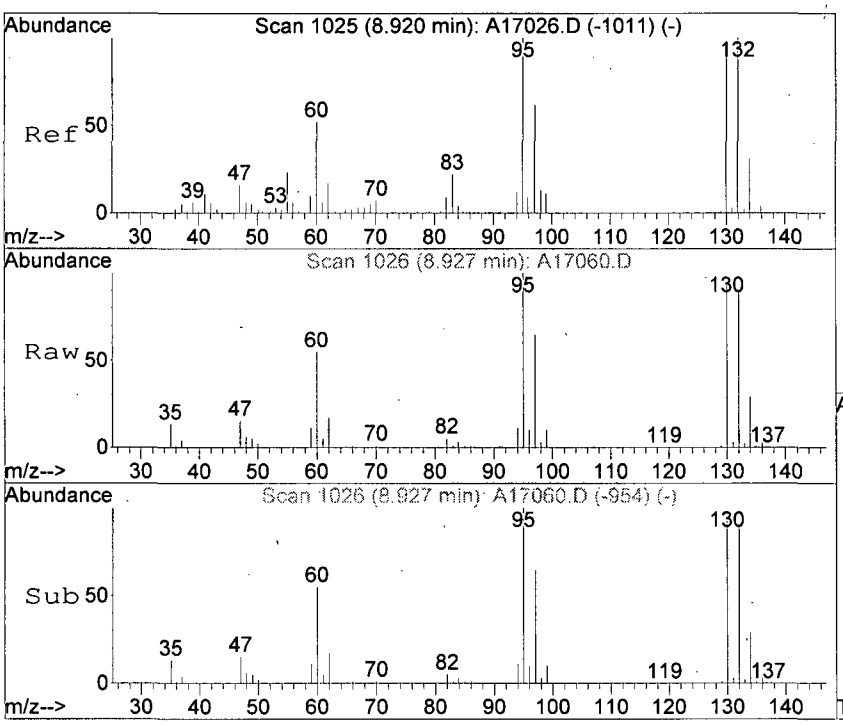
#20
cis-1,2-Dichloroethene
Concen: 0.47 ug/L
RT: 6.74 min Scan# 720
Delta R.T. 0.01 min
Integration Range:
Scan=710 to 729
R.T.= 6.66 to 6.80 (min)
Tgt Ion: 96 Resp: 118279

Ion	Ratio	Lower	Upper
96	100		
61	149.3	119.9	179.9
98	68.5	50.0	75.0



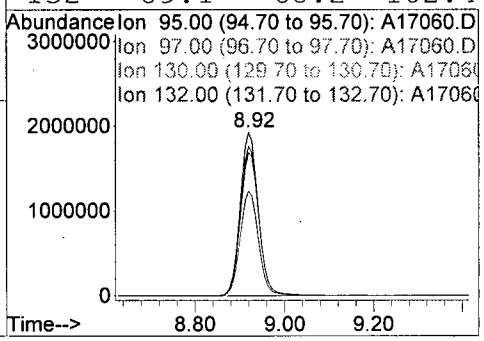
Data File : C:\MSDCHEM\1\DATA\A17060.D
Acq On : 11/27/08 16:39
Sample : F2XE7
Misc : S-2066.04 25ML
MS Integration Params: LSCINT.E

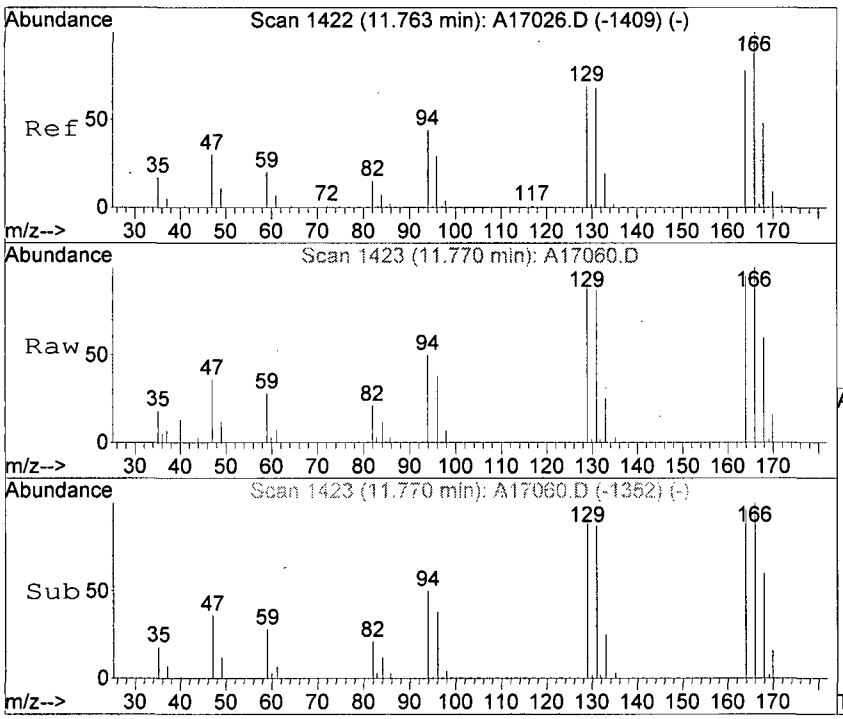
Vial: 12
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 209.30 ug/L
RT: 8.92 min Scan# 1026.
Delta R.T. 0.01 min
Integration Range:
Scan=1011 to 1067
R.T.= 8.82 to 9.22 (min)
Tgt Ion: 95 Resp:54539276

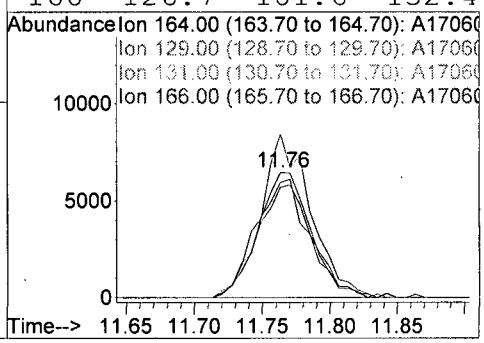
Ion	Ratio	Lower	Upper
95	100		
97	64.4	55.4	83.2
130	92.6	71.8	107.6
132	89.1	68.2	102.4





#46
Tetrachloroethene
Concen: 0.89 ug/L
RT: 11.77 min Scan# 1423
Delta R.T. 0.01 min
Integration Range:
Scan=1414 to 1433
R.T.= 11.71 to 11.84 (min)
Tgt Ion:164 Resp: 175524

Ion	Ratio	Lower	Upper
164	100		
129	95.0	80.6	120.8
131	92.5	79.1	118.7
166	126.7	101.6	152.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.158	77	81	83	BV 2	591	6124	0.00%	0.001%
2	2.193	83	86	87	PV 2	922	9843	0.00%	0.002%
3	2.251	87	94	108	VV	43204	1208961	0.39%	0.283%
4	2.358	108	109	116	VV 2	1081	31661	0.01%	0.007%
5	2.430	116	119	122	VV 3	1607	29903	0.01%	0.007%
6	2.458	122	123	132	VV 2	1798	32643	0.01%	0.008%
7	2.559	132	137	141	PV 2	986	21036	0.01%	0.005%
8	2.623	141	146	148	VV 3	1401	33441	0.01%	0.008%
9	2.652	148	150	152	VV 2	762	9637	0.00%	0.002%
10	2.688	152	155	159	VV 2	1051	22775	0.01%	0.005%
11	2.802	159	171	184	VV	37786	1300518	0.41%	0.304%
12	2.910	184	186	189	VV 2	2742	51211	0.02%	0.012%
13	2.960	189	193	197	VV 4	3143	88749	0.03%	0.021%
14	3.024	197	202	210	VV 3	3663	142423	0.05%	0.033%
15	3.117	210	215	222	VV 3	1383	47194	0.02%	0.011%
16	3.189	222	225	231	VV 2	1046	25928	0.01%	0.006%
17	3.239	231	232	236	VV	721	11645	0.00%	0.003%
18	3.289	236	239	244	VV 2	883	18772	0.01%	0.004%
19	3.339	244	246	250	VV	720	10042	0.00%	0.002%
20	3.382	250	252	254	VV	860	8067	0.00%	0.002%
21	3.418	254	257	259	VV 2	610	8369	0.00%	0.002%
22	3.454	259	262	268	VV 3	851	19492	0.01%	0.005%
23	3.504	268	269	271	VV	496	4342	0.00%	0.001%
24	3.533	271	273	275	VV	515	4773	0.00%	0.001%
25	3.583	275	280	282	VV 2	502	9224	0.00%	0.002%
26	3.647	282	289	290	VV 2	839	14893	0.00%	0.003%
27	3.726	290	300	312	VV 2	137684	4585367	1.46%	1.073%
28	3.819	312	313	324	VV	3701	96234	0.03%	0.023%
29	3.927	324	328	334	VV 4	876	28973	0.01%	0.007%
30	3.984	334	336	338	VV 2	646	8628	0.00%	0.002%
31	4.034	338	343	345	VV 2	540	11752	0.00%	0.003%
32	4.063	345	347	351	VV 2	783	12622	0.00%	0.003%
33	4.113	351	354	359	PV 2	692	12930	0.00%	0.003%
34	4.178	359	363	365	VV	617	8420	0.00%	0.002%
35	4.199	365	366	374	VV	838	15679	0.00%	0.004%
36	4.271	374	376	378	VV 2	644	7959	0.00%	0.002%
37	4.292	378	379	382	VV	686	6383	0.00%	0.001%
38	4.321	382	383	385	VV	520	4678	0.00%	0.001%
39	4.349	385	387	388	VV	717	5899	0.00%	0.001%
40	4.371	388	390	391	VV	823	8348	0.00%	0.002%
41	4.392	391	393	395	VV	796	8768	0.00%	0.002%
42	4.457	395	402	404	VV 2	888	21143	0.01%	0.005%
43	4.486	404	406	410	VV 2	626	11393	0.00%	0.003%
44	4.529	410	412	417	VV 2	818	12804	0.00%	0.003%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.593	417	421	427	VV 2	696	20663	0.01%	0.005%
46	4.657	427	430	435	VV 3	1318	34040	0.01%	0.008%
47	4.700	435	436	441	VV 2	1126	19018	0.01%	0.004%
48	4.751	441	443	446	VV 2	753	11186	0.00%	0.003%
49	4.815	446	452	453	VV 2	979	21771	0.01%	0.005%
50	4.837	453	455	459	VV 2	935	16885	0.01%	0.004%
51	4.880	459	461	464	VV 2	717	12277	0.00%	0.003%
52	4.923	464	467	475	VV 2	992	30595	0.01%	0.007%
53	4.994	475	477	480	VV 2	780	11225	0.00%	0.003%
54	5.037	480	483	487	VV 2	964	18520	0.01%	0.004%
55	5.094	487	491	493	VV 2	1185	17868	0.01%	0.004%
56	5.137	493	497	499	VV 2	1187	20977	0.01%	0.005%
57	5.166	499	501	502	VV 2	2066	24308	0.01%	0.006%
58	5.188	502	504	517	VV 2	1504	46773	0.01%	0.011%
59	5.295	517	519	521	VV	959	13682	0.00%	0.003%
60	5.324	521	523	527	VV 2	966	17213	0.01%	0.004%
61	5.367	527	529	533	VV 2	927	20698	0.01%	0.005%
62	5.410	533	535	538	VV	839	14540	0.00%	0.003%
63	5.438	538	539	547	VV	871	30407	0.01%	0.007%
64	5.546	547	554	558	VV	1000	33388	0.01%	0.008%
65	5.589	558	560	562	VV	725	9003	0.00%	0.002%
66	5.610	562	563	565	VV	1031	11676	0.00%	0.003%
67	5.639	565	567	573	VV 2	1111	23643	0.01%	0.006%
68	5.746	573	582	587	VV 2	908	45034	0.01%	0.011%
69	5.789	587	588	590	VV	1005	10260	0.00%	0.002%
70	5.811	590	591	603	VV 3	1542	58529	0.02%	0.014%
71	5.925	603	607	609	VV 2	898	21019	0.01%	0.005%
72	5.975	609	614	617	VV 2	967	29954	0.01%	0.007%
73	6.011	617	619	623	VV	1290	26131	0.01%	0.006%
74	6.061	623	626	628	VV	1154	16537	0.01%	0.004%
75	6.126	628	635	647	VV 2	1239	73425	0.02%	0.017%
76	6.233	647	650	652	VV 2	1117	20330	0.01%	0.005%
77	6.262	652	654	659	VV	1190	27466	0.01%	0.006%
78	6.312	659	661	665	VV 2	1506	31627	0.01%	0.007%
79	6.355	665	667	669	VV	1241	17060	0.01%	0.004%
80	6.384	669	671	673	VV	1209	15235	0.00%	0.004%
81	6.412	673	675	678	VV 2	1095	20543	0.01%	0.005%
82	6.455	678	681	698	VV 2	1477	90199	0.03%	0.021%
83	6.606	698	702	704	VV 2	1186	26812	0.01%	0.006%
84	6.735	704	720	734	VV 2	19984	687489	0.22%	0.161%
85	6.849	734	736	738	VV	1460	21932	0.01%	0.005%
86	6.878	738	740	744	VV 2	1325	25215	0.01%	0.006%
87	6.914	744	745	750	VV 2	1392	28857	0.01%	0.007%
88	6.993	750	756	763	VV 2	1523	72961	0.02%	0.017%
89	7.165	763	780	797	VV	169843	5837243	1.86%	1.365%
90	7.293	797	798	807	VV 4	2595	92423	0.03%	0.022%
91	7.372	807	809	811	VV	1837	27495	0.01%	0.006%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.401	811	813	815	VV 2	1713	21598	0.01%	0.005%
93	7.422	815	816	820	VV	1964	34543	0.01%	0.008%
94	7.465	820	822	825	VV	1811	31821	0.01%	0.007%
95	7.494	825	826	830	VV	1400	31514	0.01%	0.007%
96	7.609	830	842	860	VV	72806	2407982	0.77%	0.563%
97	7.745	860	861	864	VV 2	2432	40286	0.01%	0.009%
98	7.773	864	865	867	VV	2014	23497	0.01%	0.005%
99	7.802	867	869	882	VV 3	1880	102842	0.03%	0.024%
100	7.981	882	894	912	VV	297447	9168915	2.92%	2.145%
101	8.124	912	914	919	VV 2	3185	70472	0.02%	0.016%
102	8.232	919	929	947	VV	92341	2969976	0.95%	0.695%
103	8.382	947	950	955	VV 3	1952	54134	0.02%	0.013%
104	8.425	955	956	960	VV 2	1950	38632	0.01%	0.009%
105	8.490	960	965	973	VV 2	1994	97936	0.03%	0.023%
106	8.590	973	979	985	VV 3	2302	91023	0.03%	0.021%
107	8.640	985	986	988	VV	1761	22530	0.01%	0.005%
108	8.669	988	990	997	VV 2	1887	66033	0.02%	0.015%
109	8.733	997	999	1002	VV 2	1742	37515	0.01%	0.009%
110	8.819	1002	1011	1013	VV 2	2144	84865	0.03%	0.020%
111	8.927	1013	1026	1082	VV	10813054	313655312	100.00%	73.363%
112	9.335	1082	1083	1088	VV 2	3631	87625	0.03%	0.020%
113	9.392	1088	1091	1094	VV 2	3296	71192	0.02%	0.017%
114	9.428	1094	1096	1107	VV 4	3039	141497	0.05%	0.033%
115	9.593	1107	1119	1140	VV 2	187712	6107851	1.95%	1.429%
116	9.758	1140	1142	1145	VV 2	2776	57345	0.02%	0.013%
117	9.836	1145	1153	1156	VV 3	3235	132978	0.04%	0.031%
118	9.872	1156	1158	1164	VV 2	2759	78877	0.03%	0.018%
119	9.922	1164	1165	1167	VV 2	2894	42181	0.01%	0.010%
120	10.001	1167	1176	1180	VV 3	2813	137217	0.04%	0.032%
121	10.044	1180	1182	1186	VV 2	2745	65273	0.02%	0.015%
122	10.087	1186	1188	1191	VV 2	2646	50746	0.02%	0.012%
123	10.123	1191	1193	1197	VV 3	2797	71280	0.02%	0.017%
124	10.166	1197	1199	1203	VV 2	3500	74768	0.02%	0.017%
125	10.202	1203	1204	1211	VV 2	2770	89593	0.03%	0.021%
126	10.280	1214	1215	1218	VV 2	3036	46304	0.01%	0.011%
127	10.316	1218	1220	1221	VV	2694	38399	0.01%	0.009%
128	10.345	1221	1224	1231	VV 2	2749	106600	0.03%	0.025%
129	10.402	1231	1232	1242	VV 2	2794	123165	0.04%	0.029%
130	10.488	1242	1244	1250	VV 2	2757	86904	0.03%	0.020%
131	10.546	1250	1252	1257	VV 3	2638	76155	0.02%	0.018%
132	10.596	1257	1259	1268	VV 2	2901	113270	0.04%	0.026%
133	10.674	1268	1270	1272	VV 2	2786	47662	0.02%	0.011%
134	10.703	1272	1274	1276	VV 2	2944	44776	0.01%	0.010%
135	10.782	1276	1285	1301	VV	236201	6605934	2.11%	1.545%
136	10.904	1301	1302	1308	VV 2	4356	115543	0.04%	0.027%
137	10.954	1308	1309	1316	VV 2	3361	107938	0.03%	0.025%
138	11.011	1316	1317	1319	VV	3360	45145	0.01%	0.011%
139	11.104	1319	1330	1353	VV	403491	11229226	3.58%	2.626%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	11.283	1353	1355	1356	VV	3147	42748	0.01%	0.010%
141	11.341	1356	1363	1367	VV 2	3249	143844	0.05%	0.034%
142	11.405	1367	1372	1376	VV 2	3134	112323	0.04%	0.026%
143	11.448	1376	1378	1385	VV 2	3100	106014	0.03%	0.025%
144	11.570	1385	1395	1396	VV 2	3269	148177	0.05%	0.035%
145	11.591	1396	1398	1403	VV 2	3126	81603	0.03%	0.019%
146	11.770	1403	1423	1428	VV 2	52011	1668464	0.53%	0.390%
147	11.842	1428	1433	1451	VV 2	132952	3798749	1.21%	0.889%
148	11.978	1451	1452	1456	VV	3557	74752	0.02%	0.017%
149	12.035	1456	1460	1465	VV 3	3568	132939	0.04%	0.031%
150	12.107	1465	1470	1476	VV 3	4448	167928	0.05%	0.039%
151	12.186	1476	1481	1483	VV 3	3395	94295	0.03%	0.022%
152	12.229	1483	1487	1500	VV 3	3548	232248	0.07%	0.054%
153	12.336	1500	1502	1504	VV 3	3406	47405	0.02%	0.011%
154	12.394	1504	1510	1512	VV 2	3512	115240	0.04%	0.027%
155	12.437	1512	1516	1522	VV 2	3431	139058	0.04%	0.033%
156	12.494	1522	1524	1528	VV	3722	87915	0.03%	0.021%
157	12.537	1528	1530	1533	VV 2	3574	70658	0.02%	0.017%
158	12.573	1533	1535	1540	VV 3	3417	97651	0.03%	0.023%
159	12.637	1540	1544	1546	VV 2	3373	73548	0.02%	0.017%
160	12.666	1546	1548	1549	VV	3700	53300	0.02%	0.012%
161	12.687	1549	1551	1556	VV	3497	101268	0.03%	0.024%
162	12.737	1556	1558	1571	VV 3	3390	200604	0.06%	0.047%
163	12.866	1571	1576	1578	VV 3	3551	109962	0.04%	0.026%
164	12.895	1578	1580	1588	VV 2	3562	139133	0.04%	0.033%
165	12.967	1588	1590	1596	VV 3	3494	104643	0.03%	0.024%
166	13.024	1596	1598	1602	VV	3509	89964	0.03%	0.021%
167	13.060	1602	1603	1606	VV	3765	60885	0.02%	0.014%
168	13.153	1606	1616	1635	VV 2	113032	4608851	1.47%	1.078%
169	13.303	1635	1637	1640	VV 2	4570	78692	0.03%	0.018%
170	13.332	1640	1641	1645	VV	4180	92826	0.03%	0.022%
171	13.375	1645	1647	1649	VV 2	3998	55881	0.02%	0.013%
172	13.396	1649	1650	1652	VV	3801	47354	0.02%	0.011%
173	13.418	1652	1653	1655	VV	3891	57505	0.02%	0.013%
174	13.468	1655	1660	1666	VV 2	3768	164415	0.05%	0.038%
175	13.575	1666	1675	1688	VV	147244	4233783	1.35%	0.990%
176	13.683	1688	1690	1693	VV 3	4162	82755	0.03%	0.019%
177	13.733	1693	1697	1700	VV 2	3888	115604	0.04%	0.027%
178	13.826	1700	1710	1712	VV 3	4138	186720	0.06%	0.044%
179	13.848	1712	1713	1715	VV	3856	55125	0.02%	0.013%
180	13.905	1715	1721	1724	VV 2	4090	139853	0.04%	0.033%
181	13.941	1724	1726	1728	VV 2	4148	67494	0.02%	0.016%
182	13.969	1728	1730	1734	VV	4046	85019	0.03%	0.020%
183	14.005	1734	1735	1737	VV	3569	48318	0.02%	0.011%
184	14.070	1737	1744	1750	VV 2	4015	199018	0.06%	0.047%
185	14.127	1750	1752	1754	VV 2	4327	67304	0.02%	0.016%
186	14.149	1754	1755	1756	VV	3594	39670	0.01%	0.009%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	14.206	1756	1763	1766	VV 2	3951	148893	0.05%	0.035%
188	14.242	1766	1768	1772	VV	4062	95429	0.03%	0.022%
189	14.285	1772	1774	1776	VV 2	3942	72446	0.02%	0.017%
190	14.313	1776	1778	1780	VV 2	3962	63660	0.02%	0.015%
191	14.349	1780	1783	1786	VV 2	4163	94946	0.03%	0.022%
192	14.385	1786	1788	1797	VV 2	3952	171419	0.05%	0.040%
193	14.478	1797	1801	1803	VV	4086	113478	0.04%	0.027%
194	14.507	1803	1805	1808	VV 2	3890	76551	0.02%	0.018%
195	14.542	1808	1810	1812	VV 2	4159	57419	0.02%	0.013%
196	14.564	1812	1813	1816	VV	4218	83291	0.03%	0.019%
197	14.614	1816	1820	1822	VV 2	4192	88058	0.03%	0.021%
198	14.636	1822	1823	1828	VV	4347	118124	0.04%	0.028%
199	14.714	1828	1834	1837	VV 2	4405	147495	0.05%	0.034%
200	14.757	1837	1840	1843	VV 2	4406	99215	0.03%	0.023%
201	14.807	1843	1847	1855	VV 2	4267	209176	0.07%	0.049%
202	14.879	1855	1857	1861	VV	4038	105175	0.03%	0.025%
203	14.915	1861	1862	1866	VV	4029	79490	0.03%	0.019%
204	14.958	1866	1868	1871	VV 2	4059	92549	0.03%	0.022%
205	15.001	1871	1874	1878	VV 2	4300	104613	0.03%	0.024%
206	15.044	1878	1880	1882	VV	4396	74440	0.02%	0.017%
207	15.065	1882	1883	1885	VV	4211	50610	0.02%	0.012%
208	15.094	1885	1887	1894	VV 2	4315	165160	0.05%	0.039%
209	15.158	1894	1896	1904	VV 2	4095	168461	0.05%	0.039%
210	15.237	1904	1907	1912	VV 2	4194	127188	0.04%	0.030%
211	15.302	1912	1916	1921	VV 2	4270	166067	0.05%	0.039%
212	15.395	1921	1929	1935	VV	4205	229387	0.07%	0.054%
213	15.445	1935	1936	1938	VV	4224	61658	0.02%	0.014%
214	15.531	1938	1948	1954	VV 2	4490	289406	0.09%	0.068%
215	15.588	1954	1956	1958	VV 2	4094	68182	0.02%	0.016%
216	15.631	1958	1962	1970	VV 2	4328	206094	0.07%	0.048%
217	15.703	1970	1972	1973	VV	4592	64685	0.02%	0.015%
218	15.732	1973	1976	1977	VV 2	4475	71656	0.02%	0.017%
219	15.753	1977	1979	1986	VV 2	4565	148445	0.05%	0.035%
220	15.817	1986	1988	1990	VV 2	4459	84331	0.03%	0.020%
221	15.846	1990	1992	1994	VV 2	4294	67879	0.02%	0.016%
222	15.875	1994	1996	1998	VV	4335	78394	0.02%	0.018%
223	15.903	1998	2000	2004	VV 2	4384	95171	0.03%	0.022%
224	15.939	2004	2005	2011	VV 2	4449	142251	0.05%	0.033%
225	16.054	2011	2021	2032	VV 2	84666	2539867	0.81%	0.594%
226	16.147	2032	2034	2037	VV 2	4404	90726	0.03%	0.021%
227	16.190	2037	2040	2043	VV 2	4710	120747	0.04%	0.028%
228	16.240	2043	2047	2054	VV 2	4637	198085	0.06%	0.046%
229	16.305	2054	2056	2064	VV	4704	193299	0.06%	0.045%
230	16.398	2064	2069	2072	VV 2	4796	141146	0.05%	0.033%
231	16.434	2072	2074	2078	VV 2	4695	112847	0.04%	0.026%
232	16.476	2078	2080	2082	VV 2	4516	76860	0.02%	0.018%
233	16.527	2082	2087	2091	VV 2	4827	185901	0.06%	0.043%
234	16.584	2091	2095	2097	VV 2	4858	114251	0.04%	0.027%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.613	2097	2099	2102	VV	4602	89729	0.03%	0.021%
236	16.656	2102	2105	2107	VV 2	4679	97319	0.03%	0.023%
237	16.691	2107	2110	2115	VV 2	4967	165322	0.05%	0.039%
238	16.749	2115	2118	2120	VV	4809	100203	0.03%	0.023%
239	16.785	2120	2123	2128	VV 2	5003	159287	0.05%	0.037%
240	16.827	2128	2129	2132	VV	4694	88605	0.03%	0.021%
241	16.885	2132	2137	2143	VV 2	4921	215919	0.07%	0.051%
242	16.949	2143	2146	2148	VV	4909	90588	0.03%	0.021%
243	16.978	2148	2150	2158	VV 2	4829	198702	0.06%	0.046%
244	17.064	2158	2162	2165	VV 2	4995	147349	0.05%	0.034%
245	17.107	2165	2168	2171	VV 2	4867	126376	0.04%	0.030%
246	17.150	2171	2174	2187	VV 2	5072	326082	0.10%	0.076%
247	17.264	2187	2190	2193	VV 2	4978	126340	0.04%	0.030%
248	17.315	2193	2197	2200	VV 2	4814	122655	0.04%	0.029%
249	17.365	2200	2204	2209	VV 2	4907	193642	0.06%	0.045%
250	17.436	2209	2214	2216	VV	4896	132837	0.04%	0.031%
251	17.458	2216	2217	2220	VV 2	4936	81918	0.03%	0.019%
252	17.508	2220	2224	2229	VV 2	5078	195864	0.06%	0.046%
253	17.551	2229	2230	2236	VV 2	5188	145786	0.05%	0.034%
254	17.658	2236	2245	2258	VV	90327	2645620	0.84%	0.619%
255	17.759	2258	2259	2261	VV	5050	68194	0.02%	0.016%
256	17.780	2261	2262	2265	VV	4994	83124	0.03%	0.019%
257	17.859	2265	2273	2275	VV 2	5225	210767	0.07%	0.049%
258	17.895	2275	2278	2286	VV 2	5209	231599	0.07%	0.054%
259	17.959	2286	2287	2289	VV	5361	70499	0.02%	0.016%
260	17.988	2289	2291	2294	VV	5338	113917	0.04%	0.027%
261	18.024	2294	2296	2300	VV 2	5363	128675	0.04%	0.030%
262	18.067	2300	2302	2304	VV 2	5190	97550	0.03%	0.023%
263	18.095	2304	2306	2311	VV 2	5365	152681	0.05%	0.036%
264	18.153	2311	2314	2317	VV 2	5291	130577	0.04%	0.031%
265	18.196	2317	2320	2323	VV 2	5019	130888	0.04%	0.031%
266	18.246	2323	2327	2329	VV 2	5289	124426	0.04%	0.029%
267	18.274	2329	2331	2333	VV 2	5350	86110	0.03%	0.020%
268	18.303	2333	2335	2339	VV	5252	135592	0.04%	0.032%
269	18.425	2339	2352	2370	VV	239673	6757640	2.15%	1.581%
270	18.568	2370	2372	2374	VV	5825	84703	0.03%	0.020%
271	18.611	2374	2378	2385	VV 2	5627	249157	0.08%	0.058%
272	18.719	2385	2393	2398	VV 2	5724	305501	0.10%	0.071%
273	18.769	2398	2400	2404	VV 2	5495	138810	0.04%	0.032%
274	18.833	2404	2409	2415	VV 2	5596	249913	0.08%	0.058%
275	18.890	2415	2417	2419	VV	5537	92986	0.03%	0.022%
276	18.941	2419	2424	2428	VV	5539	194928	0.06%	0.046%
277	18.984	2428	2430	2432	VV 2	5441	88138	0.03%	0.021%
278	19.005	2432	2433	2435	VV	5563	80906	0.03%	0.019%
279	19.055	2435	2440	2444	VV	5543	211908	0.07%	0.050%
280	19.098	2444	2446	2451	VV 2	5753	157743	0.05%	0.037%
281	19.148	2451	2453	2454	VV	5447	75392	0.02%	0.018%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	19.184	2454	2458	2461	VV 2	5507	162901	0.05%	0.038%
283	19.220	2461	2463	2465	VV	5518	82303	0.03%	0.019%
284	19.284	2465	2472	2474	VV	5718	220159	0.07%	0.051%
285	19.320	2474	2477	2481	VV	5700	146322	0.05%	0.034%
286	19.356	2481	2482	2484	VV 2	5631	82926	0.03%	0.019%
287	19.378	2484	2485	2489	VV	5534	120105	0.04%	0.028%
288	19.435	2489	2493	2504	VV	5726	337707	0.11%	0.079%
289	19.528	2504	2506	2507	VV	5791	84112	0.03%	0.020%
290	19.549	2507	2509	2511	VV 2	5672	97669	0.03%	0.023%
291	19.578	2511	2513	2515	VV	5895	94154	0.03%	0.022%
292	19.600	2515	2516	2522	VV	5932	170920	0.05%	0.040%
293	19.657	2522	2524	2526	VV 2	5677	84751	0.03%	0.020%
294	19.707	2526	2531	2532	VV 2	5649	152697	0.05%	0.036%
295	19.729	2532	2534	2539	VV 2	5796	171539	0.05%	0.040%
296	19.779	2539	2541	2547	VV 2	5796	191926	0.06%	0.045%
297	19.836	2547	2549	2552	VV 2	5811	126642	0.04%	0.030%
298	19.922	2552	2561	2562	VV 2	5872	244738	0.08%	0.057%
299	19.943	2562	2564	2570	VV 2	6087	192171	0.06%	0.045%
300	20.008	2570	2573	2575	VV	5966	120206	0.04%	0.028%
301	20.051	2575	2579	2581	VV 2	5895	151744	0.05%	0.035%
302	20.079	2581	2583	2587	VV 2	6231	135793	0.04%	0.032%
303	20.130	2587	2590	2593	VV	5793	171146	0.05%	0.040%
304	20.165	2593	2595	2598	VV	5958	121749	0.04%	0.028%
305	20.216	2598	2602	2611	VV 2	5934	317357	0.10%	0.074%
306	20.294	2611	2613	2615	VV	5792	93112	0.03%	0.022%
307	20.337	2615	2619	2629	VV 2	5984	342148	0.11%	0.080%
308	20.423	2629	2631	2644	VV 2	6254	370183	0.12%	0.087%
309	20.531	2644	2646	2647	VV 2	5994	86628	0.03%	0.020%
310	20.552	2647	2649	2652	VV	6193	118535	0.04%	0.028%
311	20.588	2652	2654	2656	VV	5908	119770	0.04%	0.028%
312	20.631	2656	2660	2662	VV 2	6184	157162	0.05%	0.037%
313	20.660	2662	2664	2666	VV	6100	92419	0.03%	0.022%
314	20.696	2666	2669	2671	VV 2	6310	127075	0.04%	0.030%
315	20.724	2671	2673	2676	VV	6470	125332	0.04%	0.029%
316	20.774	2676	2680	2683	VV 2	6239	190934	0.06%	0.045%
317	20.875	2683	2694	2697	VV 2	6146	351126	0.11%	0.082%
318	20.910	2697	2699	2701	VV 2	6047	97277	0.03%	0.023%
319	20.946	2701	2704	2707	VV 2	6228	163006	0.05%	0.038%
320	20.982	2707	2709	2711	VV	6168	87158	0.03%	0.020%
321	21.004	2711	2712	2714	VV	6316	94398	0.03%	0.022%
322	21.032	2714	2716	2718	VV 2	6266	95888	0.03%	0.022%
323	21.068	2718	2721	2723	VV	6489	143315	0.05%	0.034%
324	21.161	2723	2734	2737	VV 2	6518	375775	0.12%	0.088%
325	21.204	2737	2740	2746	VV	6325	235504	0.08%	0.055%
326	21.261	2746	2748	2750	VV 2	6175	90750	0.03%	0.021%
327	21.290	2750	2752	2754	VV 2	6303	115269	0.04%	0.027%
328	21.333	2754	2758	2764	VV 2	6420	248840	0.08%	0.058%
329	21.405	2764	2768	2772	VV 2	6291	231985	0.07%	0.054%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

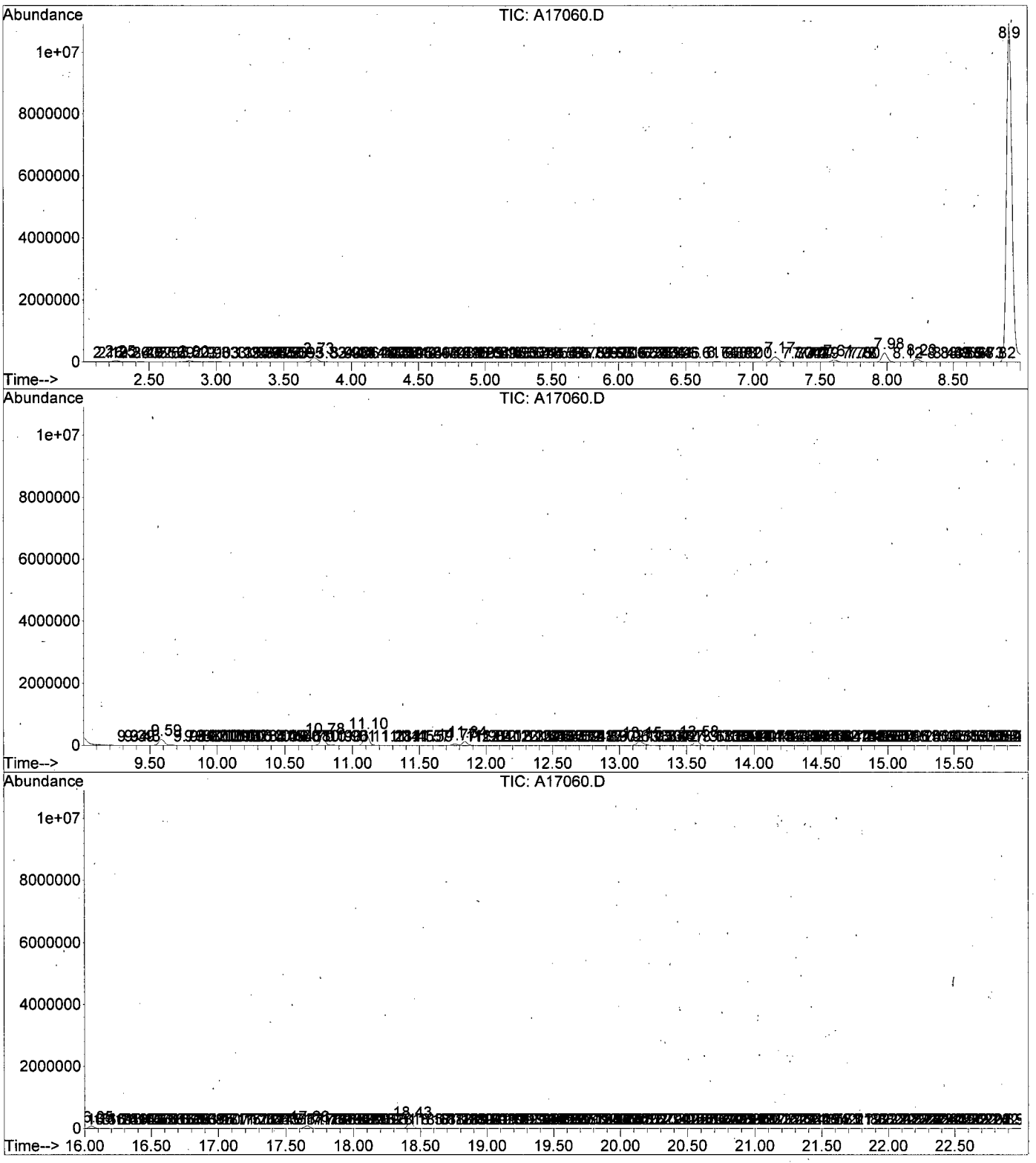
330	21.462	2772	2776	2778	VV	6327	151300	0.05%	0.035%
331	21.512	2778	2783	2784	VV 2	6443	172120	0.05%	0.040%
332	21.541	2784	2787	2789	VV	6632	125604	0.04%	0.029%
333	21.569	2789	2791	2795	VV 2	6689	159729	0.05%	0.037%
334	21.627	2795	2799	2807	VV 2	6345	330629	0.11%	0.077%
335	21.706	2807	2810	2816	VV 2	6422	243897	0.08%	0.057%
336	21.784	2816	2821	2823	VV 2	6538	188711	0.06%	0.044%
337	21.827	2823	2827	2829	VV	6638	149392	0.05%	0.035%
338	21.885	2829	2835	2851	VV 2	6613	627809	0.20%	0.147%
339	22.014	2851	2853	2859	VV 2	6488	208296	0.07%	0.049%
340	22.071	2859	2861	2868	VV 2	6556	252302	0.08%	0.059%
341	22.135	2868	2870	2871	VV	6518	87759	0.03%	0.021%
342	22.171	2871	2875	2877	VV	7189	168192	0.05%	0.039%
343	22.214	2877	2881	2882	VV 2	6434	133740	0.04%	0.031%
344	22.236	2882	2884	2885	VV	6494	81075	0.03%	0.019%
345	22.271	2885	2889	2891	VV	6799	169960	0.05%	0.040%
346	22.307	2891	2894	2897	VV 2	6717	171982	0.05%	0.040%
347	22.357	2897	2901	2903	VV	6677	165105	0.05%	0.039%
348	22.400	2903	2907	2909	VV 2	6638	157328	0.05%	0.037%
349	22.429	2909	2911	2913	VV	6786	128540	0.04%	0.030%
350	22.458	2913	2915	2917	VV	6930	107676	0.03%	0.025%
351	22.486	2917	2919	2922	VV	6768	139084	0.04%	0.033%
352	22.522	2922	2924	2926	VV	6717	108442	0.03%	0.025%
353	22.551	2926	2928	2932	VV	6796	171092	0.05%	0.040%
354	22.594	2932	2934	2936	VV	6933	134439	0.04%	0.031%
355	22.622	2936	2938	2946	VV 2	6683	283056	0.09%	0.066%
356	22.694	2946	2948	2951	VV	7047	136915	0.04%	0.032%
357	22.744	2951	2955	2961	VV 2	6842	276535	0.09%	0.065%
358	22.816	2961	2965	2968	VV 2	6983	212015	0.07%	0.050%
359	22.844	2968	2969	2976	VV 2	6901	239711	0.08%	0.056%
360	22.923	2976	2980	2985	VBA2	6828	251459	0.08%	0.059%

Sum of corrected areas: 427538454

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

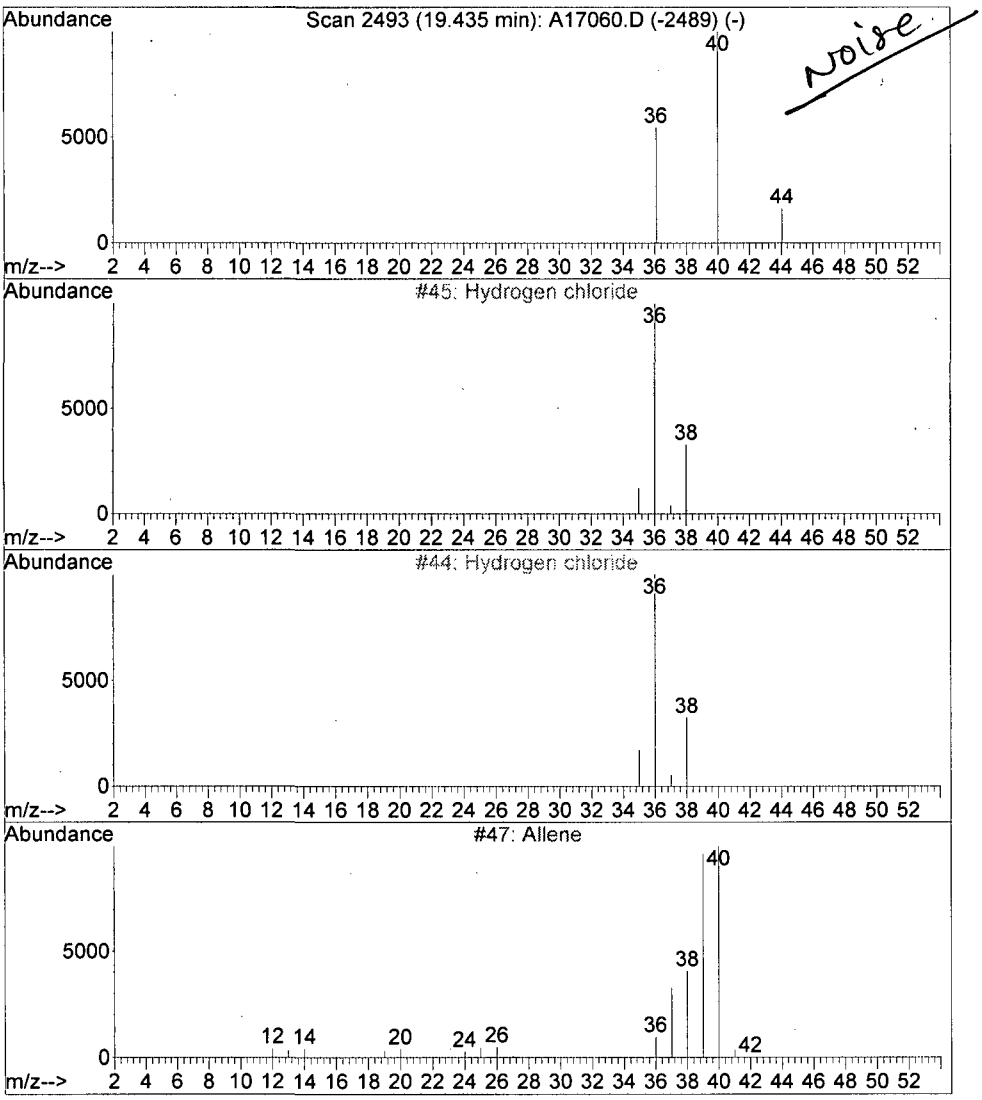
11/28/08

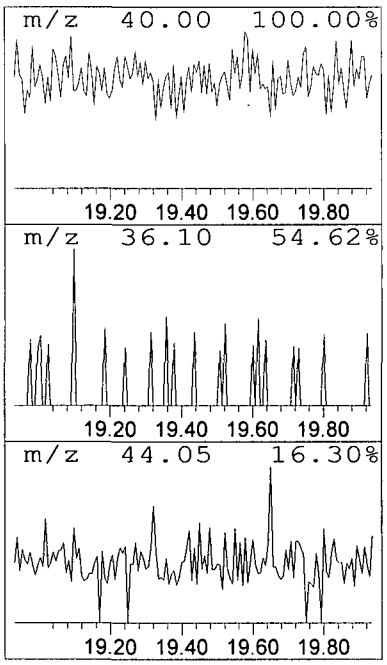
****

Peak Number 1 Hydrogen chloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.44	0.64 ug/L	337707	1,4-Dichlorobenzene-d4	17.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydrogen chloride	36	ClH	007647-01-0	2
2	Hydrogen chloride	36	ClH	007647-01-0	2
3	Allene	40	C3H4	000463-49-0	2
4	Methanol-D4	36	CD4O	000811-98-3	2
5	Acetaldehyde	44	C2H4O	000075-07-0	1





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

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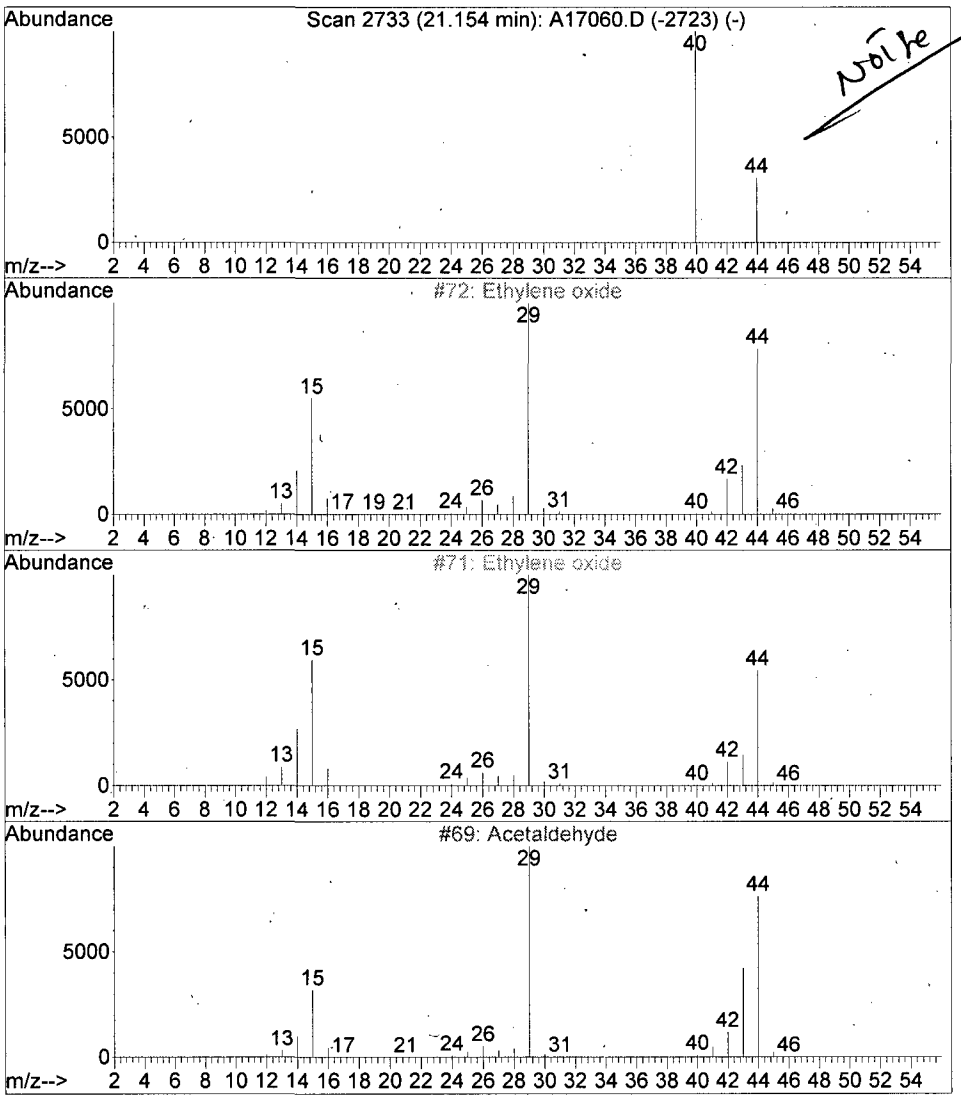
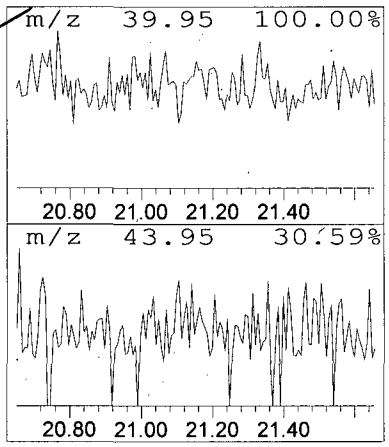
Peak Number 2 Ethylene oxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.15	0.71 ug/L	375402	1,4-Dichlorobenzene-d4	17.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	2
2	Ethylene oxide	44	C2H4O	000075-21-8	2
3	Acetaldehyde	44	C2H4O	000075-07-0	2
4	Acetaldehyde	44	C2H4O	000075-07-0	2
5	Ethylene oxide	44	C2H4O	000075-21-8	1





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/28/08

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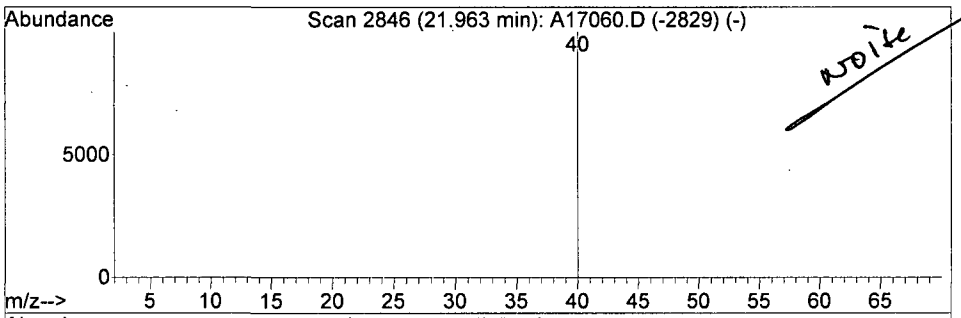
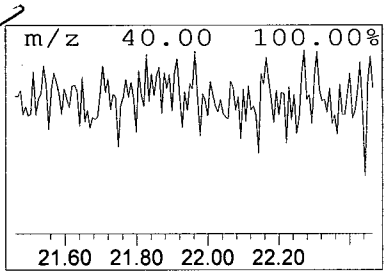
Peak Number 3 Allene Concentration Rank 1

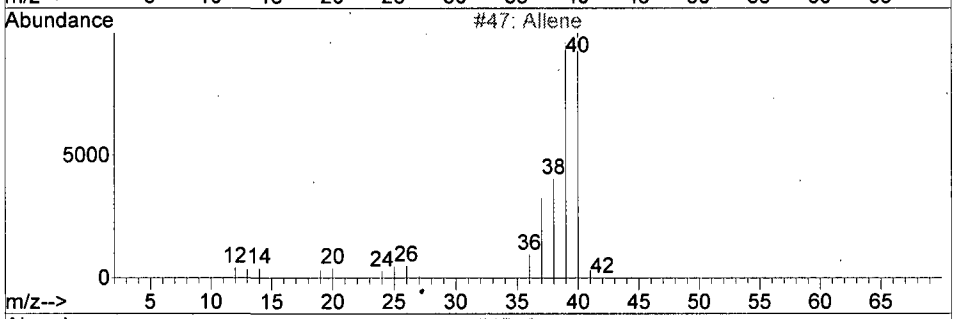
R.T.	EstConc	Area	Relative to ISTD	R.T.
21.96	0.76 ug/L	402801	1,4-Dichlorobenzene-d4	17.66

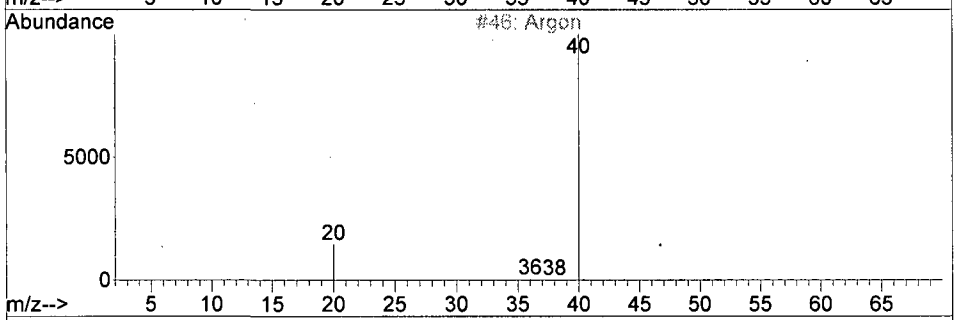
Hit# of 3	Tentative ID	MW	MolForm	CAS#	Qual
1	Allene	40	C3H4	000463-49-0	2
2	Argon	40	Ar	007440-37-1	2
3	Acetonitrile, hydroxy-	57	C2H3NO	000107-16-4	1

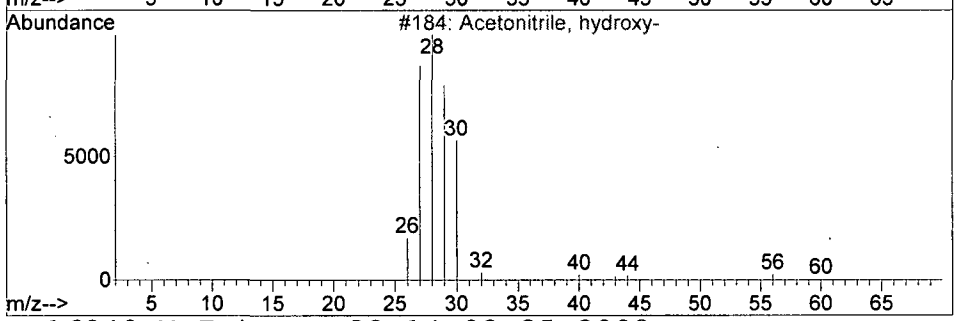


noise









Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17060.D
Acq On : 11/27/08 16:39 Operator: SB
Sample : F2XE7 Inst : A-5973
Misc : S-2066.04 25ML
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hydrogen chloride	19.44	0.6	ug/L	337707	3	17.66	2645620	5.0
Ethylene oxide	21.15	0.7	ug/L	375402	3	17.66	2645620	5.0
Allene	21.96	0.8	ug/L	402801	3	17.66	2645620	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17031

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	200	U
75-15-0	Carbon disulfide	20	U
79-20-9	Methyl acetate	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	200	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17031

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	180	D
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	200	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-Hexanone	200	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
95-47-6	o-Xylene	20	U
179601-23-1	m,p-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17031

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	320	DJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

11/28/08

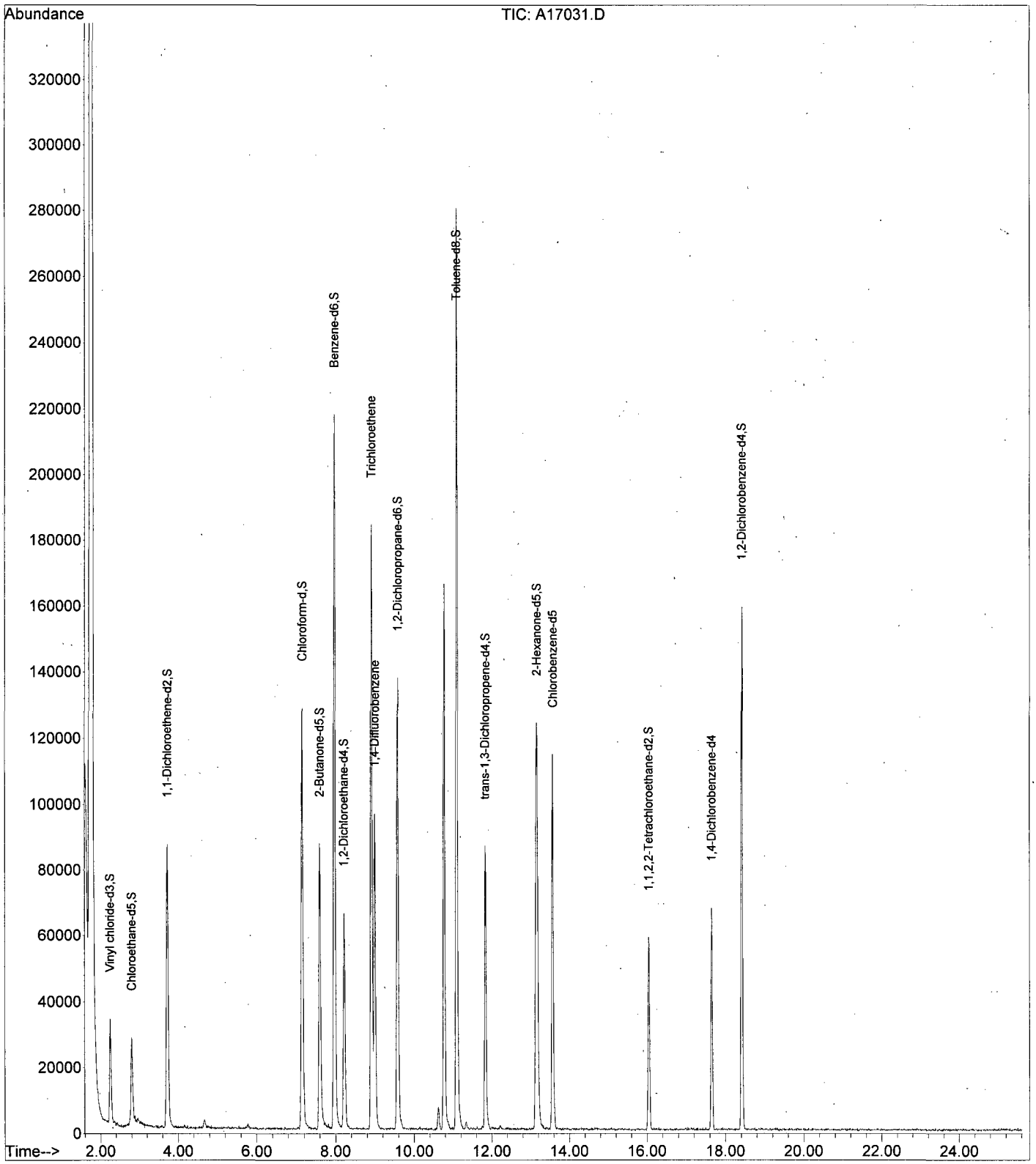
Quant Time: Nov 28 11:05:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1093867	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	973452	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	287210	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	548372	3.85	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 77.00%			
7) Chloroethane-d5	2.80	69	391882	4.65	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 93.00%			
10) 1,1-Dichloroethene-d2	3.72	63	1073854	3.06	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 61.20%			
21) 2-Butanone-d5	7.60	46	1697202	66.22	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 132.44%			
24) Chloroform-d	7.16	84	1491447	3.85	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 77.00%#			
26) 1,2-Dichloroethane-d4	8.22	65	716597	4.63	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 92.60%			
32) Benzene-d6	7.97	84	2961131	4.12	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 82.40%			
36) 1,2-Dichloropropane-d6	9.58	67	869728	4.08	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 81.60%			
41) Toluene-d8	11.10	98	2817478	4.28	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 85.60%			
43) trans-1,3-Dichloropropene-	11.83	79	692149	3.72	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 74.40%			
47) 2-Hexanone-d5	13.16	63	739547	68.92	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 137.84%#			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	451593	4.45	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 89.00%			
63) 1,2-Dichlorobenzene-d4	18.42	152	644588	4.94	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 98.80%			
Target Compounds						Qvalue
34) Trichloroethene	8.91	95	938512	4.54	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

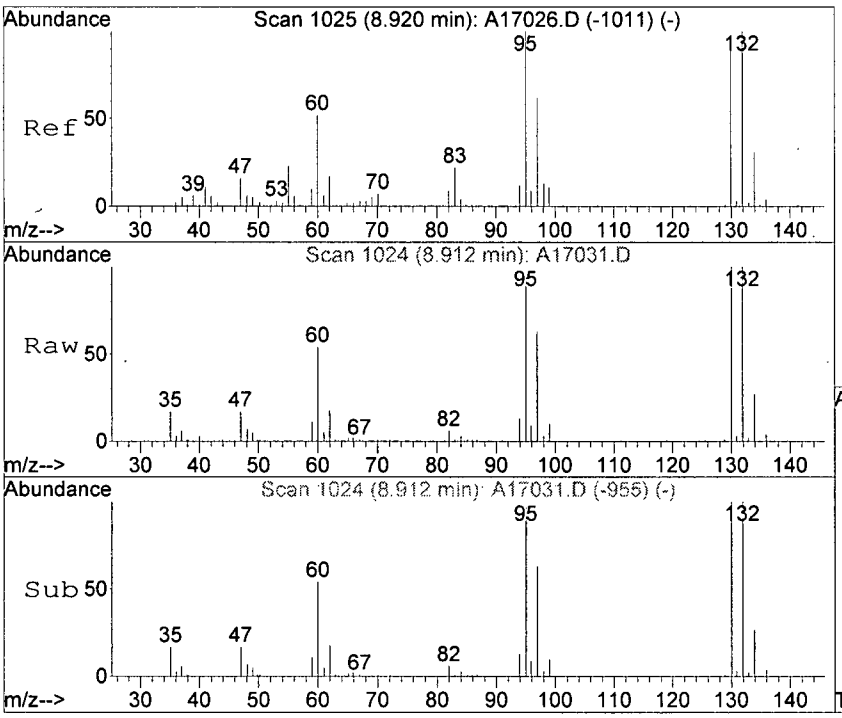
Data File: C:\MSDCHEM\1\DATA\A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 28 11:05:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



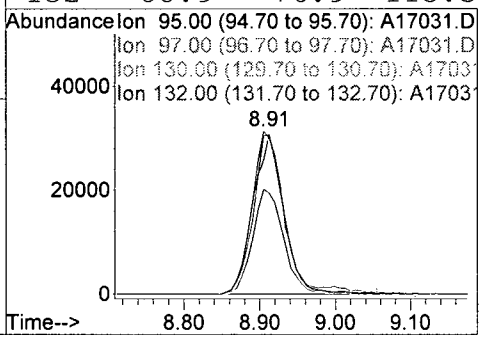
Data File : C:\MSDCHEM\1\DATA\A17031.D
Acq On : 11/26/08 20:43
Sample : F2XE7DL 40X
Misc : S-2066.04DL 25ML
MS Integration Params: LSCINT.E

Vial: 7
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 4.54 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.01 min
Integration Range:
Scan=1012 to 1045
R.T.= 8.83 to 9.06 (min)
Tgt Ion: 95 Resp: 938512

Ion	Ratio	Lower	Upper
95	100		
97	62.0	53.2	79.8
130	94.1	79.5	119.3
132	88.9	76.9	115.3



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.115	71	75	77	BV	353	2629	0.03%	0.003%
2	2.186	81	85	87	PV 3	550	6458	0.08%	0.008%
3	2.251	87	94	113	PV	31553	912856	11.69%	1.175%
4	2.430	113	119	125	VV 3	946	21666	0.28%	0.028%
5	2.487	125	127	131	PV 2	427	6040	0.08%	0.008%
6	2.530	131	133	135	VV	691	5375	0.07%	0.007%
7	2.559	135	137	138	PV 2	295	2728	0.03%	0.004%
8	2.623	138	146	151	VV 3	695	24609	0.32%	0.032%
9	2.680	151	154	157	VV 3	1005	21360	0.27%	0.028%
10	2.716	157	159	161	VV	1325	14901	0.19%	0.019%
11	2.802	161	171	185	VV	26933	964141	12.35%	1.241%
12	2.910	185	186	189	VV 3	2569	45411	0.58%	0.058%
13	2.960	189	193	199	VV 4	2921	94397	1.21%	0.122%
14	3.017	199	201	205	VV 3	1816	39185	0.50%	0.050%
15	3.060	205	207	209	VV 3	1668	23426	0.30%	0.030%
16	3.089	209	211	215	VV	1577	28290	0.36%	0.036%
17	3.125	215	216	229	VV 3	1308	50412	0.65%	0.065%
18	3.225	229	230	233	VV 2	819	10971	0.14%	0.014%
19	3.268	233	236	239	VV 2	807	16446	0.21%	0.021%
20	3.311	239	242	249	VV 2	861	23697	0.30%	0.031%
21	3.390	249	253	254	VV 3	460	9585	0.12%	0.012%
22	3.418	254	257	261	VV 2	719	16033	0.21%	0.021%
23	3.454	261	262	264	VV	661	4823	0.06%	0.006%
24	3.483	264	266	269	PV	783	7928	0.10%	0.010%
25	3.526	269	272	274	VV 2	562	7115	0.09%	0.009%
26	3.583	274	280	284	VV 2	883	22491	0.29%	0.029%
27	3.619	284	285	289	VV 2	471	8217	0.11%	0.011%
28	3.726	289	300	324	VV 2	84975	2918702	37.39%	3.758%
29	3.941	324	330	334	VV	804	22124	0.28%	0.028%
30	3.977	334	335	337	VV 2	462	5039	0.06%	0.006%
31	4.034	337	343	345	VV 2	636	13877	0.18%	0.018%
32	4.063	345	347	351	VV 2	670	11432	0.15%	0.015%
33	4.113	351	354	356	VV	697	9775	0.13%	0.013%
34	4.163	356	361	363	VV 2	1122	21861	0.28%	0.028%
35	4.192	363	365	367	VV	643	6950	0.09%	0.009%
36	4.221	367	369	375	VV 2	557	12008	0.15%	0.015%
37	4.292	375	379	380	PV	359	4554	0.06%	0.006%
38	4.314	380	382	384	VV	551	5219	0.07%	0.007%
39	4.342	384	386	388	VV	584	6686	0.09%	0.009%
40	4.385	388	392	398	VV 2	519	10623	0.14%	0.014%
41	4.435	398	399	408	VV	483	11026	0.14%	0.014%
42	4.550	408	415	424	VV 2	684	28092	0.36%	0.036%
43	4.679	424	433	439	VV 4	2789	93326	1.20%	0.120%
44	4.729	439	440	442	VV 2	990	10773	0.14%	0.014%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.758	442	444	452	VV 2	891	24371	0.31%	0.031%
46	4.844	452	456	458	VV	932	10365	0.13%	0.013%
47	4.872	458	460	464	VV 2	577	11118	0.14%	0.014%
48	4.937	464	469	473	VV	528	12215	0.16%	0.016%
49	4.973	473	474	475	VV	330	3020	0.04%	0.004%
50	5.001	475	478	484	VV 2	543	12771	0.16%	0.016%
51	5.059	484	486	492	VV 2	508	10621	0.14%	0.014%
52	5.116	492	494	497	VV 2	635	7248	0.09%	0.009%
53	5.152	497	499	509	VV	619	20895	0.27%	0.027%
54	5.238	509	511	513	VV	560	8250	0.11%	0.011%
55	5.274	513	516	521	VV 2	746	17617	0.23%	0.023%
56	5.324	521	523	525	VV 2	402	4028	0.05%	0.005%
57	5.345	525	526	529	VV	408	5482	0.07%	0.007%
58	5.381	529	531	535	VV	728	11947	0.15%	0.015%
59	5.453	535	541	544	VV	522	14549	0.19%	0.019%
60	5.481	544	545	550	VV 2	493	9534	0.12%	0.012%
61	5.546	550	554	561	VV 2	879	17251	0.22%	0.022%
62	5.667	561	571	573	VV 2	575	18548	0.24%	0.024%
63	5.732	573	580	582	VV	832	17143	0.22%	0.022%
64	5.782	582	587	598	VV 2	1615	55365	0.71%	0.071%
65	5.868	598	599	604	VV 2	445	9522	0.12%	0.012%
66	5.918	604	606	609	VV	571	6870	0.09%	0.009%
67	5.961	609	612	615	VV	700	9979	0.13%	0.013%
68	5.997	615	617	635	VV 2	708	29650	0.38%	0.038%
69	6.147	635	638	643	VV	452	14142	0.18%	0.018%
70	6.205	643	646	650	VV 2	450	10428	0.13%	0.013%
71	6.255	650	653	655	VV 2	608	10099	0.13%	0.013%
72	6.291	655	658	660	VV 2	680	9563	0.12%	0.012%
73	6.326	660	663	666	VV 2	667	11443	0.15%	0.015%
74	6.362	666	668	670	VV	603	6735	0.09%	0.009%
75	6.391	670	672	678	VV 2	574	15883	0.20%	0.020%
76	6.441	678	679	684	VV 2	608	10816	0.14%	0.014%
77	6.491	684	686	689	VV 2	663	10425	0.13%	0.013%
78	6.520	689	690	692	VV 2	688	7744	0.10%	0.010%
79	6.549	692	694	697	VV 2	606	9717	0.12%	0.013%
80	6.599	697	701	708	VV	685	18903	0.24%	0.024%
81	6.713	708	717	726	VV 3	918	31186	0.40%	0.040%
82	6.842	726	735	738	VV 2	612	23256	0.30%	0.030%
83	6.892	738	742	745	VV 2	649	13170	0.17%	0.017%
84	6.935	745	748	758	VV 2	742	24320	0.31%	0.031%
85	7.043	758	763	768	VV 2	884	27927	0.36%	0.036%
86	7.157	768	779	792	VV	126981	3966953	50.81%	5.108%
87	7.265	792	794	802	VV 3	1942	59073	0.76%	0.076%
88	7.336	802	804	806	VV 2	1044	15695	0.20%	0.020%
89	7.365	806	808	811	VV 2	945	13329	0.17%	0.017%
90	7.422	811	816	818	VV 2	750	19728	0.25%	0.025%
91	7.451	818	820	828	VV	839	26370	0.34%	0.034%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.601	828	841	856	VV		86758	2825394	36.19%	3.638%
93	7.730	856	859	861	VV	2	2545	43552	0.56%	0.056%
94	7.759	861	863	865	VV		1692	20962	0.27%	0.027%
95	7.781	865	866	869	VV		1440	21727	0.28%	0.028%
96	7.816	869	871	877	VV	2	1869	41245	0.53%	0.053%
97	7.874	877	879	881	VV		1051	15293	0.20%	0.020%
98	7.974	881	893	913	VV		215164	6560073	84.03%	8.447%
99	8.146	913	917	918	VV	3	1485	30822	0.39%	0.040%
100	8.225	918	928	942	VV		64867	2062939	26.42%	2.656%
101	8.332	942	943	946	VV		1493	19562	0.25%	0.025%
102	8.368	946	948	950	VV	2	872	13114	0.17%	0.017%
103	8.397	950	952	957	VV	2	888	18826	0.24%	0.024%
104	8.447	957	959	960	VV		734	9360	0.12%	0.012%
105	8.483	960	964	969	VV	2	841	27477	0.35%	0.035%
106	8.540	969	972	975	VV	2	1076	18489	0.24%	0.024%
107	8.576	975	977	979	VV		836	12355	0.16%	0.016%
108	8.619	979	983	988	VV	2	867	27743	0.36%	0.036%
109	8.697	988	994	996	VV	2	1076	24013	0.31%	0.031%
110	8.726	996	998	1002	VV	2	792	17789	0.23%	0.023%
111	8.805	1002	1009	1011	VV	2	872	26323	0.34%	0.034%
112	8.912	1011	1024	1031	VV		183488	5191619	66.50%	6.685%
113	8.998	1031	1036	1057	VV		96650	2921493	37.42%	3.762%
114	9.170	1057	1060	1062	VV	2	1040	16110	0.21%	0.021%
115	9.199	1062	1064	1070	VV		970	25037	0.32%	0.032%
116	9.278	1070	1075	1078	VV	2	980	27678	0.35%	0.036%
117	9.335	1078	1083	1085	VV		1000	24160	0.31%	0.031%
118	9.364	1085	1087	1089	VV		882	11267	0.14%	0.015%
119	9.392	1089	1091	1094	VV		1053	18688	0.24%	0.024%
120	9.421	1094	1095	1097	VV		885	10941	0.14%	0.014%
121	9.450	1097	1099	1102	VV	2	1058	18206	0.23%	0.023%
122	9.493	1102	1105	1107	VV	2	1004	16978	0.22%	0.022%
123	9.586	1107	1118	1136	VV	2	135620	4228433	54.16%	5.445%
124	9.729	1136	1138	1143	VV	2	1087	28192	0.36%	0.036%
125	9.786	1143	1146	1151	VV		1058	31073	0.40%	0.040%
126	9.829	1151	1152	1155	VV		1010	14942	0.19%	0.019%
127	9.894	1155	1161	1163	VV		1250	28665	0.37%	0.037%
128	9.922	1163	1165	1170	VV	2	1105	27178	0.35%	0.035%
129	9.965	1170	1171	1173	VV		926	11076	0.14%	0.014%
130	9.987	1173	1174	1176	VV		1089	11838	0.15%	0.015%
131	10.015	1176	1178	1180	VV		925	13280	0.17%	0.017%
132	10.044	1180	1182	1185	VV	2	1051	20747	0.27%	0.027%
133	10.080	1185	1187	1189	VV	2	794	9866	0.13%	0.013%
134	10.152	1189	1197	1200	VV		1373	47952	0.61%	0.062%
135	10.202	1200	1204	1206	VV	2	1080	19382	0.25%	0.025%
136	10.245	1206	1210	1213	VV	2	1068	26852	0.34%	0.035%
137	10.273	1213	1214	1218	VV		1092	20239	0.26%	0.026%
138	10.316	1218	1220	1225	VV		1130	25282	0.32%	0.033%
139	10.374	1225	1228	1229	VV	2	1050	13939	0.18%	0.018%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.395	1229	1231	1233	VV		999	12191	0.16%	0.016%
141	10.417	1233	1234	1236	VV		1170	14990	0.19%	0.019%
142	10.445	1236	1238	1245	VV	2	1186	31026	0.40%	0.040%
143	10.517	1245	1248	1257	VV		707	37883	0.49%	0.049%
144	10.624	1257	1263	1273	VV	4	7738	246621	3.16%	0.318%
145	10.775	1273	1284	1309	VV		167522	4708518	60.31%	6.063%
146	10.968	1309	1311	1313	VV		1291	18791	0.24%	0.024%
147	10.997	1313	1315	1318	VV		1499	25430	0.33%	0.033%
148	11.097	1318	1329	1345	VV		280425	7807142	100.00%	10.053%
149	11.226	1345	1347	1356	VV	2	2208	60902	0.78%	0.078%
150	11.341	1356	1363	1375	VV	4	3142	138553	1.77%	0.178%
151	11.455	1375	1379	1386	VV	2	1514	55869	0.72%	0.072%
152	11.527	1386	1389	1394	VV	2	1345	37052	0.47%	0.048%
153	11.577	1394	1396	1397	VV		1094	13522	0.17%	0.017%
154	11.613	1397	1401	1404	VV	2	1630	36818	0.47%	0.047%
155	11.649	1404	1406	1408	VV	2	1178	15086	0.19%	0.019%
156	11.670	1408	1409	1411	VV	2	1177	16518	0.21%	0.021%
157	11.720	1411	1416	1418	VV	2	1293	31831	0.41%	0.041%
158	11.749	1418	1420	1423	VV		1929	37934	0.49%	0.049%
159	11.835	1423	1432	1451	VV	3	87191	2522867	32.31%	3.249%
160	12.000	1451	1455	1458	VV	2	1679	37637	0.48%	0.048%
161	12.028	1458	1459	1464	VV	2	1603	39213	0.50%	0.050%
162	12.086	1464	1467	1471	VV		1609	35234	0.45%	0.045%
163	12.121	1471	1472	1475	VV	2	1369	20388	0.26%	0.026%
164	12.179	1475	1480	1482	VV	2	1412	34418	0.44%	0.044%
165	12.207	1482	1484	1489	VV	2	2178	58433	0.75%	0.075%
166	12.257	1489	1491	1493	VV		1521	19217	0.25%	0.025%
167	12.286	1493	1495	1500	VV	2	1229	35190	0.45%	0.045%
168	12.358	1500	1505	1508	VV		1418	42930	0.55%	0.055%
169	12.394	1508	1510	1512	VV	2	1536	19551	0.25%	0.025%
170	12.415	1512	1513	1521	VV	2	1547	49802	0.64%	0.064%
171	12.487	1521	1523	1525	VV		1388	17364	0.22%	0.022%
172	12.537	1525	1530	1534	VV	2	1432	44702	0.57%	0.058%
173	12.580	1534	1536	1538	VV	2	1418	19147	0.25%	0.025%
174	12.608	1538	1540	1544	VV	2	1363	26496	0.34%	0.034%
175	12.659	1544	1547	1552	VV		1504	41199	0.53%	0.053%
176	12.730	1552	1557	1559	VV		1351	33688	0.43%	0.043%
177	12.759	1559	1561	1575	VV	2	1532	87092	1.12%	0.112%
178	12.873	1575	1577	1579	VV		1201	17362	0.22%	0.022%
179	12.902	1579	1581	1583	VV		1360	18414	0.24%	0.024%
180	12.924	1583	1584	1586	VV		1128	14045	0.18%	0.018%
181	12.967	1586	1590	1596	VV	3	1469	53887	0.69%	0.069%
182	13.024	1596	1598	1602	VV		1541	30917	0.40%	0.040%
183	13.160	1602	1617	1635	VV	3	124558	5255999	67.32%	6.768%
184	13.296	1635	1636	1639	VV		2608	39367	0.50%	0.051%
185	13.332	1639	1641	1649	VV	2	2073	65505	0.84%	0.084%
186	13.404	1649	1651	1653	VV	2	1850	28649	0.37%	0.037%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.432	1653	1655	1665	VV 2	1605	67418	0.86%	0.087%
188	13.568	1665	1674	1687	VV	115205	3230288	41.38%	4.160%
189	13.683	1687	1690	1692	VV	1735	29842	0.38%	0.038%
190	13.719	1692	1695	1697	VV 2	1483	30941	0.40%	0.040%
191	13.747	1697	1699	1701	VV	1652	22259	0.29%	0.029%
192	13.769	1701	1702	1706	VV	1475	26026	0.33%	0.034%
193	13.833	1706	1711	1714	VV 2	1615	42402	0.54%	0.055%
194	13.883	1714	1718	1724	VV 2	1599	57706	0.74%	0.074%
195	13.941	1724	1726	1735	VV 2	1629	65570	0.84%	0.084%
196	14.020	1735	1737	1740	VV 2	1300	23111	0.30%	0.030%
197	14.084	1740	1746	1750	VV 3	1516	60865	0.78%	0.078%
198	14.134	1750	1753	1770	VV 2	1644	106503	1.36%	0.137%
199	14.299	1770	1776	1778	VV 2	1766	53948	0.69%	0.069%
200	14.342	1778	1782	1786	VV 2	1650	42655	0.55%	0.055%
201	14.385	1786	1788	1793	VV 2	1624	41415	0.53%	0.053%
202	14.435	1793	1795	1797	VV 2	1633	29227	0.37%	0.038%
203	14.471	1797	1800	1806	VV 2	1493	49351	0.63%	0.064%
204	14.528	1806	1808	1810	VV	1561	20548	0.26%	0.026%
205	14.571	1810	1814	1821	VV 2	1666	66425	0.85%	0.086%
206	14.657	1821	1826	1828	VV 2	1827	40536	0.52%	0.052%
207	14.707	1828	1833	1835	VV 3	1851	47873	0.61%	0.062%
208	14.736	1835	1837	1844	VV	1676	57617	0.74%	0.074%
209	14.808	1844	1847	1849	VV	1430	24995	0.32%	0.032%
210	14.843	1849	1852	1855	VV	1610	36218	0.46%	0.047%
211	14.886	1855	1858	1863	VV 2	1641	51207	0.66%	0.066%
212	14.936	1863	1865	1872	VV 2	1592	53701	0.69%	0.069%
213	15.001	1872	1874	1876	VV 2	1502	19141	0.25%	0.025%
214	15.058	1876	1882	1884	VV 2	1713	50274	0.64%	0.065%
215	15.080	1884	1885	1891	VV 2	1763	42716	0.55%	0.055%
216	15.144	1891	1894	1899	VV 2	1544	49579	0.64%	0.064%
217	15.194	1899	1901	1905	VV 2	1460	32113	0.41%	0.041%
218	15.252	1905	1909	1911	VV	1570	33896	0.43%	0.044%
219	15.273	1911	1912	1914	VV 2	1606	19783	0.25%	0.025%
220	15.302	1914	1916	1918	VV 2	1664	29654	0.38%	0.038%
221	15.359	1918	1924	1930	VV 2	1729	75059	0.96%	0.097%
222	15.438	1930	1935	1937	VV 2	1635	45124	0.58%	0.058%
223	15.467	1937	1939	1941	VV 2	1499	24304	0.31%	0.031%
224	15.495	1941	1943	1947	VV 2	1511	30836	0.39%	0.040%
225	15.538	1947	1949	1952	VV 2	1668	33122	0.42%	0.043%
226	15.574	1952	1954	1957	VV 2	1346	30085	0.39%	0.039%
227	15.610	1957	1959	1964	VV 2	1571	38174	0.49%	0.049%
228	15.660	1964	1966	1969	VV	1572	31200	0.40%	0.040%
229	15.724	1969	1975	1978	VV 2	1594	53437	0.68%	0.069%
230	15.782	1978	1983	1985	VV 2	1738	46468	0.60%	0.060%
231	15.810	1985	1987	1991	VV 2	1547	34641	0.44%	0.045%
232	15.860	1991	1994	1996	VV 2	1686	36602	0.47%	0.047%
233	15.911	1996	2001	2003	VV 2	1592	41608	0.53%	0.054%
234	15.939	2003	2005	2006	VV	1418	21416	0.27%	0.028%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.968	2006	2009	2011	VV		1681	27460	0.35%	0.035%
236	16.047	2011	2020	2031	VV	2	59495	1706464	21.86%	2.197%
237	16.176	2031	2038	2040	VV		1979	63918	0.82%	0.082%
238	16.219	2040	2044	2046	VV		1819	42266	0.54%	0.054%
239	16.247	2046	2048	2053	VV	2	1893	44855	0.57%	0.058%
240	16.297	2053	2055	2060	VV		2050	47551	0.61%	0.061%
241	16.348	2060	2062	2067	VV	2	1705	49260	0.63%	0.063%
242	16.426	2067	2073	2083	VV		1674	96473	1.24%	0.124%
243	16.505	2083	2084	2095	VV	2	1749	79776	1.02%	0.103%
244	16.591	2095	2096	2102	VV		1853	47818	0.61%	0.062%
245	16.648	2102	2104	2107	VV		1614	34428	0.44%	0.044%
246	16.699	2107	2111	2112	VV	2	1756	33423	0.43%	0.043%
247	16.720	2112	2114	2116	VV		1776	23157	0.30%	0.030%
248	16.749	2116	2118	2124	VV	2	1870	54676	0.70%	0.070%
249	16.849	2124	2132	2134	VV		1780	65632	0.84%	0.085%
250	16.878	2134	2136	2139	VV	2	1780	33375	0.43%	0.043%
251	16.906	2139	2140	2146	VV	2	1618	48113	0.62%	0.062%
252	16.985	2146	2151	2155	VV	2	2048	69200	0.89%	0.089%
253	17.035	2155	2158	2161	VV		2084	42545	0.54%	0.055%
254	17.071	2161	2163	2166	VV	2	1876	34446	0.44%	0.044%
255	17.128	2166	2171	2172	VV	2	2171	49131	0.63%	0.063%
256	17.150	2172	2174	2176	VV		1996	27342	0.35%	0.035%
257	17.186	2176	2179	2184	VV		2042	55219	0.71%	0.071%
258	17.236	2184	2186	2192	VV	2	1727	60541	0.78%	0.078%
259	17.293	2192	2194	2196	VV		1966	25378	0.33%	0.033%
260	17.322	2196	2198	2199	VV	2	1636	20825	0.27%	0.027%
261	17.358	2199	2203	2209	VV	2	1859	72165	0.92%	0.093%
262	17.415	2209	2211	2213	VV		2125	30610	0.39%	0.039%
263	17.444	2213	2215	2218	VV		1806	37674	0.48%	0.049%
264	17.479	2218	2220	2224	VV		1743	43647	0.56%	0.056%
265	17.522	2224	2226	2227	VV	2	1725	21606	0.28%	0.028%
266	17.551	2227	2230	2232	VV	2	1769	34497	0.44%	0.044%
267	17.580	2232	2234	2235	VV		1877	22707	0.29%	0.029%
268	17.651	2235	2244	2258	VV		68648	1833729	23.49%	2.361%
269	17.773	2258	2261	2265	VV		2050	49626	0.64%	0.064%
270	17.816	2265	2267	2271	VV	2	1875	47823	0.61%	0.062%
271	17.859	2271	2273	2275	VV		1757	29538	0.38%	0.038%
272	17.888	2275	2277	2285	VV	2	2086	77026	0.99%	0.099%
273	17.981	2285	2290	2293	VV	2	1906	56742	0.73%	0.073%
274	18.017	2293	2295	2298	VV	2	1936	39532	0.51%	0.051%
275	18.081	2298	2304	2308	VV	2	2085	74812	0.96%	0.096%
276	18.138	2308	2312	2320	VV	2	1951	96189	1.23%	0.124%
277	18.210	2320	2322	2324	VV		1845	27078	0.35%	0.035%
278	18.231	2324	2325	2327	VV		2028	26030	0.33%	0.034%
279	18.274	2327	2331	2333	VV	2	1970	48534	0.62%	0.062%
280	18.325	2333	2338	2340	VV	2	1943	48014	0.62%	0.062%
281	18.418	2340	2351	2364	VV		159793	4230731	54.19%	5.448%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.525	2364	2366	2378	VV	2064	114476	1.47%	0.147%
283	18.633	2378	2381	2383	VV 2	1897	39788	0.51%	0.051%
284	18.668	2383	2386	2388	VV 2	2071	38392	0.49%	0.049%
285	18.697	2388	2390	2393	VV 2	2129	45667	0.58%	0.059%
286	18.740	2393	2396	2401	VV	2298	63002	0.81%	0.081%
287	18.790	2401	2403	2405	VV	1932	26236	0.34%	0.034%
288	18.819	2405	2407	2408	VV 2	1829	22910	0.29%	0.030%
289	18.840	2408	2410	2416	VV 2	2172	68935	0.88%	0.089%
290	18.905	2416	2419	2428	VV	2295	103790	1.33%	0.134%
291	19.012	2428	2434	2438	VV 2	2059	80400	1.03%	0.104%
292	19.048	2438	2439	2449	VV 2	2123	86148	1.10%	0.111%
293	19.134	2449	2451	2458	VV	2219	74853	0.96%	0.096%
294	19.191	2458	2459	2461	VV	2047	25166	0.32%	0.032%
295	19.220	2461	2463	2465	VV 2	2119	37985	0.49%	0.049%
296	19.256	2465	2468	2472	VV 2	2206	57463	0.74%	0.074%
297	19.306	2472	2475	2478	VV 2	2363	53360	0.68%	0.069%
298	19.335	2478	2479	2484	VV	2070	42832	0.55%	0.055%
299	19.385	2484	2486	2488	VV 2	2137	35745	0.46%	0.046%
300	19.413	2488	2490	2493	VV	2038	38724	0.50%	0.050%
301	19.449	2493	2495	2498	VV 2	2198	40390	0.52%	0.052%
302	19.492	2498	2501	2503	VV	2263	45918	0.59%	0.059%
303	19.521	2503	2505	2507	VV 2	2156	33657	0.43%	0.043%
304	19.585	2507	2514	2518	VV 2	2069	87082	1.12%	0.112%
305	19.628	2518	2520	2526	VV 2	2347	69065	0.88%	0.089%
306	19.693	2526	2529	2532	VV	2357	56826	0.73%	0.073%
307	19.743	2532	2536	2537	VV 2	1936	38367	0.49%	0.049%
308	19.793	2537	2543	2545	VV 2	2261	71562	0.92%	0.092%
309	19.829	2545	2548	2552	VV 2	2340	63975	0.82%	0.082%
310	19.872	2552	2554	2557	VV	2179	37953	0.49%	0.049%
311	19.922	2557	2561	2563	VV 2	2246	54871	0.70%	0.071%
312	19.994	2563	2571	2574	VV	2401	96756	1.24%	0.125%
313	20.029	2574	2576	2580	VV 2	2320	44565	0.57%	0.057%
314	20.065	2580	2581	2583	VV 2	2059	28756	0.37%	0.037%
315	20.094	2583	2585	2587	VV	2073	33923	0.43%	0.044%
316	20.122	2587	2589	2592	VV 2	2328	43220	0.55%	0.056%
317	20.158	2592	2594	2604	VV 2	2018	97635	1.25%	0.126%
318	20.244	2604	2606	2608	VV	2381	38759	0.50%	0.050%
319	20.266	2608	2609	2611	VV 2	2200	28145	0.36%	0.036%
320	20.294	2611	2613	2615	VV	2252	34786	0.45%	0.045%
321	20.330	2615	2618	2630	VV 2	2201	134059	1.72%	0.173%
322	20.430	2630	2632	2634	VV 2	2145	30348	0.39%	0.039%
323	20.452	2634	2635	2637	VV	2262	33581	0.43%	0.043%
324	20.481	2637	2639	2641	VV 2	2073	30085	0.39%	0.039%
325	20.509	2641	2643	2646	VV 2	2152	48306	0.62%	0.062%
326	20.624	2646	2659	2664	VV 2	2434	159011	2.04%	0.205%
327	20.703	2664	2670	2675	VV 2	2242	102165	1.31%	0.132%
328	20.753	2675	2677	2681	VV 2	2289	46859	0.60%	0.060%
329	20.789	2681	2682	2684	VV	2158	29670	0.38%	0.038%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.810	2684	2685	2693	VV 2	2210	78552	1.01%	0.101%
331	20.882	2693	2695	2696	VV 2	2126	27181	0.35%	0.035%
332	20.903	2696	2698	2701	VV	2216	39021	0.50%	0.050%
333	20.982	2701	2709	2715	VV 2	2396	137033	1.76%	0.176%
334	21.047	2715	2718	2724	VV	2342	81464	1.04%	0.105%
335	21.104	2724	2726	2728	VV 2	2453	35144	0.45%	0.045%
336	21.168	2728	2735	2736	VV 2	2499	77258	0.99%	0.099%
337	21.190	2736	2738	2743	VV	2471	58951	0.76%	0.076%
338	21.240	2743	2745	2747	VV	2399	42334	0.54%	0.055%
339	21.269	2747	2749	2752	VV	2317	46922	0.60%	0.060%
340	21.304	2752	2754	2755	VV	2115	25817	0.33%	0.033%
341	21.326	2755	2757	2763	VV 2	2311	73871	0.95%	0.095%
342	21.376	2763	2764	2769	VV 2	2512	55606	0.71%	0.072%
343	21.448	2769	2774	2778	VV 2	2373	84956	1.09%	0.109%
344	21.498	2778	2781	2786	VV 2	2426	70951	0.91%	0.091%
345	21.555	2786	2789	2795	VV 2	2329	82406	1.06%	0.106%
346	21.605	2795	2796	2800	VV 2	2351	46411	0.59%	0.060%
347	21.655	2800	2803	2807	VV	2470	70829	0.91%	0.091%
348	21.698	2807	2809	2812	VV	2234	44577	0.57%	0.057%
349	21.734	2812	2814	2819	VV 2	2243	60765	0.78%	0.078%
350	21.777	2819	2820	2823	VV	2295	45532	0.58%	0.059%
351	21.813	2823	2825	2827	VV 2	2313	38435	0.49%	0.049%
352	21.849	2827	2830	2832	VV	2266	42007	0.54%	0.054%
353	21.877	2832	2834	2835	VV	2544	34788	0.45%	0.045%
354	21.899	2835	2837	2839	VV	2516	42317	0.54%	0.054%
355	21.935	2839	2842	2847	VV 2	2305	68087	0.87%	0.088%
356	21.985	2847	2849	2851	VV	2534	41936	0.54%	0.054%
357	22.057	2851	2859	2864	VV 2	2454	119587	1.53%	0.154%
358	22.099	2864	2865	2875	VV 2	2258	101801	1.30%	0.131%
359	22.178	2875	2876	2880	VV 2	2317	48931	0.63%	0.063%
360	22.221	2880	2882	2889	VV	2317	86841	1.11%	0.112%
361	22.300	2889	2893	2896	VV	2566	70864	0.91%	0.091%
362	22.350	2896	2900	2902	VV 2	2499	64463	0.83%	0.083%
363	22.386	2902	2905	2907	VV	2452	45181	0.58%	0.058%
364	22.436	2907	2912	2917	VV	2494	100668	1.29%	0.130%
365	22.493	2917	2920	2924	VV 2	2479	64604	0.83%	0.083%
366	22.529	2924	2925	2927	VV	2364	34548	0.44%	0.044%
367	22.572	2927	2931	2938	VV 2	2515	105761	1.35%	0.136%
368	22.630	2938	2939	2941	VV	2258	31197	0.40%	0.040%
369	22.658	2941	2943	2947	VV	2519	56227	0.72%	0.072%
370	22.701	2947	2949	2951	VV 2	2484	45016	0.58%	0.058%
371	22.730	2951	2953	2955	VV	2306	37967	0.49%	0.049%
372	22.766	2955	2958	2964	VV 2	2426	90247	1.16%	0.116%
373	22.823	2964	2966	2968	VV	2475	41247	0.53%	0.053%
374	22.852	2968	2970	2974	VV 2	2584	60385	0.77%	0.078%
375	22.902	2974	2977	2983	VV 2	2732	96219	1.23%	0.124%
376	22.959	2983	2985	2985	VBA	2472	17568	0.23%	0.023%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

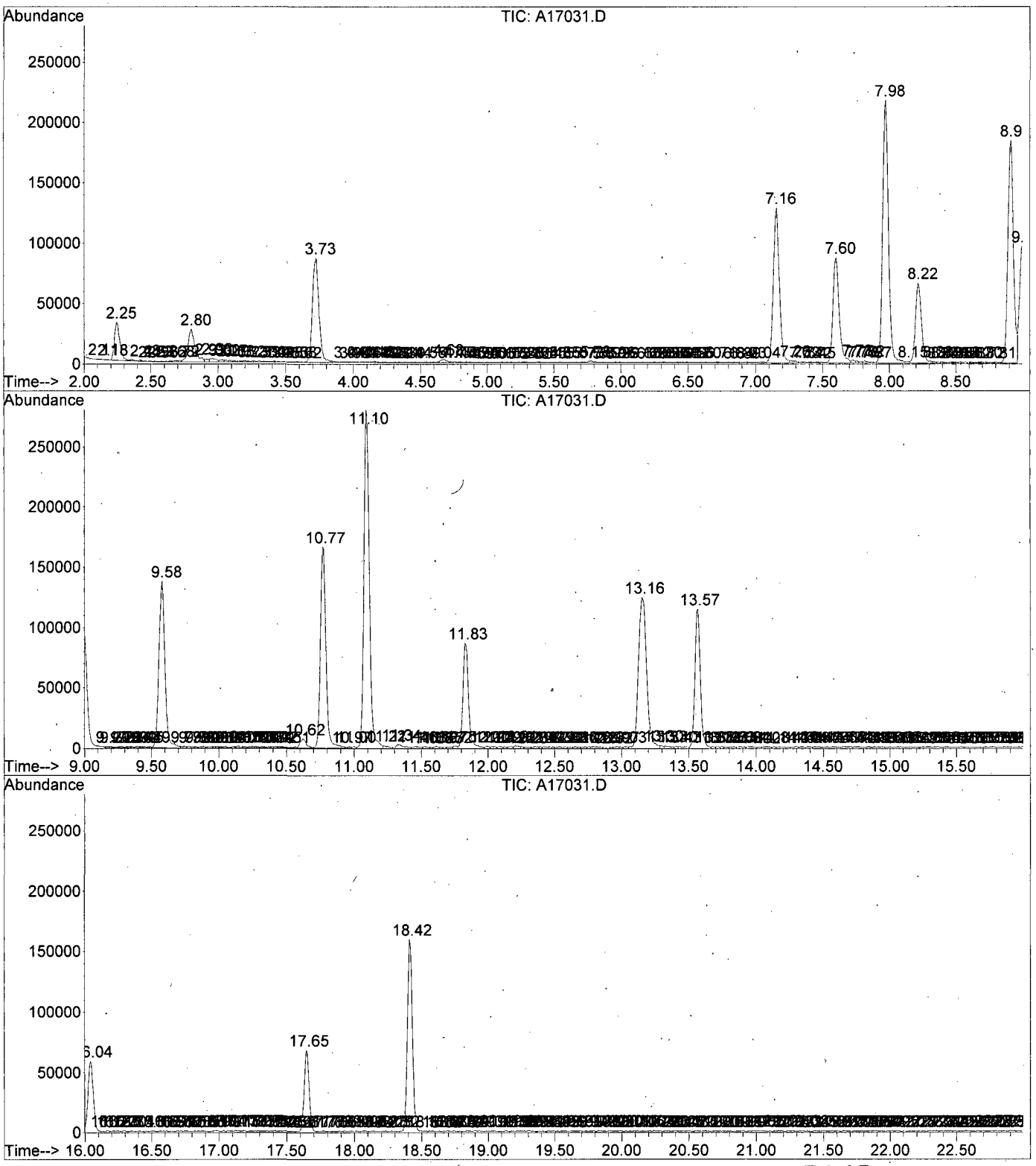
Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Sum of corrected areas: 77660191

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

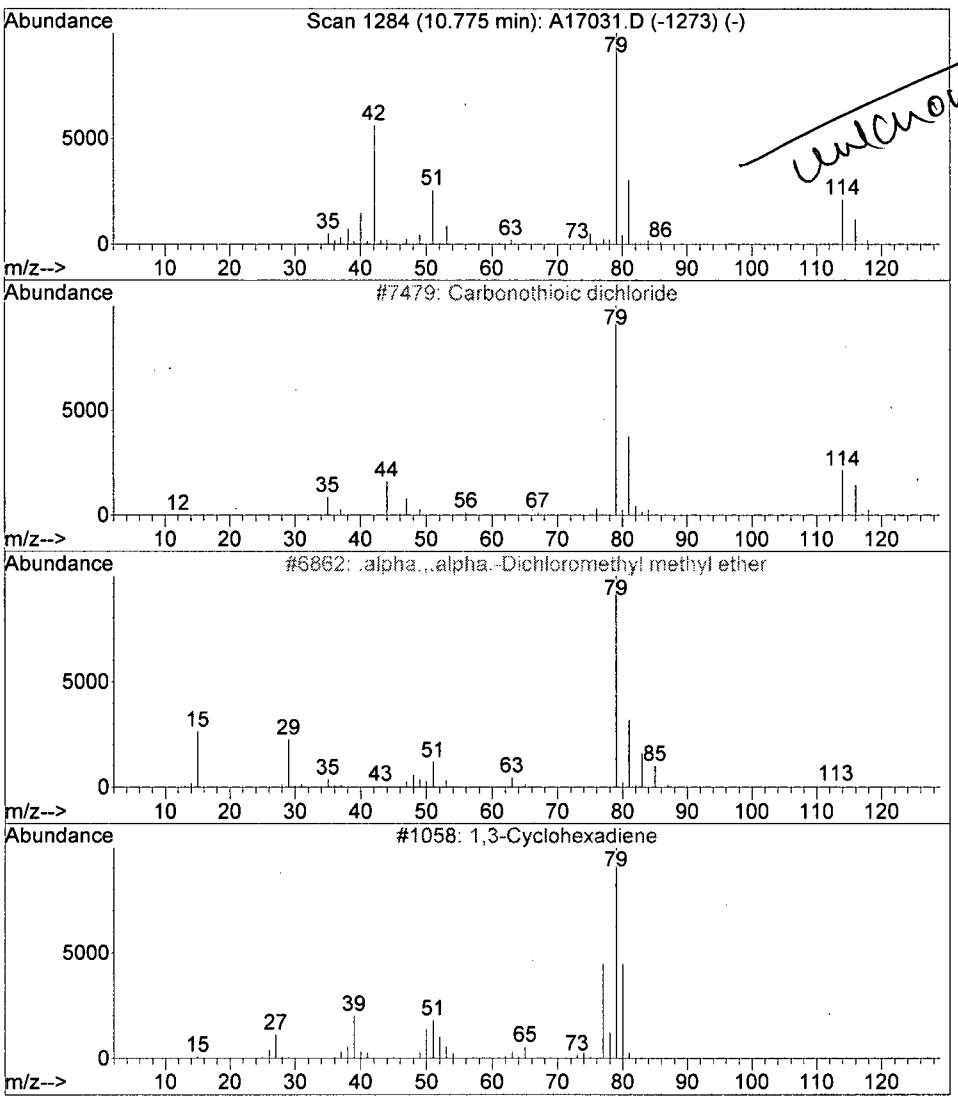
11/28/08

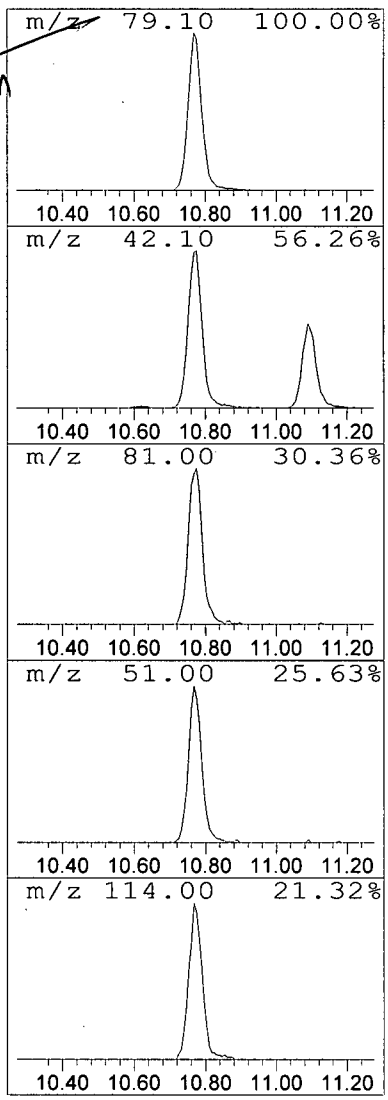
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	8.06 ug/L	4708520	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	25
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
5	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17031.D
Acq On : 11/26/08 20:43 Operator: SB
Sample : F2XE7DL 40X Inst : A-5973
Misc : S-2066.04DL 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	8.1	ug/L	4708520	1	9.00	2921490	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19503

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19503

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19503

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	1100	JB
02		Unknown-02	2.24	20	J
03		Unknown-03	9.84	8.9	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 14:30:08 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration

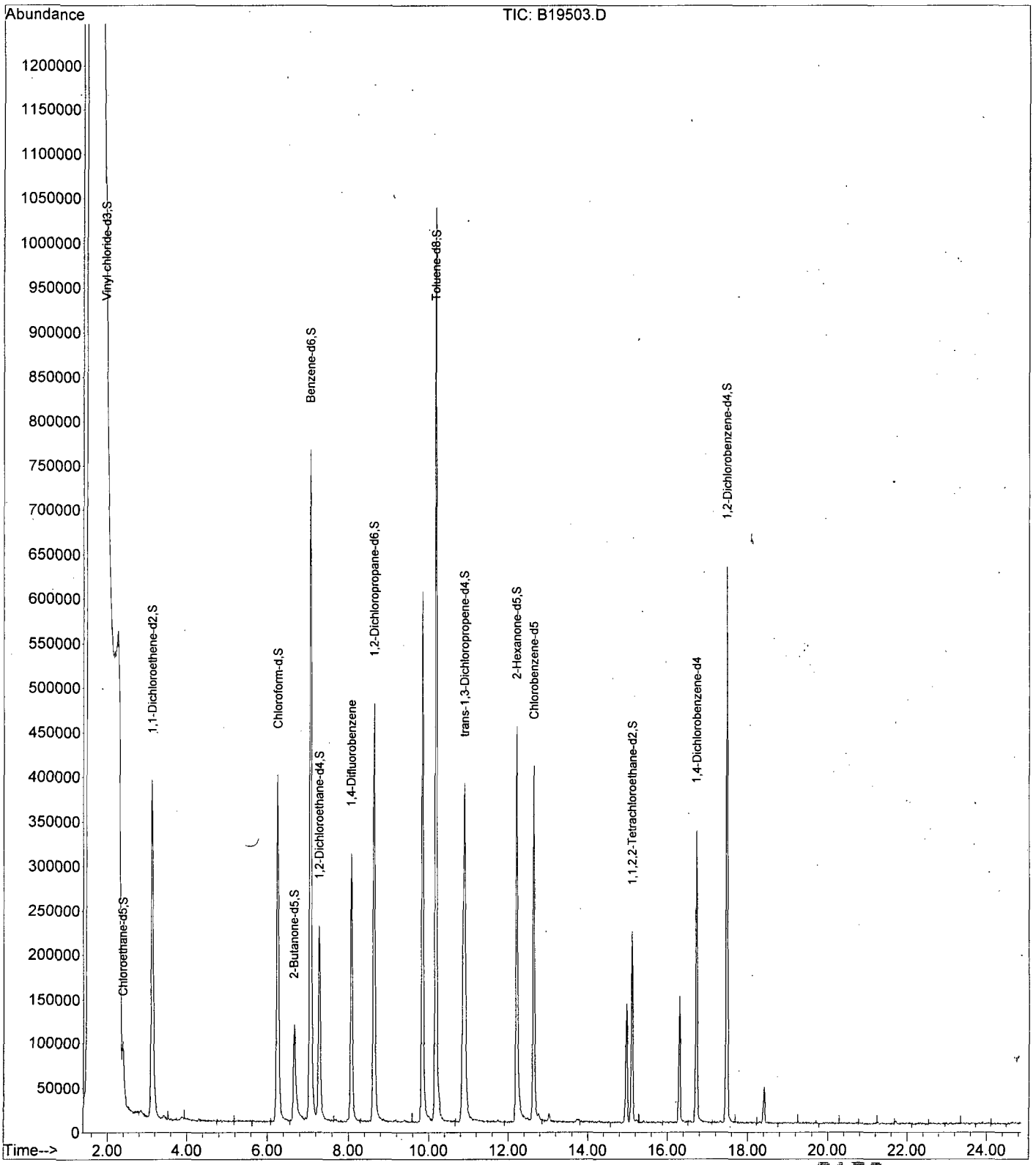
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	3876274	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	3422142	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1317497	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	3030688	5.50	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 110.00%			
7) Chloroethane-d5	2.39	69	1405829	5.62	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 112.40%			
10) 1,1-Dichloroethene-d2	3.12	63	5282747	4.77	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 95.40%			
21) 2-Butanone-d5	6.66	46	3015909	52.07	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 104.14%			
24) Chloroform-d	6.25	84	5705327	5.21	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 104.20%			
26) 1,2-Dichloroethane-d4	7.28	65	2722105	5.52	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 110.40%			
32) Benzene-d6	7.06	84	11581020	5.30	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 106.00%			
36) 1,2-Dichloropropane-d6	8.63	67	3458465	5.23	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 104.60%			
41) Toluene-d8	10.17	98	10330478	5.22	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 104.40%			
43) trans-1,3-Dichloropropene-	10.90	79	2963718	4.86	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 97.20%			
47) 2-Hexanone-d5	12.20	63	2242628	53.77	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 107.54%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1726309	4.72	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 94.40%			
63) 1,2-Dichlorobenzene-d4	17.47	152	2624200	5.10	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 102.00%			

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDChem\1\DATA\B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 28 14:30:08 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	3	26	100	BV	17448170	2280328132	100.00%	86.773%
2	2.100	100	101	108	VV	538281	17659413	0.77%	0.672%
3	2.172	108	111	114	VV 2	512803	12078190	0.53%	0.460%
4	2.236	114	120	138	VV	531139	40358011	1.77%	1.536%
5	2.386	138	141	157	VV 3	76249	3018753	0.13%	0.115%
6	2.522	157	160	164	VV 5	6581	149410	0.01%	0.006%
7	2.558	164	165	179	VV 5	4654	173434	0.01%	0.007%
8	2.687	179	183	185	PV 2	2932	40748	0.00%	0.002%
9	2.715	185	187	188	VV 2	3870	35798	0.00%	0.001%
10	2.765	188	194	196	VV 5	4259	96658	0.00%	0.004%
11	2.787	196	197	199	VV 2	4389	37477	0.00%	0.001%
12	2.851	199	206	215	VV 4	6607	267781	0.01%	0.010%
13	2.930	215	217	219	VV 3	3475	33010	0.00%	0.001%
14	2.958	219	221	223	VV 3	2675	23606	0.00%	0.001%
15	2.994	223	226	228	VV	2166	19197	0.00%	0.001%
16	3.123	228	244	276	PV	378983	14315936	0.63%	0.545%
17	3.387	276	281	282	VV 2	2539	44268	0.00%	0.002%
18	3.423	282	286	299	VV 4	4805	192186	0.01%	0.007%
19	3.530	299	301	308	VV 2	9040	90462	0.00%	0.003%
20	3.616	308	313	316	VV 3	2469	51415	0.00%	0.002%
21	3.652	316	318	324	PV 2	1671	35400	0.00%	0.001%
22	3.702	324	325	327	VV	2021	22983	0.00%	0.001%
23	3.745	327	331	333	VV 2	3652	50485	0.00%	0.002%
24	3.788	333	337	339	VV 2	1509	27462	0.00%	0.001%
25	3.881	339	350	357	VV 6	4870	251259	0.01%	0.010%
26	3.938	357	358	368	VV	10098	192988	0.01%	0.007%
27	4.024	368	370	372	VV	3781	52673	0.00%	0.002%
28	4.059	372	375	377	VV 3	2946	52769	0.00%	0.002%
29	4.088	377	379	383	VV 2	2526	55852	0.00%	0.002%
30	4.145	383	387	392	VV	3220	81103	0.00%	0.003%
31	4.188	392	393	404	VV 3	2891	110129	0.00%	0.004%
32	4.317	404	411	417	VV 5	4230	153978	0.01%	0.006%
33	4.388	417	421	423	VV 3	2994	54232	0.00%	0.002%
34	4.410	423	424	427	VV	3380	47529	0.00%	0.002%
35	4.445	427	429	430	VV	3018	36616	0.00%	0.001%
36	4.467	430	432	435	VV 2	3264	52256	0.00%	0.002%
37	4.503	435	437	440	VV	2669	44501	0.00%	0.002%
38	4.538	440	442	452	VV	3473	132925	0.01%	0.005%
39	4.624	452	454	458	VV	3131	71715	0.00%	0.003%
40	4.681	458	462	466	VV 2	3693	89370	0.00%	0.003%
41	4.724	466	468	472	VV 2	3186	63247	0.00%	0.002%
42	4.767	472	474	478	VV	4872	69284	0.00%	0.003%
43	4.810	478	480	484	VV 2	3395	72117	0.00%	0.003%
44	4.853	484	486	490	VV 2	4159	83422	0.00%	0.003%

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.932	490	497	502	VV	2	3890	157639	0.01%	0.006%
46	4.996	502	506	510	VV		3413	93877	0.00%	0.004%
47	5.039	510	512	515	VV		4020	65783	0.00%	0.003%
48	5.075	515	517	524	VV	3	3347	122090	0.01%	0.005%
49	5.160	524	529	531	VV		4348	94839	0.00%	0.004%
50	5.189	531	533	544	VV		7755	216389	0.01%	0.008%
51	5.282	544	546	550	VV		4886	100886	0.00%	0.004%
52	5.325	550	552	555	VV	3	5066	79526	0.00%	0.003%
53	5.382	555	560	562	VV	2	4628	122721	0.01%	0.005%
54	5.404	562	563	565	VV	2	4648	56520	0.00%	0.002%
55	5.468	565	572	579	VV	2	4724	253402	0.01%	0.010%
56	5.554	579	584	586	VV	3	5016	135720	0.01%	0.005%
57	5.590	586	589	591	VV	2	5716	91990	0.00%	0.004%
58	5.611	591	592	594	VV		4931	53673	0.00%	0.002%
59	5.640	594	596	598	PV		5289	57970	0.00%	0.002%
60	5.668	598	600	603	VV	3	4993	101305	0.00%	0.004%
61	5.697	603	604	610	VV	2	4701	135196	0.01%	0.005%
62	5.761	610	613	622	VV	2	5060	208835	0.01%	0.008%
63	5.847	622	625	630	VV	3	4846	146936	0.01%	0.006%
64	5.890	630	631	632	VV		3720	41768	0.00%	0.002%
65	5.911	632	634	638	VV	2	5193	109536	0.00%	0.004%
66	5.954	638	640	643	VV	2	4720	80273	0.00%	0.003%
67	5.990	643	645	646	VV		4622	58714	0.00%	0.002%
68	6.047	646	653	656	VV	3	4628	172199	0.01%	0.007%
69	6.097	656	660	664	VV	2	6604	147864	0.01%	0.006%
70	6.147	664	667	669	VV		5060	88546	0.00%	0.003%
71	6.247	669	681	709	VV		390411	14859236	0.65%	0.565%
72	6.462	709	711	713	VV	2	7551	101613	0.00%	0.004%
73	6.483	713	714	716	VV		6574	85793	0.00%	0.003%
74	6.505	716	717	721	VV		6407	115596	0.01%	0.004%
75	6.576	721	727	730	VV	2	6748	168897	0.01%	0.006%
76	6.662	730	739	771	VV	2	113360	5811592	0.25%	0.221%
77	6.898	771	772	774	VV	2	8151	109773	0.00%	0.004%
78	6.941	774	778	782	VV	5	9053	243789	0.01%	0.009%
79	7.055	782	794	815	VV		757175	25761867	1.13%	0.980%
80	7.277	815	825	846	VV		224938	8656093	0.38%	0.329%
81	7.434	846	847	852	VV	4	7986	185973	0.01%	0.007%
82	7.477	852	853	861	VV	3	7332	257365	0.01%	0.010%
83	7.542	861	862	866	VV		6846	129864	0.01%	0.005%
84	7.599	866	870	875	VV	2	6965	207302	0.01%	0.008%
85	7.649	875	877	879	VV		10662	137517	0.01%	0.005%
86	7.677	879	881	884	VV	3	7136	121837	0.01%	0.005%
87	7.706	884	885	887	VV		7018	85187	0.00%	0.003%
88	7.735	887	889	893	VV	2	5499	116628	0.01%	0.004%
89	7.777	893	895	897	VV	3	5256	83124	0.00%	0.003%
90	7.813	897	900	908	VV		6129	215454	0.01%	0.008%
91	7.899	908	912	917	VV	2	5005	150943	0.01%	0.006%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.949	917	919	920	VV 2	4494	69264	0.00%	0.003%
93	7.999	920	926	927	VV 3	7213	176199	0.01%	0.007%
94	8.071	927	936	958	VV	306725	10038988	0.44%	0.382%
95	8.249	958	961	962	VV 2	6646	113022	0.00%	0.004%
96	8.271	962	964	968	VV	6414	129285	0.01%	0.005%
97	8.314	968	970	972	VV 2	8148	101534	0.00%	0.004%
98	8.342	972	974	979	VV 3	5184	139733	0.01%	0.005%
99	8.400	979	982	988	VV 3	5589	189037	0.01%	0.007%
100	8.457	988	990	991	VV 2	4745	60430	0.00%	0.002%
101	8.485	991	994	996	VV 2	5449	96355	0.00%	0.004%
102	8.550	996	1003	1004	VV 3	6230	184592	0.01%	0.007%
103	8.628	1004	1014	1043	VV	474180	16222581	0.71%	0.617%
104	8.850	1043	1045	1046	VV 2	7468	82365	0.00%	0.003%
105	8.879	1046	1049	1053	VV 4	7790	186320	0.01%	0.007%
106	8.914	1053	1054	1058	VV 2	5677	102621	0.00%	0.004%
107	8.950	1058	1059	1065	VV 3	5348	144084	0.01%	0.005%
108	9.022	1065	1069	1072	VV 2	5003	155766	0.01%	0.006%
109	9.057	1072	1074	1082	VV 2	4921	182935	0.01%	0.007%
110	9.165	1082	1089	1091	VV 4	6054	210767	0.01%	0.008%
111	9.186	1091	1092	1097	VV 2	6861	141185	0.01%	0.005%
112	9.236	1097	1099	1101	VV	5658	78009	0.00%	0.003%
113	9.279	1101	1105	1107	VV 3	4915	119099	0.01%	0.005%
114	9.329	1107	1112	1117	VV	5126	183978	0.01%	0.007%
115	9.393	1117	1121	1127	VV 5	6705	243284	0.01%	0.009%
116	9.458	1127	1130	1132	VV 2	5737	103171	0.00%	0.004%
117	9.494	1132	1135	1137	VV 2	5276	100547	0.00%	0.004%
118	9.529	1137	1140	1145	VV 2	4381	144619	0.01%	0.006%
119	9.586	1145	1148	1150	VV	12597	137952	0.01%	0.005%
120	9.615	1150	1152	1154	VV 2	4849	63268	0.00%	0.002%
121	9.637	1154	1155	1157	VV	4432	54518	0.00%	0.002%
122	9.672	1157	1160	1166	VV 2	4696	162233	0.01%	0.006%
123	9.751	1166	1171	1173	VV 2	5091	135411	0.01%	0.005%
124	9.837	1173	1183	1204	VV	597458	17801217	0.78%	0.677%
125	10.001	1204	1206	1213	VV 4	11226	362207	0.02%	0.014%
126	10.066	1213	1215	1218	VV 2	7916	151761	0.01%	0.006%
127	10.173	1218	1230	1253	VV	1020317	29237428	1.28%	1.113%
128	10.352	1253	1255	1261	VV 3	9406	240269	0.01%	0.009%
129	10.402	1261	1262	1265	VV 2	6679	99867	0.00%	0.004%
130	10.445	1265	1268	1270	VV 3	6475	131657	0.01%	0.005%
131	10.502	1270	1276	1278	VV 3	6215	191727	0.01%	0.007%
132	10.530	1278	1280	1282	VV	5626	83660	0.00%	0.003%
133	10.552	1282	1283	1291	VV 3	5697	189835	0.01%	0.007%
134	10.616	1291	1292	1294	VV	5514	66225	0.00%	0.003%
135	10.645	1294	1296	1299	VV 2	6313	112570	0.00%	0.004%
136	10.680	1299	1301	1304	VV	7124	105570	0.00%	0.004%
137	10.716	1304	1306	1312	VV 2	5383	151928	0.01%	0.006%
138	10.895	1312	1331	1352	VV 2	385673	18399763	0.81%	0.700%
139	11.067	1352	1355	1363	VV 6	9824	374841	0.02%	0.014%

0153

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.138	1363	1365	1370	VV	5	7460	196036	0.01%	0.007%
141	11.188	1370	1372	1376	VV	3	7440	172023	0.01%	0.007%
142	11.224	1376	1377	1382	VV	5	7061	184072	0.01%	0.007%
143	11.274	1382	1384	1387	VV		6611	101907	0.00%	0.004%
144	11.303	1387	1388	1390	VV		5959	76659	0.00%	0.003%
145	11.331	1390	1392	1394	VV	3	6165	97489	0.00%	0.004%
146	11.353	1394	1395	1402	VV	2	5984	186403	0.01%	0.007%
147	11.453	1402	1409	1410	VV	2	5459	175186	0.01%	0.007%
148	11.474	1410	1412	1414	VV		6050	77277	0.00%	0.003%
149	11.503	1414	1416	1422	VV	2	5649	167355	0.01%	0.006%
150	11.560	1422	1424	1427	VV	2	5277	104571	0.00%	0.004%
151	11.596	1427	1429	1433	VV	2	5209	122402	0.01%	0.005%
152	11.639	1433	1435	1439	VV	2	5745	114465	0.01%	0.004%
153	11.682	1439	1441	1445	VV	2	4903	123848	0.01%	0.005%
154	11.732	1445	1448	1449	VV	3	6024	80792	0.00%	0.003%
155	11.746	1449	1450	1456	VV	2	7059	155749	0.01%	0.006%
156	11.803	1456	1458	1467	VV	3	5508	211758	0.01%	0.008%
157	11.882	1467	1469	1472	VV	2	4819	101962	0.00%	0.004%
158	11.932	1472	1476	1480	VV	2	5386	133228	0.01%	0.005%
159	11.968	1480	1481	1484	VV		4692	73483	0.00%	0.003%
160	12.025	1484	1489	1491	VV	2	5038	124952	0.01%	0.005%
161	12.068	1491	1495	1497	VV		5596	119267	0.01%	0.005%
162	12.096	1497	1499	1504	VV		5205	142401	0.01%	0.005%
163	12.203	1504	1514	1538	VV	2	447860	14283833	0.63%	0.544%
164	12.389	1538	1540	1549	VV	7	12272	441561	0.02%	0.017%
165	12.468	1549	1551	1554	VV	4	8459	169785	0.01%	0.006%
166	12.497	1554	1555	1558	VV	2	9258	150483	0.01%	0.006%
167	12.532	1558	1560	1564	VV	3	7332	160201	0.01%	0.006%
168	12.632	1564	1574	1590	VV		400239	11591470	0.51%	0.441%
169	12.768	1590	1593	1600	VV	6	14111	484152	0.02%	0.018%
170	12.840	1600	1603	1605	VV		7294	133997	0.01%	0.005%
171	12.868	1605	1607	1609	VV		6918	95862	0.00%	0.004%
172	12.904	1609	1612	1617	VV	3	7007	205108	0.01%	0.008%
173	12.954	1617	1619	1620	VV	2	6566	80426	0.00%	0.003%
174	13.033	1620	1630	1635	VV	4	14081	556152	0.02%	0.021%
175	13.083	1635	1637	1644	VV	2	6378	195206	0.01%	0.007%
176	13.147	1644	1646	1649	VV	2	6039	111378	0.00%	0.004%
177	13.205	1649	1654	1659	VV	3	5251	194075	0.01%	0.007%
178	13.262	1659	1662	1665	VV	3	5489	123115	0.01%	0.005%
179	13.305	1665	1668	1680	VV	2	5381	299683	0.01%	0.011%
180	13.405	1680	1682	1693	VV	3	5479	246785	0.01%	0.009%
181	13.498	1693	1695	1698	VV	2	5099	105260	0.00%	0.004%
182	13.541	1698	1701	1706	VV	3	5010	136265	0.01%	0.005%
183	13.583	1706	1707	1709	VV	2	4865	69801	0.00%	0.003%
184	13.612	1709	1711	1717	VV	3	4736	132166	0.01%	0.005%
185	13.662	1717	1718	1720	VV		4560	56090	0.00%	0.002%
186	13.734	1720	1728	1729	VV	3	7742	224956	0.01%	0.009%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	13.755	1729	1731	1733	VV	2	7351	104559	0.00%	0.004%
188	13.791	1733	1736	1739	VV	4	7636	141354	0.01%	0.005%
189	13.855	1739	1745	1749	VV	5	5518	215201	0.01%	0.008%
190	13.898	1749	1751	1755	VV	2	5247	120180	0.01%	0.005%
191	13.955	1755	1759	1761	VV		5351	119905	0.01%	0.005%
192	13.991	1761	1764	1768	VV	2	5263	127807	0.01%	0.005%
193	14.055	1768	1773	1777	VV	3	5396	180815	0.01%	0.007%
194	14.091	1777	1778	1780	VV		4649	52247	0.00%	0.002%
195	14.141	1780	1785	1788	VV	3	5138	154686	0.01%	0.006%
196	14.177	1788	1790	1792	VV		4566	70746	0.00%	0.003%
197	14.198	1792	1793	1795	VV		5241	72448	0.00%	0.003%
198	14.277	1795	1804	1806	VV	3	5420	211236	0.01%	0.008%
199	14.306	1806	1808	1812	VV	3	6241	142295	0.01%	0.005%
200	14.363	1812	1816	1825	VV	3	5211	233917	0.01%	0.009%
201	14.484	1825	1833	1836	VV	3	5032	194568	0.01%	0.007%
202	14.520	1836	1838	1845	VV	2	5179	161198	0.01%	0.006%
203	14.585	1845	1847	1849	VV		4918	58213	0.00%	0.002%
204	14.620	1849	1852	1858	VV	3	4502	155746	0.01%	0.006%
205	14.677	1858	1860	1862	VV	2	4944	62300	0.00%	0.002%
206	14.699	1862	1863	1871	VV	3	5050	167728	0.01%	0.006%
207	14.785	1871	1875	1879	VV	2	4952	156750	0.01%	0.006%
208	14.828	1879	1881	1886	VV	3	4569	103215	0.00%	0.004%
209	14.971	1886	1901	1912	VV		137372	4357942	0.19%	0.166%
210	15.106	1912	1920	1932	VV		216696	6160246	0.27%	0.234%
211	15.235	1932	1938	1944	VV	5	7055	299852	0.01%	0.011%
212	15.292	1944	1946	1948	VV		12056	110750	0.00%	0.004%
213	15.314	1948	1949	1953	VV	2	4534	90747	0.00%	0.003%
214	15.364	1953	1956	1959	VV	2	4347	101004	0.00%	0.004%
215	15.407	1959	1962	1967	VV	3	6515	179735	0.01%	0.007%
216	15.485	1967	1973	1976	VV	2	5547	155218	0.01%	0.006%
217	15.521	1976	1978	1982	VV	2	4671	111427	0.00%	0.004%
218	15.564	1982	1984	1989	VV	3	4880	113510	0.00%	0.004%
219	15.614	1989	1991	1995	VV		5119	107210	0.00%	0.004%
220	15.657	1995	1997	2005	VV	3	5114	171890	0.01%	0.007%
221	15.729	2005	2007	2009	VV	2	4218	66307	0.00%	0.003%
222	15.764	2009	2012	2014	VV	2	5057	98177	0.00%	0.004%
223	15.786	2014	2015	2017	VV	3	4583	56977	0.00%	0.002%
224	15.822	2017	2020	2022	VV	2	4701	93548	0.00%	0.004%
225	15.850	2022	2024	2028	VV	2	4190	93121	0.00%	0.004%
226	15.893	2028	2030	2036	VV		5723	145756	0.01%	0.006%
227	15.943	2036	2037	2042	VV	2	4786	111716	0.00%	0.004%
228	15.993	2042	2044	2051	VV	2	4847	153068	0.01%	0.006%
229	16.079	2051	2056	2061	VV	3	5456	197688	0.01%	0.008%
230	16.143	2061	2065	2071	VV	2	4767	176259	0.01%	0.007%
231	16.200	2071	2073	2075	VV	2	5358	71667	0.00%	0.003%
232	16.222	2075	2076	2078	VV		4632	60580	0.00%	0.002%
233	16.301	2078	2087	2108	VV		144785	4157290	0.18%	0.158%
234	16.472	2108	2111	2113	VV	2	5873	91118	0.00%	0.003%

0155

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.508	2113	2116	2117	VV	2	5800	85749	0.00%	0.003%
236	16.529	2117	2119	2122	VV	2	6604	100813	0.00%	0.004%
237	16.565	2122	2124	2128	VV	3	6333	146573	0.01%	0.006%
238	16.601	2128	2129	2132	VV		5064	60698	0.00%	0.002%
239	16.715	2132	2145	2162	VV		328972	9076795	0.40%	0.345%
240	16.844	2162	2163	2170	VV	2	7192	205803	0.01%	0.008%
241	16.908	2170	2172	2175	VV	4	5535	108219	0.00%	0.004%
242	16.944	2175	2177	2180	VV	2	5493	108929	0.00%	0.004%
243	16.987	2180	2183	2189	VV	3	5097	165570	0.01%	0.006%
244	17.044	2189	2191	2193	VV		5210	86919	0.00%	0.003%
245	17.073	2193	2195	2197	VV		4193	62984	0.00%	0.002%
246	17.101	2197	2199	2201	VV		4665	64598	0.00%	0.002%
247	17.130	2201	2203	2207	VV	2	5789	104114	0.00%	0.004%
248	17.180	2207	2210	2214	VV		5643	129338	0.01%	0.005%
249	17.223	2214	2216	2218	VV	2	4529	64902	0.00%	0.002%
250	17.252	2218	2220	2224	VV		5103	115314	0.01%	0.004%
251	17.323	2224	2230	2238	VV	3	6349	275668	0.01%	0.010%
252	17.473	2238	2251	2271	VV		632069	17204003	0.75%	0.655%
253	17.623	2271	2272	2276	VV	2	5817	128522	0.01%	0.005%
254	17.688	2276	2281	2286	VV		10697	231543	0.01%	0.009%
255	17.731	2286	2287	2290	VV		5277	81795	0.00%	0.003%
256	17.766	2290	2292	2296	VV	3	5831	120030	0.01%	0.005%
257	17.824	2296	2300	2302	VV	2	4920	104068	0.00%	0.004%
258	17.852	2302	2304	2306	VV		4841	71144	0.00%	0.003%
259	17.881	2306	2308	2310	VV	2	5158	83186	0.00%	0.003%
260	17.924	2310	2314	2316	VV		4270	96967	0.00%	0.004%
261	17.967	2316	2320	2326	VV	3	5202	176107	0.01%	0.007%
262	18.024	2326	2328	2329	VV		4330	56352	0.00%	0.002%
263	18.074	2329	2335	2338	VV	2	5106	157279	0.01%	0.006%
264	18.110	2338	2340	2342	VV		5069	70079	0.00%	0.003%
265	18.138	2342	2344	2345	VV		4324	62352	0.00%	0.002%
266	18.181	2345	2350	2352	VV	2	4864	125557	0.01%	0.005%
267	18.238	2352	2358	2360	VV	2	9342	149983	0.01%	0.006%
268	18.303	2360	2367	2374	VV	4	5565	254767	0.01%	0.010%
269	18.410	2374	2382	2390	VV		44336	1321120	0.06%	0.050%
270	18.496	2390	2394	2397	VV		4996	131448	0.01%	0.005%
271	18.531	2397	2399	2401	VV		5062	70794	0.00%	0.003%
272	18.567	2401	2404	2412	VV	3	4764	177549	0.01%	0.007%
273	18.639	2412	2414	2418	VV		3731	86142	0.00%	0.003%
274	18.682	2418	2420	2430	VV	2	4264	196503	0.01%	0.007%
275	18.796	2430	2436	2445	VV		4648	220499	0.01%	0.008%
276	18.889	2445	2449	2450	VV		4481	82535	0.00%	0.003%
277	18.918	2450	2453	2455	VV	2	4632	90834	0.00%	0.003%
278	18.953	2455	2458	2463	VV	2	4383	126659	0.01%	0.005%
279	19.018	2463	2467	2473	VV	3	4404	173392	0.01%	0.007%
280	19.075	2473	2475	2479	VV	3	4475	99585	0.00%	0.004%
281	19.118	2479	2481	2484	VV	3	3996	73754	0.00%	0.003%

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Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.196	2484	2492	2494	VV 3	4822	171933	0.01%	0.007%
283	19.225	2494	2496	2499	VV 3	4617	78216	0.00%	0.003%
284	19.261	2499	2501	2504	VV	11391	139418	0.01%	0.005%
285	19.311	2504	2508	2514	VV 3	4693	155493	0.01%	0.006%
286	19.375	2514	2517	2523	VV 2	4735	157067	0.01%	0.006%
287	19.461	2523	2529	2535	VV 2	5092	202090	0.01%	0.008%
288	19.511	2535	2536	2545	VV 2	4874	170461	0.01%	0.006%
289	19.597	2545	2548	2550	VV 2	4780	78603	0.00%	0.003%
290	19.633	2550	2553	2555	VV 2	4070	77804	0.00%	0.003%
291	19.675	2555	2559	2563	VV 2	4349	120958	0.01%	0.005%
292	19.711	2563	2564	2572	VV 2	5659	144624	0.01%	0.006%
293	19.776	2572	2573	2574	VV	3809	30404	0.00%	0.001%
294	19.826	2574	2580	2586	VV 2	3712	154048	0.01%	0.006%
295	19.890	2586	2589	2591	VV 2	4445	71834	0.00%	0.003%
296	19.911	2591	2592	2594	VV	4169	44250	0.00%	0.002%
297	19.947	2594	2597	2600	VV 2	4399	96420	0.00%	0.004%
298	19.983	2600	2602	2607	VV 3	4661	124507	0.01%	0.005%
299	20.047	2607	2611	2614	VV 2	4614	104370	0.00%	0.004%
300	20.083	2614	2616	2617	VV	3826	55330	0.00%	0.002%
301	20.112	2617	2620	2623	VV	4902	86674	0.00%	0.003%
302	20.147	2623	2625	2631	VV	4482	132560	0.01%	0.005%
303	20.212	2631	2634	2638	VV 2	4157	104351	0.00%	0.004%
304	20.255	2638	2640	2644	VV 2	3986	76600	0.00%	0.003%
305	20.298	2644	2646	2656	VV	11186	225973	0.01%	0.009%
306	20.376	2656	2657	2666	VV 2	4033	168433	0.01%	0.006%
307	20.455	2666	2668	2670	VV 2	4320	58863	0.00%	0.002%
308	20.476	2670	2671	2673	VV 2	4202	49312	0.00%	0.002%
309	20.505	2673	2675	2678	VV	3905	67687	0.00%	0.003%
310	20.548	2678	2681	2686	VV 2	4447	135091	0.01%	0.005%
311	20.605	2686	2689	2692	VV 2	3852	82299	0.00%	0.003%
312	20.648	2692	2695	2697	VV 2	4063	70277	0.00%	0.003%
313	20.727	2697	2706	2707	VV 3	4292	151892	0.01%	0.006%
314	20.755	2707	2710	2712	VV 2	4521	78427	0.00%	0.003%
315	20.784	2712	2714	2716	VV	6997	71983	0.00%	0.003%
316	20.827	2716	2720	2724	VV 2	3833	132112	0.01%	0.005%
317	20.884	2724	2728	2732	VV 2	4351	106257	0.00%	0.004%
318	20.927	2732	2734	2737	VV 2	3731	77734	0.00%	0.003%
319	20.963	2737	2739	2743	VV 2	4137	80743	0.00%	0.003%
320	21.005	2743	2745	2749	VV 2	4153	91546	0.00%	0.003%
321	21.048	2749	2751	2759	VV 2	4056	132572	0.01%	0.005%
322	21.120	2759	2761	2762	VV 2	3540	50615	0.00%	0.002%
323	21.141	2762	2764	2772	VV 2	3702	149043	0.01%	0.006%
324	21.249	2772	2779	2780	VV	10858	182698	0.01%	0.007%
325	21.270	2780	2782	2787	VV 2	5235	116465	0.01%	0.004%
326	21.356	2787	2794	2797	VV 3	4376	151723	0.01%	0.006%
327	21.392	2797	2799	2801	VV 2	4332	74612	0.00%	0.003%
328	21.434	2801	2805	2810	VV 2	3927	129931	0.01%	0.005%
329	21.477	2810	2811	2813	VV	3629	43402	0.00%	0.002%

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Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.506	2813	2815	2817	VV 2	3677	60516	0.00%	0.002%
331	21.535	2817	2819	2825	VV 2	4100	115037	0.01%	0.004%
332	21.592	2825	2827	2829	VV	4036	60706	0.00%	0.002%
333	21.627	2829	2832	2837	VV 2	4486	116829	0.01%	0.004%
334	21.692	2837	2841	2842	VV 2	8217	117670	0.01%	0.004%
335	21.713	2842	2844	2849	VV 2	6453	147257	0.01%	0.006%
336	21.756	2849	2850	2853	VV	4270	61946	0.00%	0.002%
337	21.792	2853	2855	2857	VV	3865	61134	0.00%	0.002%
338	21.821	2857	2859	2864	VV	4786	105686	0.00%	0.004%
339	21.871	2864	2866	2868	VV 2	4572	68700	0.00%	0.003%
340	21.899	2868	2870	2874	VV 2	4486	96537	0.00%	0.004%
341	21.935	2874	2875	2877	VV 2	3741	40573	0.00%	0.002%
342	21.992	2877	2883	2889	VV 3	4348	203325	0.01%	0.008%
343	22.049	2889	2891	2893	VV	4348	52179	0.00%	0.002%
344	22.071	2893	2894	2897	VV	5103	73082	0.00%	0.003%
345	22.107	2897	2899	2901	VV	3957	60035	0.00%	0.002%
346	22.135	2901	2903	2906	VV	5133	67399	0.00%	0.003%
347	22.171	2906	2908	2911	VV 2	2924	56226	0.00%	0.002%
348	22.207	2911	2913	2914	VV	3876	47459	0.00%	0.002%
349	22.228	2914	2916	2918	VV 2	3617	56986	0.00%	0.002%
350	22.257	2918	2920	2922	VV	4131	58025	0.00%	0.002%
351	22.292	2922	2925	2927	VV 2	4794	75675	0.00%	0.003%
352	22.343	2927	2932	2936	VV 2	4721	154866	0.01%	0.006%
353	22.393	2936	2939	2946	VV 2	4208	143528	0.01%	0.005%
354	22.450	2946	2947	2950	VV 2	3990	53230	0.00%	0.002%
355	22.493	2950	2953	2957	VV 2	3759	94119	0.00%	0.004%
356	22.543	2957	2960	2962	VV	6826	85713	0.00%	0.003%
357	22.571	2962	2964	2967	VV 2	4241	76924	0.00%	0.003%
358	22.607	2967	2969	2973	VV 2	4910	96532	0.00%	0.004%
359	22.657	2973	2976	2978	VV 3	4157	80830	0.00%	0.003%
360	22.679	2978	2979	2981	VV	4473	58344	0.00%	0.002%
361	22.707	2981	2983	2990	VV	4157	130053	0.01%	0.005%
362	22.786	2990	2994	2996	VV 2	4421	88574	0.00%	0.003%
363	22.814	2996	2998	3001	VV	4225	79436	0.00%	0.003%
364	22.872	3001	3006	3008	VV 2	3707	105661	0.00%	0.004%
365	22.922	3008	3013	3015	VV 3	4521	99155	0.00%	0.004%
366	22.950	3015	3017	3018	VV	4388	50966	0.00%	0.002%
367	22.972	3018	3020	3022	VV	4120	45187	0.00%	0.002%
368	22.993	3022	3023	3029	VV 3	4900	117167	0.01%	0.004%
369	23.072	3029	3034	3036	VV 2	4346	93322	0.00%	0.004%
370	23.115	3036	3040	3044	VV 2	4870	129180	0.01%	0.005%
371	23.193	3044	3051	3055	VV 2	3948	150868	0.01%	0.006%
372	23.236	3055	3057	3059	VV 2	4583	63521	0.00%	0.002%
373	23.258	3059	3060	3065	VV 2	3863	105875	0.00%	0.004%
374	23.308	3065	3067	3072	VV 2	4832	107268	0.00%	0.004%
375	23.351	3072	3073	3078	VV	10839	143047	0.01%	0.005%
376	23.401	3078	3080	3083	VV 2	4021	79709	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

377	23.436	3083	3085	3090	VV 3	4501	115063	0.01%	0.004%
378	23.494	3090	3093	3099	VV 2	4686	138662	0.01%	0.005%
379	23.551	3099	3101	3103	VV	4227	59026	0.00%	0.002%
380	23.579	3103	3105	3108	VV	3923	79511	0.00%	0.003%
381	23.630	3108	3112	3113	VV	4700	85467	0.00%	0.003%
382	23.665	3113	3117	3127	VV 2	4407	213889	0.01%	0.008%
383	23.744	3127	3128	3132	PV	4106	74838	0.00%	0.003%
384	23.808	3132	3137	3139	VV 2	4247	103082	0.00%	0.004%
385	23.837	3139	3141	3144	VV 2	4561	84245	0.00%	0.003%
386	23.887	3144	3148	3150	VV 2	4640	80977	0.00%	0.003%
387	23.908	3150	3151	3156	VV 2	5401	101284	0.00%	0.004%
388	23.958	3156	3158	3161	VV 2	3358	57019	0.00%	0.002%
389	24.030	3161	3168	3174	VV 2	3402	168864	0.01%	0.006%
390	24.087	3174	3176	3179	VV 2	3342	58255	0.00%	0.002%
391	24.123	3179	3181	3185	VV	6506	67629	0.00%	0.003%
392	24.216	3185	3194	3197	VV 2	3143	110269	0.00%	0.004%
393	24.252	3197	3199	3201	VV 2	2425	30464	0.00%	0.001%
394	24.309	3201	3207	3209	VV 3	2725	81273	0.00%	0.003%
395	24.345	3209	3212	3214	VV	2565	33832	0.00%	0.001%
396	24.366	3214	3215	3219	VV 2	2303	44130	0.00%	0.002%
397	24.423	3219	3223	3227	VV 3	2219	57598	0.00%	0.002%
398	24.552	3227	3241	3243	VV 2	2737	81287	0.00%	0.003%
399	24.623	3243	3251	3253	VV 2	2815	66419	0.00%	0.003%
400	24.659	3253	3256	3262	VV 4	2750	71984	0.00%	0.003%
401	24.745	3262	3268	3277	VV 3	2230	69020	0.00%	0.003%

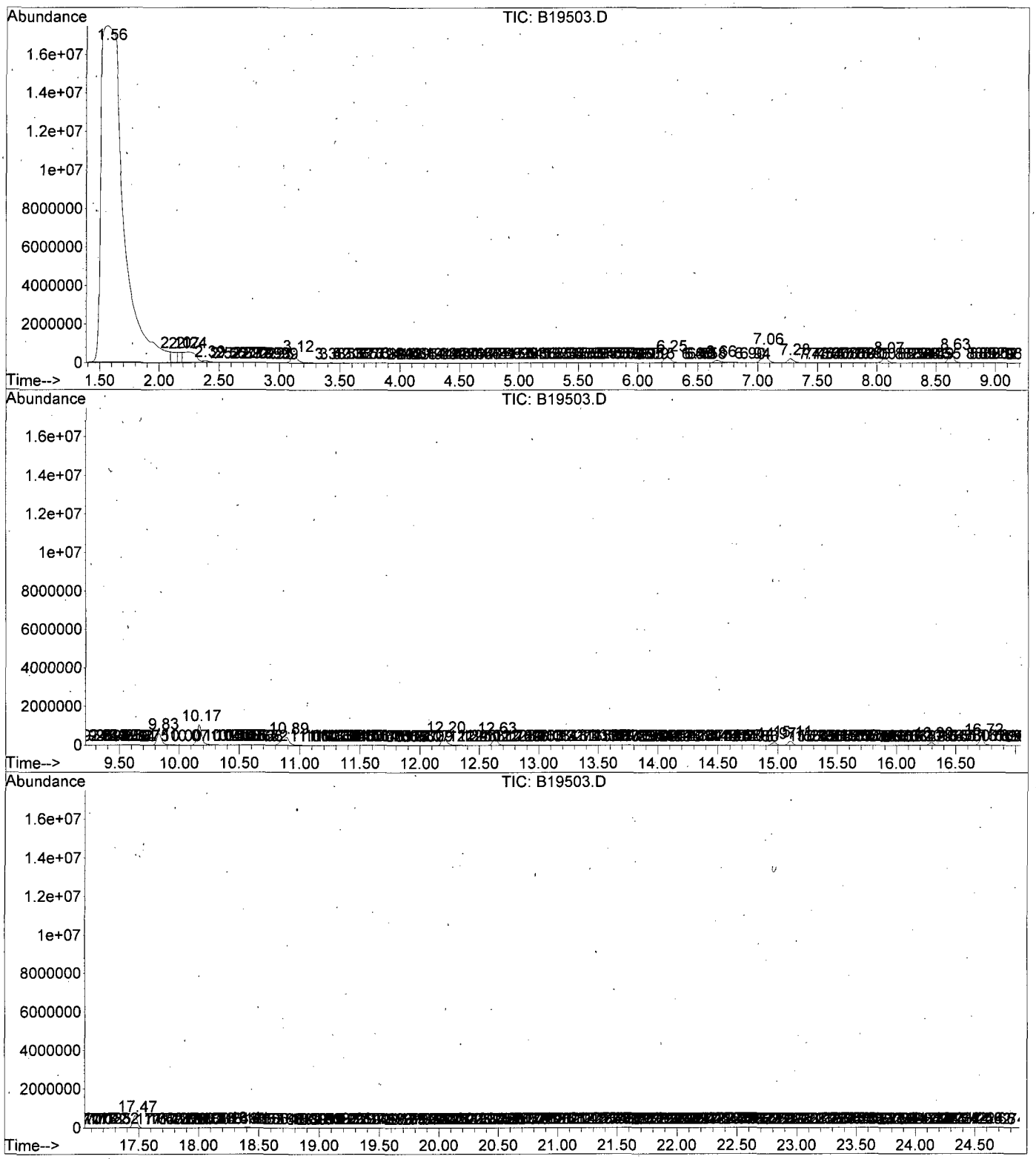
Sum of corrected areas: 2627917898

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

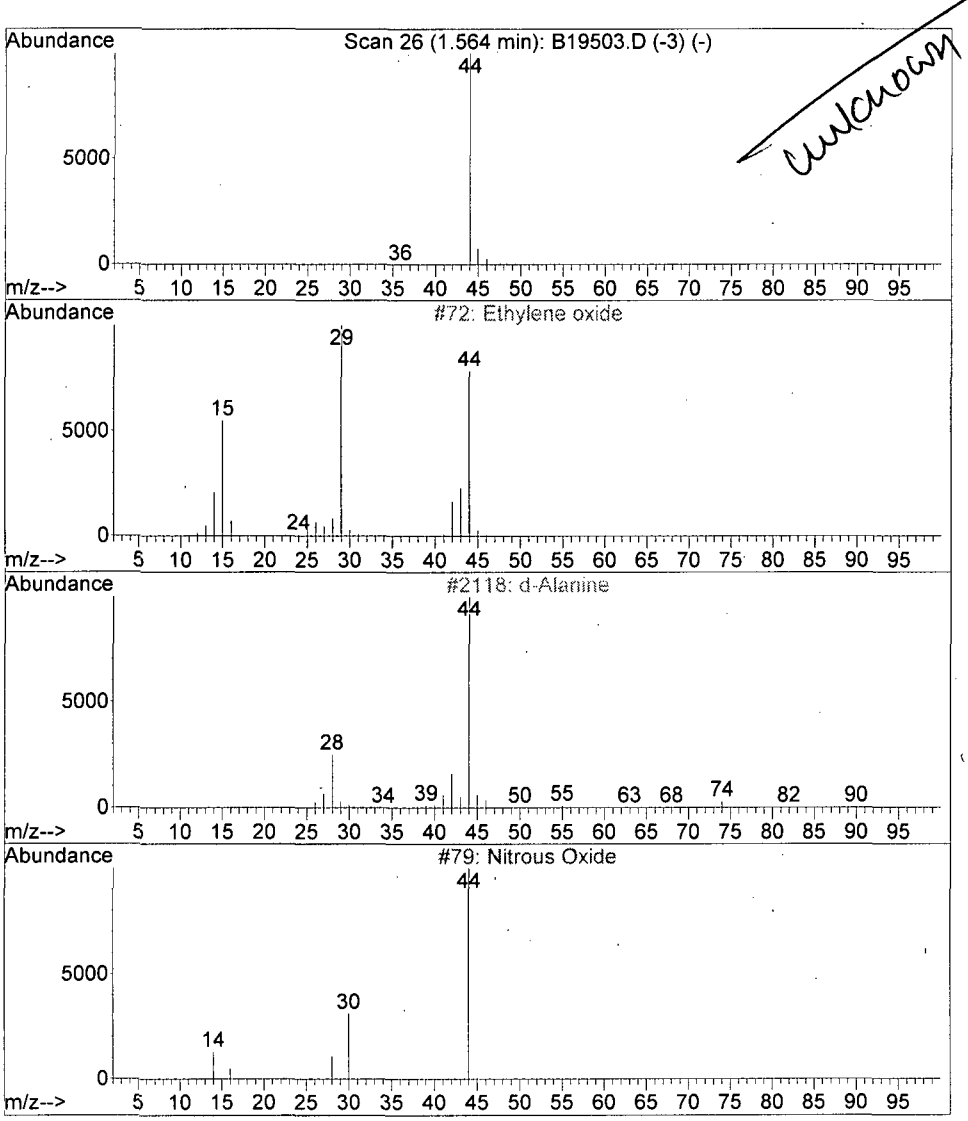
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

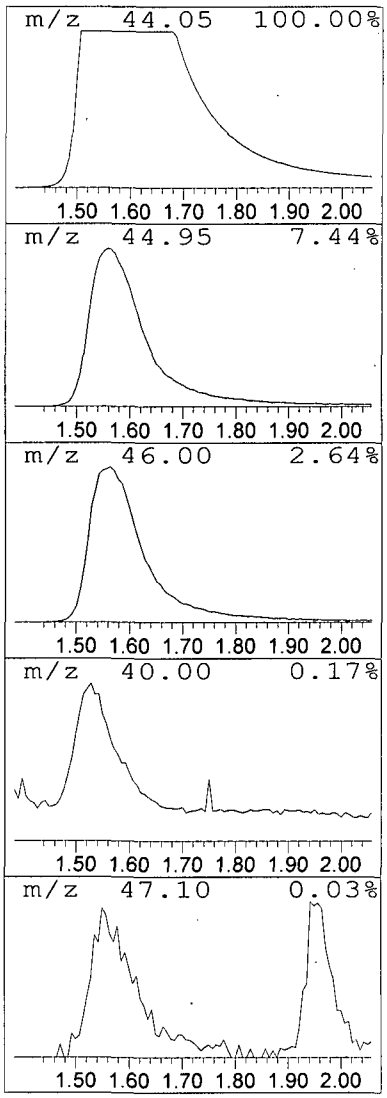
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	1135.74 ug/L	2280330000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	d-Alanine	89	C3H7NO2	000338-69-2	2
3	Nitrous Oxide	44	N2O	010024-97-2	2
4	Carbon dioxide	44	CO2	000124-38-9	2
5	Carbon dioxide	44	CO2	000124-38-9	2





Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

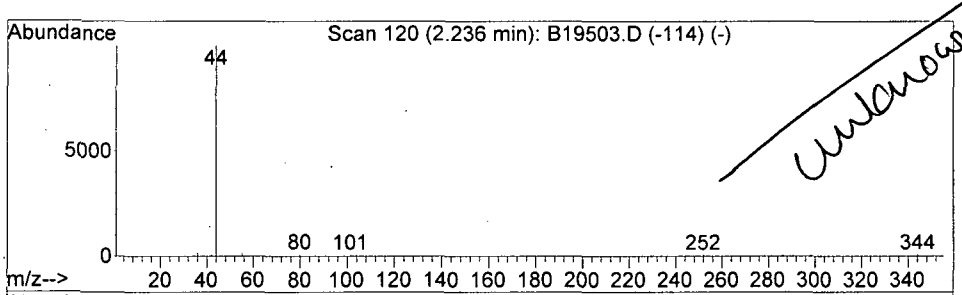
****

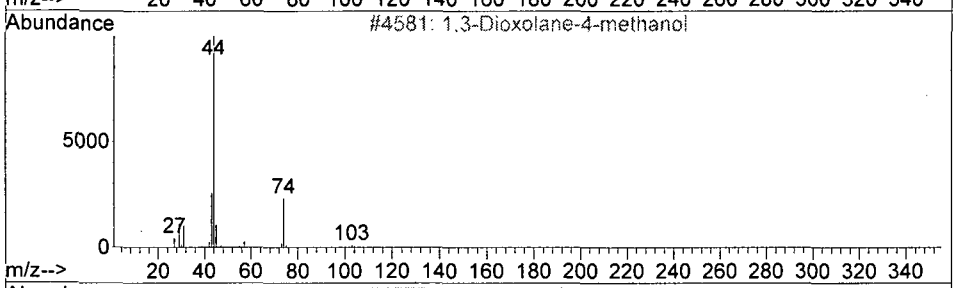
Peak Number 2 1,3-Dioxolane-4-methanol Concentration Rank 2

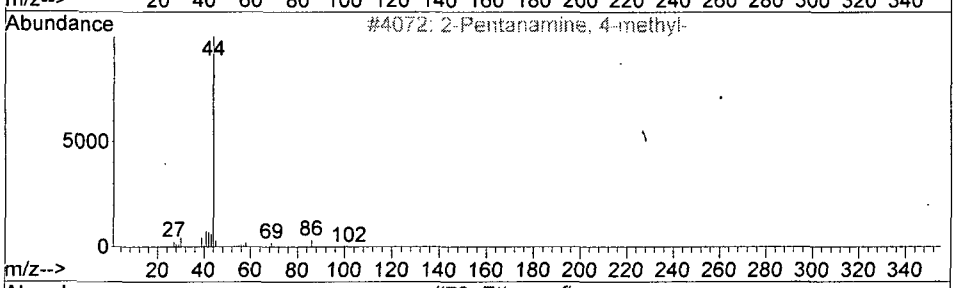
R.T.	EstConc	Area	Relative to ISTD	R.T.
2.24	20.10 ug/L	40358000	1,4-Difluorobenzene	8.07

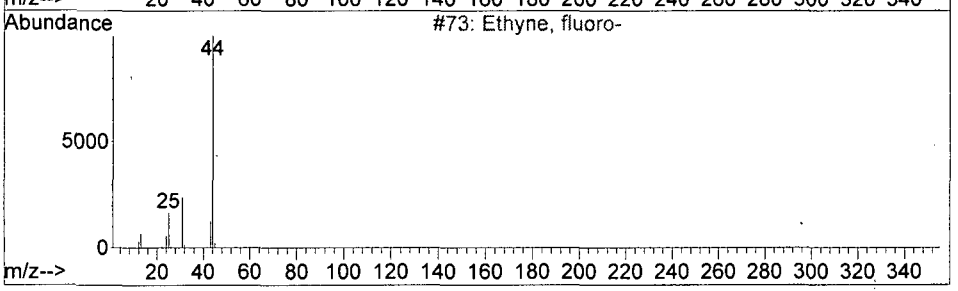
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane-4-methanol	104	C4H8O3	005464-28-8	3
2	2-Pentanamine, 4-methyl-	101	C6H15N	000108-09-8	3
3	Ethyne, fluoro-	44	C2HF	002713-09-9	2
4	Ethylene oxide	44	C2H4O	000075-21-8	2
5	Nitrous Oxide	44	N2O	010024-97-2	2

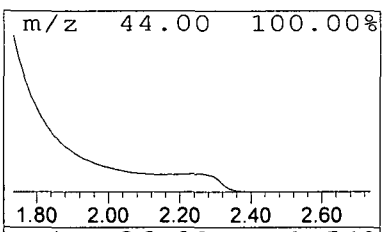
Unknown

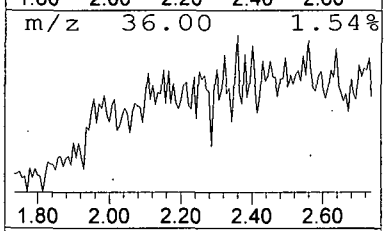


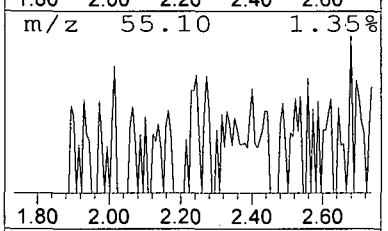


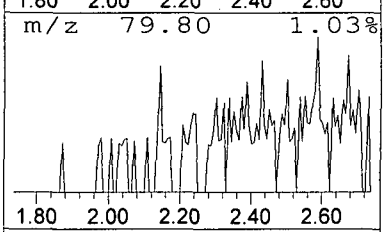


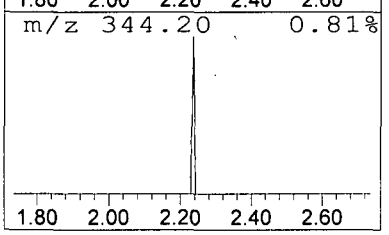












0162

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

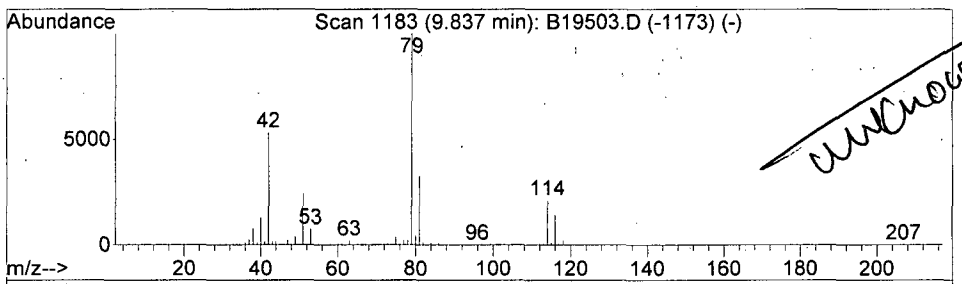
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

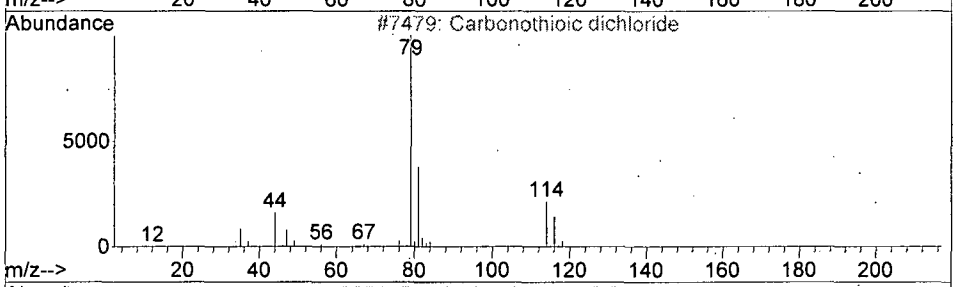
****

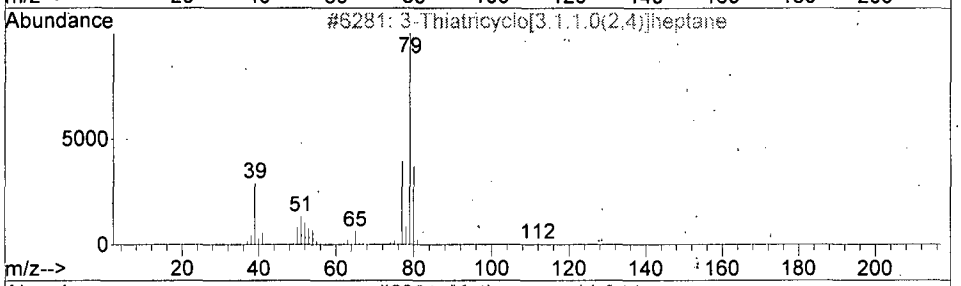
Peak Number 3 Carbonothioic dichloride Concentration Rank 3

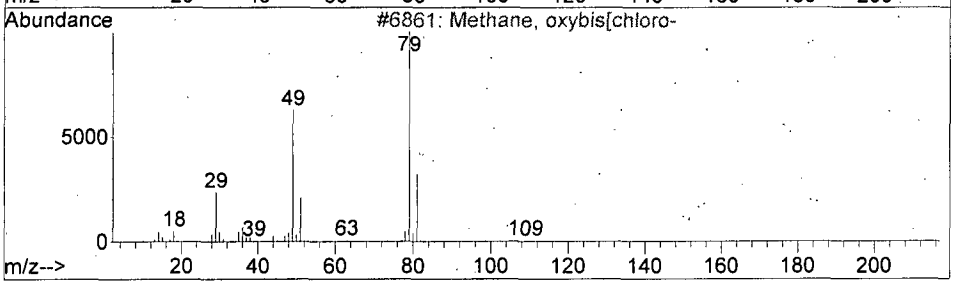
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.83	8.87 ug/L	17801200	1,4-Difluorobenzene	8.07

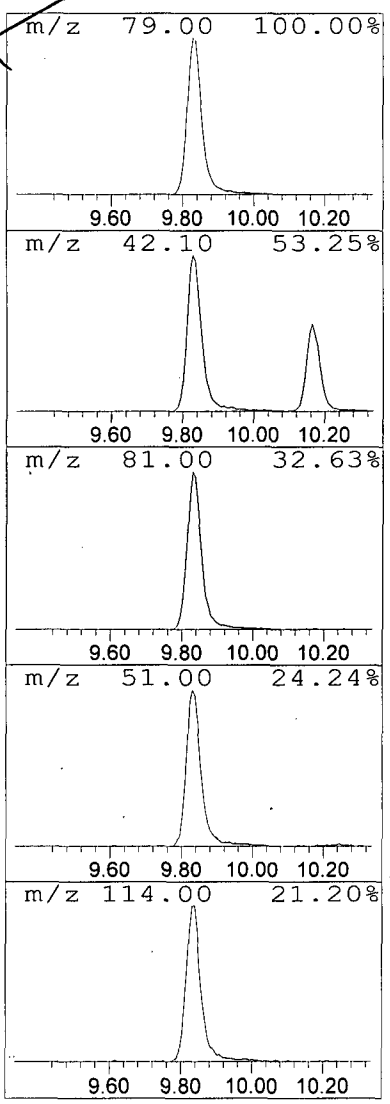
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23











0163

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19503.D
Acq On : 11/26/08 00:20 Operator: SB
Sample : F2XE8 Inst : B-5973
Misc : S-2066.05 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	1135.7	ug/L	2280330000	1	8.07	10039000	5.0
1,3-Dioxolane-4-m...	2.24	20.1	ug/L	40358000	1	8.07	10039000	5.0
Carbonothioic dic...	9.83	8.9	ug/L	17801200	1	8.07	10039000	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17022

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17022

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	1.6	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XE9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17022

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	9.4	J
02					
03					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 27 09:20:31 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Nov 27 07:51:19 2008
Response via : Initial Calibration

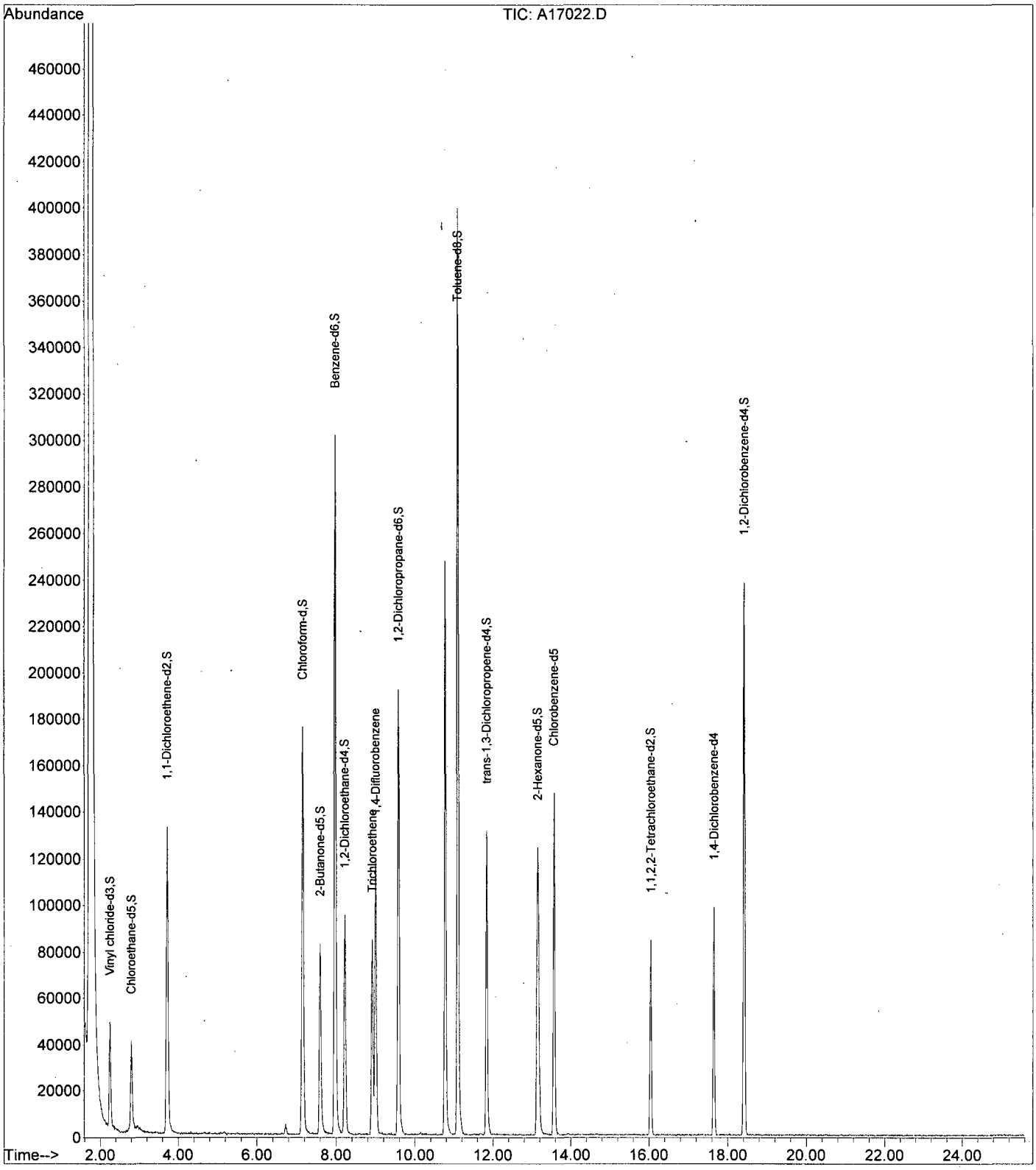
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1415077	5.00	ug/L	0.01
28) Chlorobenzene-d5	13.57	117	1269010	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	407494	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	779087	4.22	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 84.40%			
7) Chloroethane-d5	2.80	69	519251	4.76	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 95.20%			
10) 1,1-Dichloroethene-d2	3.72	63	1581932	3.48	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 69.60%			
21) 2-Butanone-d5	7.60	46	1669130	50.35	ug/L	0.01
Spiked Amount 50.000	Range 49 - 155		Recovery = 100.70%			
24) Chloroform-d	7.16	84	2135717	4.27	ug/L	0.01
Spiked Amount 5.000	Range 78 - 121		Recovery = 85.40%			
26) 1,2-Dichloroethane-d4	8.22	65	983749	4.92	ug/L	0.01
Spiked Amount 5.000	Range 78 - 129		Recovery = 98.40%			
32) Benzene-d6	7.98	84	4071944	4.35	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 87.00%			
36) 1,2-Dichloropropane-d6	9.58	67	1262615	4.54	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 90.80%			
41) Toluene-d8	11.10	98	3988443	4.65	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 93.00%			
43) trans-1,3-Dichloropropene-	11.84	79	1027190	4.24	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 84.80%			
47) 2-Hexanone-d5	13.14	63	756255	54.06	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 108.12%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	628895	4.76	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 95.20%			
63) 1,2-Dichlorobenzene-d4	18.42	152	1015730	5.48	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 109.60%			
Target Compounds						Qvalue
34) Trichloroethene	8.91	95	435031	1.61	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

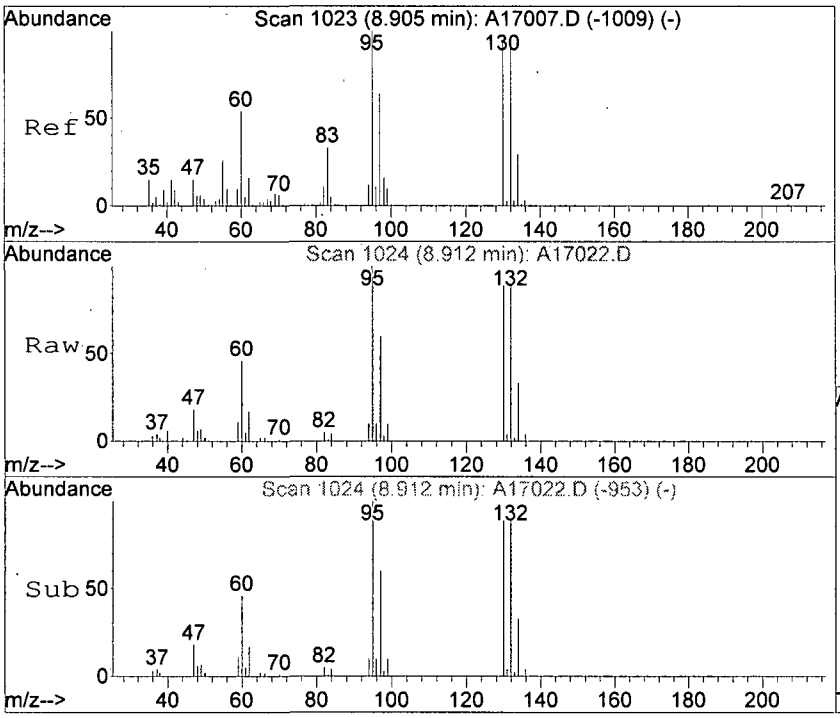
Data File: C:\MSDCHEM\1\DATA\A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 27 09:20:31 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Nov 27 07:51:19 2008
Response via : Initial Calibration



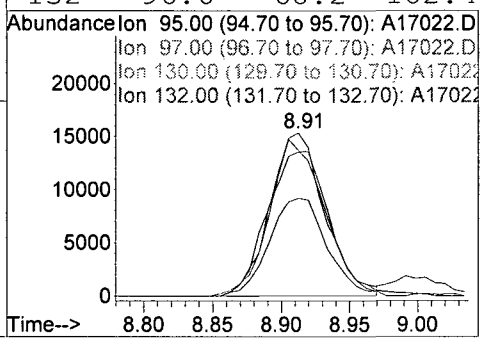
Data File : C:\MSDCHEM\1\DATA\A17022.D
Acq On : 11/26/08 15:38
Sample : F2XE9
Misc : S-2066.17 25ML
MS Integration Params: LSCINT.E

Vial: 3
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 1.61 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. 0.01 min
Integration Range:
Scan=1014 to 1032
R.T.= 8.84 to 8.97 (min)
Tgt Ion: 95 Resp: 435031

Ion	Ratio	Lower	Upper
95	100		
97	61.8	55.4	83.2
130	96.5	71.8	107.6
132	96.0	68.2	102.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.122	72	76	78	BV 2	1015	10200	0.09%	0.012%
2	2.150	78	80	86	PV 3	601	16364	0.15%	0.019%
3	2.251	86	94	103	PV	45389	1211809	11.06%	1.421%
4	2.322	103	104	111	VV 3	1691	43355	0.40%	0.051%
5	2.380	111	112	115	VV 2	1066	14250	0.13%	0.017%
6	2.408	115	116	120	VV 2	1032	18769	0.17%	0.022%
7	2.451	120	122	131	VV 2	1150	29579	0.27%	0.035%
8	2.559	131	137	142	PV 3	744	20016	0.18%	0.023%
9	2.616	142	145	149	VV 2	975	15529	0.14%	0.018%
10	2.666	149	152	155	VV 3	1221	17423	0.16%	0.020%
11	2.702	155	157	158	VV 2	1596	14859	0.14%	0.017%
12	2.802	158	171	182	VV	38453	1279445	11.67%	1.500%
13	2.895	182	184	188	VV 5	3212	65235	0.60%	0.076%
14	2.938	188	190	197	VV 4	2816	102366	0.93%	0.120%
15	3.017	197	201	215	VV 5	2536	112801	1.03%	0.132%
16	3.132	215	217	220	VV 2	1260	17874	0.16%	0.021%
17	3.168	220	222	224	VV 2	886	10950	0.10%	0.013%
18	3.196	224	226	228	VV 2	792	11109	0.10%	0.013%
19	3.225	228	230	232	VV 2	958	11082	0.10%	0.013%
20	3.254	232	234	237	VV 2	692	9324	0.09%	0.011%
21	3.304	237	241	248	VV 3	712	20191	0.18%	0.024%
22	3.368	248	250	251	VV	421	3761	0.03%	0.004%
23	3.390	251	253	255	VV	678	6657	0.06%	0.008%
24	3.411	255	256	261	VV 2	913	15079	0.14%	0.018%
25	3.468	261	264	269	VV 2	792	16884	0.15%	0.020%
26	3.533	269	273	276	VV 2	531	8189	0.07%	0.010%
27	3.619	276	285	288	PV 2	707	16050	0.15%	0.019%
28	3.719	288	299	318	VV	131136	4328047	39.49%	5.074%
29	3.877	318	321	325	VV 2	1517	31978	0.29%	0.037%
30	3.913	325	326	328	VV	1173	13514	0.12%	0.016%
31	3.934	328	329	336	VV 3	985	22609	0.21%	0.027%
32	3.999	336	338	340	VV 2	713	8354	0.08%	0.010%
33	4.027	340	342	347	VV 2	638	14307	0.13%	0.017%
34	4.092	347	351	353	PV 2	863	10284	0.09%	0.012%
35	4.113	353	354	355	VV	407	4055	0.04%	0.005%
36	4.142	355	358	363	VV 2	674	13460	0.12%	0.016%
37	4.185	363	364	366	VV 2	439	4954	0.05%	0.006%
38	4.206	366	367	370	VV	792	7886	0.07%	0.009%
39	4.242	370	372	374	VV	443	4064	0.04%	0.005%
40	4.271	374	376	378	VV 2	794	7793	0.07%	0.009%
41	4.328	378	384	389	VV	1055	22577	0.21%	0.026%
42	4.371	389	390	392	VV	769	6585	0.06%	0.008%
43	4.414	392	396	402	VV 2	587	13272	0.12%	0.016%
44	4.471	402	404	408	VV	765	11432	0.10%	0.013%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.514	408	410	411	VV 2	467	3503	0.03%	0.004%
46	4.550	411	415	418	VV 2	562	10157	0.09%	0.012%
47	4.593	418	421	423	VV 2	566	8092	0.07%	0.009%
48	4.658	423	430	435	VV 3	988	33515	0.31%	0.039%
49	4.708	435	437	442	VV	868	11862	0.11%	0.014%
50	4.786	442	448	453	VV 2	903	27563	0.25%	0.032%
51	4.829	453	454	457	VV	550	8655	0.08%	0.010%
52	4.872	457	460	465	VV 2	502	13197	0.12%	0.015%
53	4.944	465	470	472	VV 2	849	15573	0.14%	0.018%
54	4.973	472	474	477	VV	598	7236	0.07%	0.008%
55	5.037	477	483	485	VV 2	640	13386	0.12%	0.016%
56	5.087	485	490	492	VV 2	1081	19041	0.17%	0.022%
57	5.109	492	493	497	VV 2	635	13631	0.12%	0.016%
58	5.166	497	501	503	VV	1250	21440	0.20%	0.025%
59	5.188	503	504	507	VV	1135	13373	0.12%	0.016%
60	5.216	507	508	513	VV 2	686	7757	0.07%	0.009%
61	5.274	513	516	524	VV 2	744	18929	0.17%	0.022%
62	5.338	524	525	528	VV	580	6768	0.06%	0.008%
63	5.374	528	530	531	VV	589	5672	0.05%	0.007%
64	5.410	531	535	537	VV 2	606	11463	0.10%	0.013%
65	5.438	537	539	542	VV 2	677	9457	0.09%	0.011%
66	5.503	542	548	560	VV 2	826	35927	0.33%	0.042%
67	5.610	560	563	565	VV 2	543	8870	0.08%	0.010%
68	5.632	565	566	569	VV 2	731	8933	0.08%	0.010%
69	5.660	569	570	575	VV 2	748	11656	0.11%	0.014%
70	5.710	575	577	582	VV 2	700	10267	0.09%	0.012%
71	5.768	582	585	586	VV 2	574	8368	0.08%	0.010%
72	5.789	586	588	593	VV 2	734	13956	0.13%	0.016%
73	5.839	593	595	597	VV	536	7948	0.07%	0.009%
74	5.890	597	602	605	VV	890	18538	0.17%	0.022%
75	5.925	605	607	609	VV	443	4084	0.04%	0.005%
76	5.983	609	615	620	VV 2	653	21527	0.20%	0.025%
77	6.033	620	622	631	VV 2	727	24093	0.22%	0.028%
78	6.126	631	635	640	VV 2	809	16763	0.15%	0.020%
79	6.176	640	642	644	VV	698	10074	0.09%	0.012%
80	6.226	644	649	650	VV 2	809	11881	0.11%	0.014%
81	6.248	650	652	654	VV	564	6235	0.06%	0.007%
82	6.291	654	658	660	VV	704	14744	0.13%	0.017%
83	6.334	660	664	672	VV 2	662	17280	0.16%	0.020%
84	6.412	672	675	677	PV	582	6324	0.06%	0.007%
85	6.455	677	681	682	VV 2	723	9485	0.09%	0.011%
86	6.477	682	684	686	VV	840	10272	0.09%	0.012%
87	6.498	686	687	689	VV	864	8802	0.08%	0.010%
88	6.534	689	692	693	VV	557	6328	0.06%	0.007%
89	6.549	693	694	696	VV	510	4834	0.04%	0.006%
90	6.584	696	699	702	VV 2	533	11283	0.10%	0.013%
91	6.627	702	705	710	VV 2	1018	20078	0.18%	0.024%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	6.728	710	719	727	VV	3	4513	134657	1.23%	0.158%
93	6.799	727	729	731	VV	2	769	8824	0.08%	0.010%
94	6.828	731	733	735	VV	2	592	7271	0.07%	0.009%
95	6.864	735	738	741	VV	2	601	11477	0.10%	0.013%
96	6.921	741	746	753	VV	2	632	20668	0.19%	0.024%
97	7.014	753	759	767	VV	2	610	24817	0.23%	0.029%
98	7.157	767	779	798	VV		172880	5462506	49.84%	6.404%
99	7.308	798	800	802	VV		1748	23304	0.21%	0.027%
100	7.337	802	804	806	VV		1181	13278	0.12%	0.016%
101	7.365	806	808	811	VV	2	829	19216	0.18%	0.023%
102	7.415	811	815	817	VV	2	1091	18958	0.17%	0.022%
103	7.458	817	821	827	VV	2	887	28739	0.26%	0.034%
104	7.602	827	841	859	VV		82030	2634466	24.04%	3.089%
105	7.745	859	861	868	VV	3	1775	49480	0.45%	0.058%
106	7.809	868	870	877	VV		1358	34361	0.31%	0.040%
107	7.881	877	880	883	VV	2	1023	16183	0.15%	0.019%
108	7.974	883	893	912	VV		298586	9129180	83.29%	10.703%
109	8.124	912	914	918	VV		2030	30711	0.28%	0.036%
110	8.225	918	928	942	VV		93566	2852913	26.03%	3.345%
111	8.339	942	944	947	VV	2	1433	21121	0.19%	0.025%
112	8.389	947	951	954	VV	3	933	21913	0.20%	0.026%
113	8.418	954	955	957	VV		701	7091	0.06%	0.008%
114	8.447	957	959	963	VV		492	7886	0.07%	0.009%
115	8.490	963	965	969	VV		794	10929	0.10%	0.013%
116	8.540	969	972	974	VV	2	547	8447	0.08%	0.010%
117	8.583	974	978	985	VV	3	899	29303	0.27%	0.034%
118	8.647	985	987	989	VV	3	548	6452	0.06%	0.008%
119	8.669	989	990	992	VV		608	7137	0.07%	0.008%
120	8.712	992	996	998	VV	2	718	13033	0.12%	0.015%
121	8.755	998	1002	1006	VV	2	743	20039	0.18%	0.023%
122	8.798	1006	1008	1012	VV		695	12636	0.12%	0.015%
123	8.841	1012	1014	1015	VV		495	5933	0.05%	0.007%
124	8.912	1015	1024	1030	VV	2	84457	2449906	22.35%	2.872%
125	8.998	1030	1036	1051	VV	2	116981	3532596	32.23%	4.142%
126	9.120	1051	1053	1057	VV	2	1175	27092	0.25%	0.032%
127	9.163	1057	1059	1061	VV		1423	15020	0.14%	0.018%
128	9.249	1061	1071	1073	VV	2	784	28151	0.26%	0.033%
129	9.271	1073	1074	1077	VV		548	5905	0.05%	0.007%
130	9.321	1077	1081	1088	VV	2	799	27947	0.25%	0.033%
131	9.392	1088	1091	1095	VV		1120	16567	0.15%	0.019%
132	9.428	1095	1096	1101	VV	2	569	8653	0.08%	0.010%
133	9.478	1101	1103	1106	VV		769	9306	0.08%	0.011%
134	9.579	1106	1117	1141	PV	2	189477	5852134	53.39%	6.861%
135	9.765	1141	1143	1146	VV	2	1190	16035	0.15%	0.019%
136	9.801	1146	1148	1151	VV	2	738	12298	0.11%	0.014%
137	9.851	1151	1155	1157	VV		690	12050	0.11%	0.014%
138	9.894	1157	1161	1166	VV	2	783	23507	0.21%	0.028%
139	9.944	1166	1168	1172	VV	2	663	11495	0.10%	0.013%

0173

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	9.987	1172	1174	1185	VV	2	761	28860	0.26%	0.034%
141	10.080	1185	1187	1189	VV		829	10667	0.10%	0.013%
142	10.152	1189	1197	1205	VV	3	1433	52174	0.48%	0.061%
143	10.230	1205	1208	1210	VV	2	764	11769	0.11%	0.014%
144	10.259	1210	1212	1216	VV	2	1026	15769	0.14%	0.018%
145	10.302	1216	1218	1219	VV		894	9060	0.08%	0.011%
146	10.331	1219	1222	1224	VV	2	695	10694	0.10%	0.013%
147	10.374	1224	1228	1230	VV	2	662	12649	0.12%	0.015%
148	10.402	1230	1232	1235	VV		584	8409	0.08%	0.010%
149	10.445	1235	1238	1241	VV		733	11848	0.11%	0.014%
150	10.481	1241	1243	1247	VV		708	12038	0.11%	0.014%
151	10.531	1247	1250	1256	VV	2	904	17457	0.16%	0.020%
152	10.596	1256	1259	1262	VV	2	565	11159	0.10%	0.013%
153	10.674	1262	1270	1274	VV	2	878	27435	0.25%	0.032%
154	10.775	1274	1284	1313	VV		246659	6661886	60.78%	7.810%
155	11.004	1313	1316	1318	VV	2	856	17939	0.16%	0.021%
156	11.097	1318	1329	1348	VV		397873	10960755	100.00%	12.850%
157	11.240	1348	1349	1355	VV	2	1350	25577	0.23%	0.030%
158	11.298	1355	1357	1358	VV	2	937	8983	0.08%	0.011%
159	11.319	1358	1360	1371	VV	2	937	26308	0.24%	0.031%
160	11.412	1371	1373	1381	VV	2	720	18963	0.17%	0.022%
161	11.477	1381	1382	1384	VV		714	8036	0.07%	0.009%
162	11.520	1384	1388	1396	VV	3	900	32538	0.30%	0.038%
163	11.591	1396	1398	1399	VV		814	6794	0.06%	0.008%
164	11.613	1399	1401	1406	VV	2	596	15161	0.14%	0.018%
165	11.663	1406	1408	1418	VV	3	1096	37431	0.34%	0.044%
166	11.742	1418	1419	1421	VV		705	5621	0.05%	0.007%
167	11.835	1421	1432	1449	VV		132117	3615387	32.98%	4.239%
168	11.971	1449	1451	1453	VV		752	8938	0.08%	0.010%
169	11.992	1453	1454	1458	VV		1006	16868	0.15%	0.020%
170	12.028	1458	1459	1462	VV		849	11404	0.10%	0.013%
171	12.064	1462	1464	1471	VV		895	26827	0.24%	0.031%
172	12.164	1471	1478	1479	VV	3	757	20824	0.19%	0.024%
173	12.186	1479	1481	1484	VV		730	10848	0.10%	0.013%
174	12.229	1484	1487	1493	VV		662	17862	0.16%	0.021%
175	12.279	1493	1494	1496	VV		784	5944	0.05%	0.007%
176	12.336	1496	1502	1504	VV		705	17409	0.16%	0.020%
177	12.379	1504	1508	1513	VV	2	703	19649	0.18%	0.023%
178	12.465	1513	1520	1524	VV	2	585	23770	0.22%	0.028%
179	12.515	1524	1527	1533	VV	2	990	21538	0.20%	0.025%
180	12.580	1533	1536	1540	VV	2	790	12824	0.12%	0.015%
181	12.623	1540	1542	1544	VV		568	6835	0.06%	0.008%
182	12.687	1544	1551	1556	VV	3	742	26782	0.24%	0.031%
183	12.730	1556	1557	1559	VV		588	6354	0.06%	0.007%
184	12.759	1559	1561	1564	VV		678	9176	0.08%	0.011%
185	12.802	1564	1567	1568	VV	2	667	8506	0.08%	0.010%
186	12.823	1568	1570	1573	VV	2	545	7653	0.07%	0.009%

0174

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	12.888	1573	1579	1581	VV		854	18120	0.17%	0.021%
188	12.931	1581	1585	1588	VV		700	13404	0.12%	0.016%
189	12.967	1588	1590	1597	VV	2	875	15723	0.14%	0.018%
190	13.038	1597	1600	1602	VV	2	732	10299	0.09%	0.012%
191	13.146	1602	1615	1635	VV	2	123396	4977401	45.41%	5.835%
192	13.296	1635	1636	1645	VV	3	1542	46889	0.43%	0.055%
193	13.375	1645	1647	1650	VV		1130	20710	0.19%	0.024%
194	13.411	1650	1652	1656	VV		1060	15938	0.15%	0.019%
195	13.447	1656	1657	1661	VV		966	13325	0.12%	0.016%
196	13.490	1661	1663	1665	VV		700	8958	0.08%	0.011%
197	13.568	1665	1674	1686	VV		145956	4069896	37.13%	4.771%
198	13.669	1686	1688	1690	VV		1534	15811	0.14%	0.019%
199	13.690	1690	1691	1696	VV	2	1028	19551	0.18%	0.023%
200	13.740	1696	1698	1699	VV		623	6818	0.06%	0.008%
201	13.762	1699	1701	1703	VV		636	9014	0.08%	0.011%
202	13.798	1703	1706	1711	VV		751	14764	0.13%	0.017%
203	13.841	1711	1712	1721	VV		563	18801	0.17%	0.022%
204	13.934	1721	1725	1730	VV	3	1069	27983	0.26%	0.033%
205	13.984	1730	1732	1734	VV		574	6225	0.06%	0.007%
206	14.027	1734	1738	1743	VV		588	17303	0.16%	0.020%
207	14.077	1743	1745	1748	VV	2	622	8359	0.08%	0.010%
208	14.134	1748	1753	1755	VV	2	640	10372	0.09%	0.012%
209	14.192	1755	1761	1764	VV	2	823	20335	0.19%	0.024%
210	14.249	1764	1769	1771	VV		603	12875	0.12%	0.015%
211	14.306	1771	1777	1780	VV		760	21108	0.19%	0.025%
212	14.385	1780	1788	1792	VV	2	591	21423	0.20%	0.025%
213	14.435	1792	1795	1797	VV	2	593	10012	0.09%	0.012%
214	14.492	1797	1803	1807	VV	2	739	18062	0.16%	0.021%
215	14.528	1807	1808	1813	VV		864	13805	0.13%	0.016%
216	14.578	1813	1815	1819	VV		673	11208	0.10%	0.013%
217	14.636	1819	1823	1825	VV		822	12141	0.11%	0.014%
218	14.693	1825	1831	1834	VV	3	871	24519	0.22%	0.029%
219	14.765	1834	1841	1842	VV	2	601	12682	0.12%	0.015%
220	14.786	1842	1844	1848	VV		489	9889	0.09%	0.012%
221	14.829	1848	1850	1853	VV		541	7603	0.07%	0.009%
222	14.872	1853	1856	1865	VV	2	512	18197	0.17%	0.021%
223	14.951	1865	1867	1869	VV	2	536	6465	0.06%	0.008%
224	14.994	1869	1873	1875	VV	2	635	12789	0.12%	0.015%
225	15.044	1875	1880	1882	VV		645	11767	0.11%	0.014%
226	15.065	1882	1883	1887	VV		537	8303	0.08%	0.010%
227	15.116	1887	1890	1899	VV		717	21483	0.20%	0.025%
228	15.202	1899	1902	1904	VV		488	7233	0.07%	0.008%
229	15.252	1904	1909	1915	VV	2	645	19430	0.18%	0.023%
230	15.316	1915	1918	1920	VV	2	663	8364	0.08%	0.010%
231	15.366	1920	1925	1928	VV	2	523	9871	0.09%	0.012%
232	15.402	1928	1930	1938	VV	2	718	20184	0.18%	0.024%
233	15.481	1938	1941	1943	VV		620	8529	0.08%	0.010%
234	15.545	1943	1950	1953	VV	2	539	20011	0.18%	0.023%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.581	1953	1955	1957	VV		666	7449	0.07%	0.009%
236	15.603	1957	1958	1960	VV		680	7317	0.07%	0.009%
237	15.631	1960	1962	1964	VV		850	9458	0.09%	0.011%
238	15.681	1964	1969	1975	VV	2	621	17789	0.16%	0.021%
239	15.732	1975	1976	1983	VV	2	611	15510	0.14%	0.018%
240	15.810	1983	1987	1991	VV	2	444	9875	0.09%	0.012%
241	15.846	1991	1992	1994	VV		799	6638	0.06%	0.008%
242	15.932	1994	2004	2008	VV	2	577	24135	0.22%	0.028%
243	16.047	2008	2020	2032	VV		82870	2233050	20.37%	2.618%
244	16.147	2032	2034	2038	VV	2	526	9112	0.08%	0.011%
245	16.219	2038	2044	2046	VV	2	847	14846	0.14%	0.017%
246	16.262	2046	2050	2063	VV	2	545	29886	0.27%	0.035%
247	16.369	2063	2065	2071	VV	2	610	15021	0.14%	0.018%
248	16.426	2071	2073	2077	VV		534	8133	0.07%	0.010%
249	16.469	2077	2079	2081	VV		645	6961	0.06%	0.008%
250	16.498	2081	2083	2084	VV		313	3442	0.03%	0.004%
251	16.541	2084	2089	2091	VV	2	678	15651	0.14%	0.018%
252	16.570	2091	2093	2096	VV	2	501	7534	0.07%	0.009%
253	16.605	2096	2098	2102	VV	2	562	8831	0.08%	0.010%
254	16.648	2102	2104	2111	VV		404	10113	0.09%	0.012%
255	16.713	2111	2113	2118	VV	2	592	13161	0.12%	0.015%
256	16.763	2118	2120	2127	VV	2	657	15438	0.14%	0.018%
257	16.842	2127	2131	2133	VV		713	8345	0.08%	0.010%
258	16.871	2133	2135	2139	VV		607	8851	0.08%	0.010%
259	16.913	2139	2141	2142	VV		508	3740	0.03%	0.004%
260	16.949	2142	2146	2149	VV	2	704	13400	0.12%	0.016%
261	16.985	2149	2151	2156	VV	2	561	12555	0.11%	0.015%
262	17.028	2156	2157	2159	VV		580	5174	0.05%	0.006%
263	17.050	2159	2160	2164	VV		545	6542	0.06%	0.008%
264	17.093	2164	2166	2188	VV	2	618	37793	0.34%	0.044%
265	17.264	2188	2190	2194	VV	2	921	12287	0.11%	0.014%
266	17.315	2194	2197	2199	VV		727	8836	0.08%	0.010%
267	17.365	2199	2204	2207	VV	2	731	17547	0.16%	0.021%
268	17.415	2207	2211	2215	VV	2	524	11594	0.11%	0.014%
269	17.458	2215	2217	2218	VV		474	5304	0.05%	0.006%
270	17.487	2218	2221	2226	VV	2	601	13359	0.12%	0.016%
271	17.544	2226	2229	2235	VV	2	498	13318	0.12%	0.016%
272	17.651	2235	2244	2253	VV		95513	2479504	22.62%	2.907%
273	17.723	2253	2254	2257	VV		1014	11599	0.11%	0.014%
274	17.759	2257	2259	2262	VV	2	422	7542	0.07%	0.009%
275	17.809	2262	2266	2268	VV		738	11876	0.11%	0.014%
276	17.830	2268	2269	2278	VV	2	666	20336	0.19%	0.024%
277	17.902	2278	2279	2285	VV	2	677	13601	0.12%	0.016%
278	17.959	2285	2287	2294	VV	2	730	19104	0.17%	0.022%
279	18.024	2294	2296	2298	VV	2	614	7497	0.07%	0.009%
280	18.052	2298	2300	2305	VV	2	942	14129	0.13%	0.017%
281	18.124	2305	2310	2312	VV	2	418	9582	0.09%	0.011%

0176

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.167	2312	2316	2321	VV	744	18523	0.17%	0.022%
283	18.217	2321	2323	2327	VV 2	492	7242	0.07%	0.008%
284	18.267	2327	2330	2338	VV 2	643	19139	0.17%	0.022%
285	18.418	2338	2351	2361	VV	239282	6286401	57.35%	7.370%
286	18.504	2361	2363	2365	VV	1053	11179	0.10%	0.013%
287	18.525	2365	2366	2369	VV	726	8653	0.08%	0.010%
288	18.568	2369	2372	2377	VV 2	834	18954	0.17%	0.022%
289	18.633	2377	2381	2391	VV 3	795	26531	0.24%	0.031%
290	18.719	2391	2393	2395	VV 2	686	7053	0.06%	0.008%
291	18.762	2395	2399	2402	VV 2	709	15554	0.14%	0.018%
292	18.797	2402	2404	2416	VV 2	730	23406	0.21%	0.027%
293	18.905	2416	2419	2423	VV 2	386	9108	0.08%	0.011%
294	18.962	2423	2427	2438	VV 2	681	31030	0.28%	0.036%
295	19.048	2438	2439	2441	VV	380	4000	0.04%	0.005%
296	19.077	2441	2443	2446	VV 2	822	11513	0.11%	0.013%
297	19.105	2446	2447	2451	VV 2	801	9674	0.09%	0.011%
298	19.163	2451	2455	2463	VV 2	657	21094	0.19%	0.025%
299	19.270	2463	2470	2472	VV 2	650	17331	0.16%	0.020%
300	19.299	2472	2474	2476	VV 2	567	6852	0.06%	0.008%
301	19.342	2476	2480	2481	VV	592	10351	0.09%	0.012%
302	19.363	2481	2483	2486	VV	598	8269	0.08%	0.010%
303	19.413	2486	2490	2497	VV 2	624	16333	0.15%	0.019%
304	19.485	2497	2500	2503	VV 2	720	9263	0.08%	0.011%
305	19.514	2503	2504	2506	VV	662	5436	0.05%	0.006%
306	19.564	2506	2511	2513	VV 2	855	13930	0.13%	0.016%
307	19.614	2513	2518	2523	VV 2	606	18106	0.17%	0.021%
308	19.664	2523	2525	2527	VV 2	582	8655	0.08%	0.010%
309	19.729	2527	2534	2536	VV 2	797	14303	0.13%	0.017%
310	19.772	2536	2540	2542	VV	536	11603	0.11%	0.014%
311	19.800	2542	2544	2548	VV 2	537	12356	0.11%	0.014%
312	19.843	2548	2550	2551	VV	656	6016	0.05%	0.007%
313	19.865	2551	2553	2559	VV	515	15377	0.14%	0.018%
314	19.922	2559	2561	2568	VV 2	714	16372	0.15%	0.019%
315	19.994	2568	2571	2572	VV	492	7597	0.07%	0.009%
316	20.037	2572	2577	2582	VV 2	846	19838	0.18%	0.023%
317	20.087	2582	2584	2593	VV 2	539	21421	0.20%	0.025%
318	20.166	2593	2595	2596	VV 2	583	5944	0.05%	0.007%
319	20.187	2596	2598	2601	VV 2	654	8929	0.08%	0.010%
320	20.223	2601	2603	2609	VV	675	13142	0.12%	0.015%
321	20.287	2609	2612	2617	VV 2	432	10165	0.09%	0.012%
322	20.337	2617	2619	2622	VV	517	7239	0.07%	0.008%
323	20.373	2622	2624	2626	VV 2	740	8253	0.08%	0.010%
324	20.445	2626	2634	2638	VV	588	18458	0.17%	0.022%
325	20.495	2638	2641	2645	VV 2	841	15951	0.15%	0.019%
326	20.531	2645	2646	2648	VV	472	4181	0.04%	0.005%
327	20.552	2648	2649	2652	VV	560	5371	0.05%	0.006%
328	20.588	2652	2654	2656	VV 2	579	7242	0.07%	0.008%
329	20.617	2656	2658	2664	VV 2	503	8664	0.08%	0.010%

0177

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.703	2664	2670	2674	VV 2	637	16155	0.15%	0.019%
331	20.746	2674	2676	2679	VV 2	459	7458	0.07%	0.009%
332	20.782	2679	2681	2686	VV 2	457	8177	0.07%	0.010%
333	20.825	2686	2687	2688	VV 2	275	2454	0.02%	0.003%
334	20.846	2688	2690	2692	VV 2	456	5841	0.05%	0.007%
335	20.889	2692	2696	2698	VV	808	12558	0.11%	0.015%
336	20.918	2698	2700	2702	VV	718	7973	0.07%	0.009%
337	20.968	2705	2707	2711	PV 2	555	10007	0.09%	0.012%
338	21.011	2711	2713	2715	VV 2	496	5087	0.05%	0.006%
339	21.032	2715	2716	2718	VV	464	4013	0.04%	0.005%
340	21.118	2718	2728	2732	VV 2	660	30142	0.27%	0.035%
341	21.161	2732	2734	2737	VV 2	617	7660	0.07%	0.009%
342	21.211	2737	2741	2749	VV 2	553	19402	0.18%	0.023%
343	21.290	2749	2752	2757	VV 2	504	13772	0.13%	0.016%
344	21.383	2757	2765	2766	VV 2	688	16038	0.15%	0.019%
345	21.405	2766	2768	2770	VV	586	6087	0.06%	0.007%
346	21.441	2770	2773	2776	VV	646	9254	0.08%	0.011%
347	21.483	2776	2779	2782	VV 2	373	7610	0.07%	0.009%
348	21.519	2782	2784	2786	VV	630	7223	0.07%	0.008%
349	21.555	2786	2789	2793	VV 2	525	10299	0.09%	0.012%
350	21.627	2793	2799	2803	VV	464	15488	0.14%	0.018%
351	21.663	2803	2804	2806	VV	504	6360	0.06%	0.007%
352	21.691	2806	2808	2816	VV 2	517	13776	0.13%	0.016%
353	21.770	2816	2819	2820	VV 2	230	3071	0.03%	0.004%
354	21.791	2820	2822	2824	VV	446	4721	0.04%	0.006%
355	21.820	2824	2826	2833	VV 2	740	12115	0.11%	0.014%
356	21.877	2833	2834	2837	VV	382	3992	0.04%	0.005%
357	21.913	2837	2839	2840	VV	572	5338	0.05%	0.006%
358	21.949	2840	2844	2848	VV	689	13233	0.12%	0.016%
359	21.992	2848	2850	2854	VV 2	752	13027	0.12%	0.015%
360	22.057	2854	2859	2868	VV 2	534	22407	0.20%	0.026%
361	22.135	2868	2870	2872	VV	515	6333	0.06%	0.007%
362	22.164	2872	2874	2878	VV 2	638	10334	0.09%	0.012%
363	22.207	2878	2880	2883	VV 2	679	7373	0.07%	0.009%
364	22.271	2883	2889	2895	VV 2	646	16677	0.15%	0.020%
365	22.329	2895	2897	2900	VV	645	7914	0.07%	0.009%
366	22.379	2900	2904	2906	VV	705	8325	0.08%	0.010%
367	22.408	2906	2908	2911	VV 2	551	6963	0.06%	0.008%
368	22.443	2911	2913	2915	VV 2	558	5927	0.05%	0.007%
369	22.486	2915	2919	2924	PV 2	307	7412	0.07%	0.009%
370	22.544	2924	2927	2929	VV	441	4907	0.04%	0.006%
371	22.572	2929	2931	2932	VV 2	497	3610	0.03%	0.004%
372	22.594	2932	2934	2936	VV 2	624	5373	0.05%	0.006%
373	22.630	2936	2939	2943	VV 2	382	6530	0.06%	0.008%
374	22.701	2943	2949	2950	VV 2	425	7853	0.07%	0.009%
375	22.723	2950	2952	2955	VV 2	306	3832	0.03%	0.004%
376	22.780	2955	2960	2964	VV 2	518	8871	0.08%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

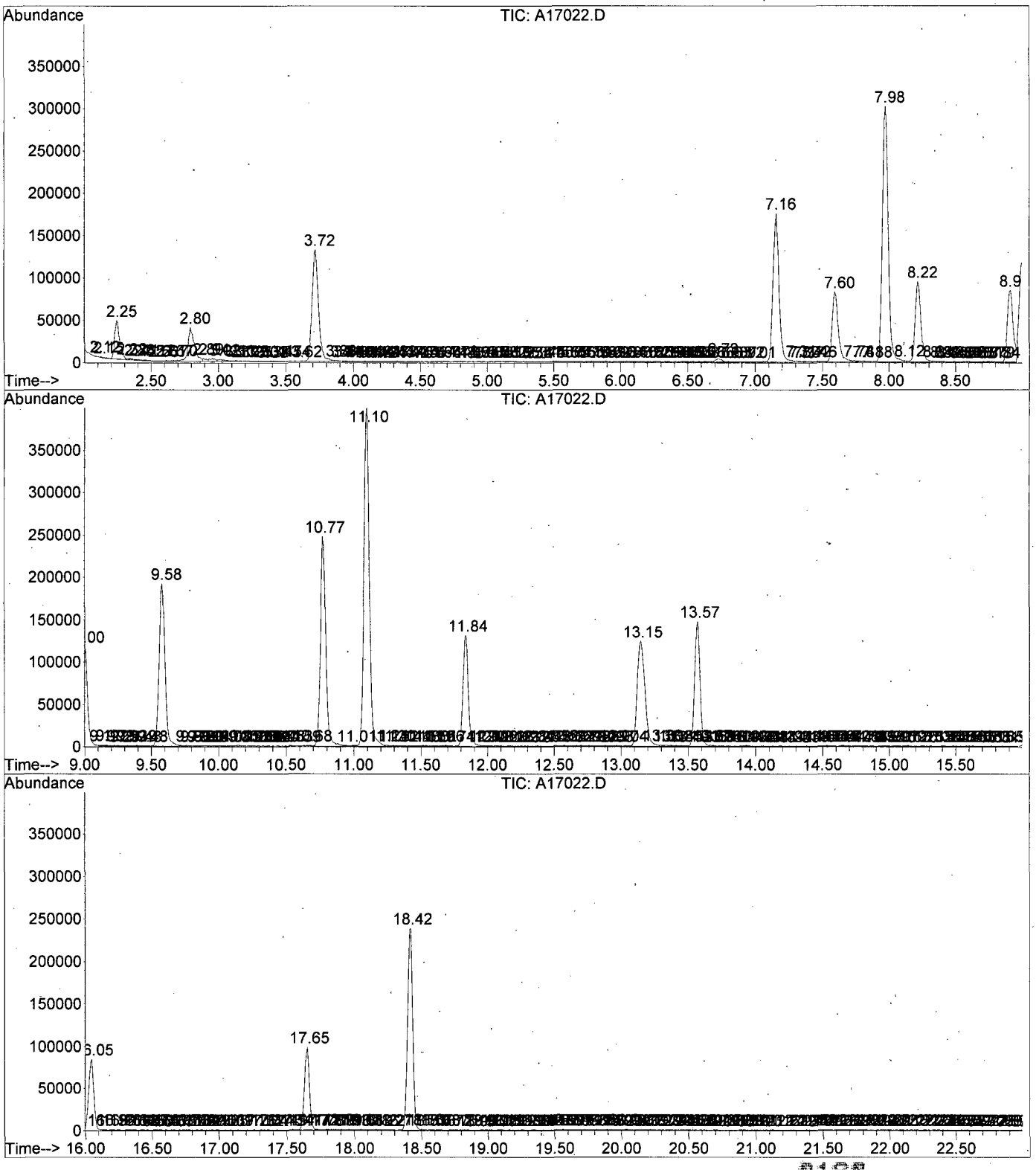
377	22.830	2964	2967	2970	VV 2	463	8351	0.08%	0.010%
378	22.873	2970	2973	2974	VV	296	4281	0.04%	0.005%
379	22.895	2974	2976	2980	VV 2	469	7240	0.07%	0.008%
380	22.930	2980	2981	2984	VV	346	3298	0.03%	0.004%

Sum of corrected areas: 85296976

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

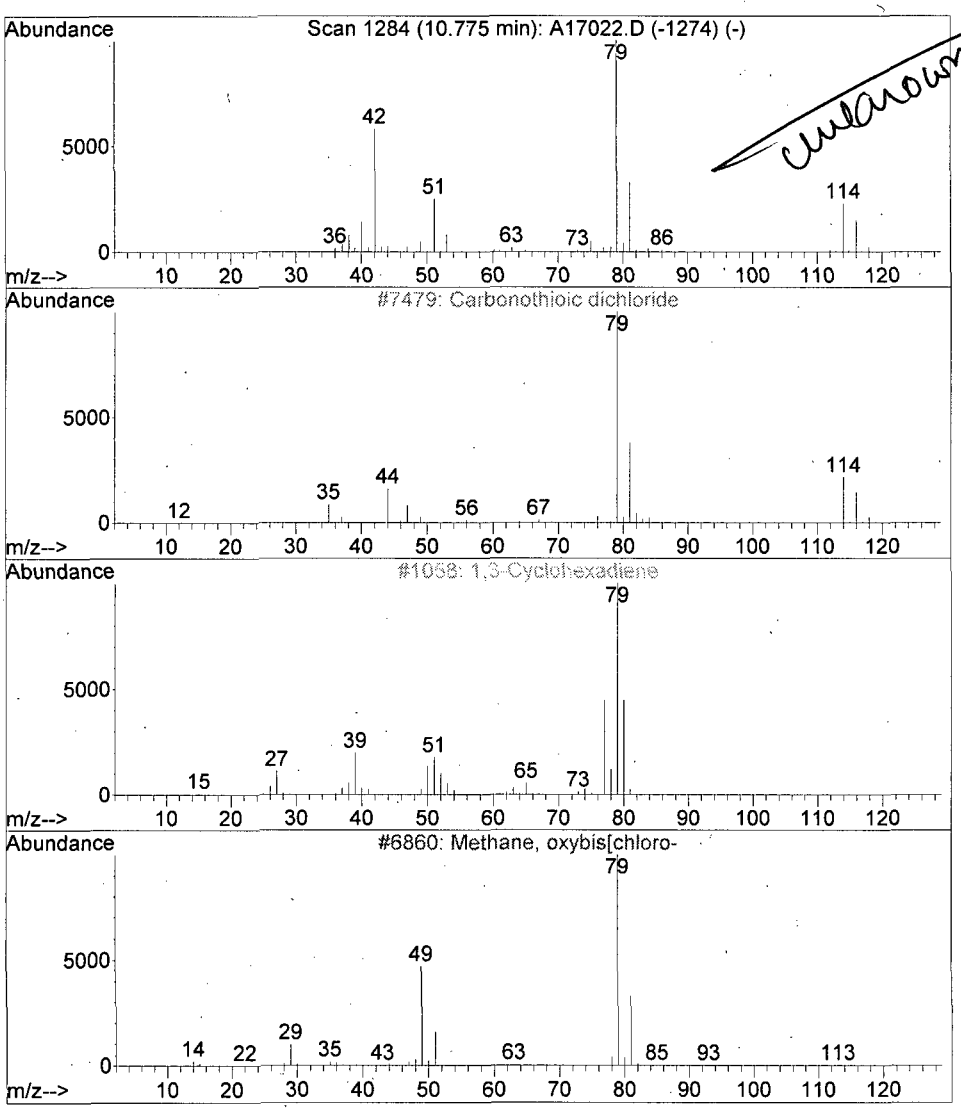
11/28/08

****

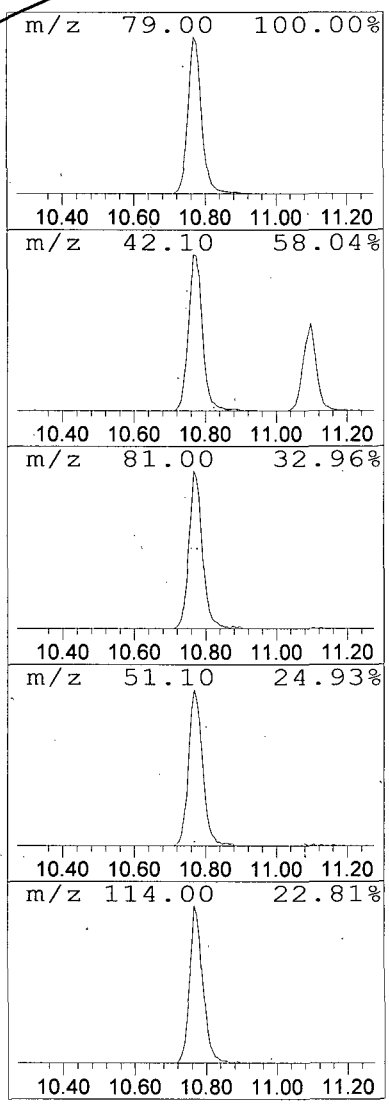
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	9.43 ug/L	6661890	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17



unknown



Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17022.D
Acq On : 11/26/08 15:38 Operator: SB
Sample : F2XE9 Inst : A-5973
Misc : S-2066.17 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	9.4	ug/L	6661890	1	9.00	3532600	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19528

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19528

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19528

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.57	910	J
02		Unknown-02	9.85	9.7	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 14:47:36 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.09	114	2713883	5.00	ug/L	0.02
28) Chlorobenzene-d5	12.65	117	2604286	5.00	ug/L	0.01
59) 1,4-Dichlorobenzene-d4	16.74	152	911894	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	1.97	65	2510800	6.50	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 130.00%			
7) Chloroethane-d5	2.40	69	1195873	6.83	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 136.60%#			
10) 1,1-Dichloroethene-d2	3.13	63	4018234	5.18	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 103.60%			
21) 2-Butanone-d5	6.67	46	2555926	63.03	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 126.06%			
24) Chloroform-d	6.26	84	4490074	5.85	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 117.00%			
26) 1,2-Dichloroethane-d4	7.29	65	2275533	6.48	ug/L	0.01
Spiked Amount 5.000	Range 78 - 129		Recovery = 129.60%#			
32) Benzene-d6	7.07	84	9026008	5.42	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 108.40%			
36) 1,2-Dichloropropane-d6	8.65	67	2709357	5.38	ug/L	0.01
Spiked Amount 5.000	Range 79 - 124		Recovery = 107.60%			
41) Toluene-d8	10.19	98	7831976	5.20	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 104.00%			
43) trans-1,3-Dichloropropene-	10.91	79	2358643	5.08	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 101.60%			
47) 2-Hexanone-d5	12.22	63	1715306	54.04	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 108.08%			
57) 1,1,2,2-Tetrachloroethane-	15.12	84	1441034	5.18	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 103.60%			
63) 1,2-Dichlorobenzene-d4	17.49	152	1948927	5.47	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 109.40%			

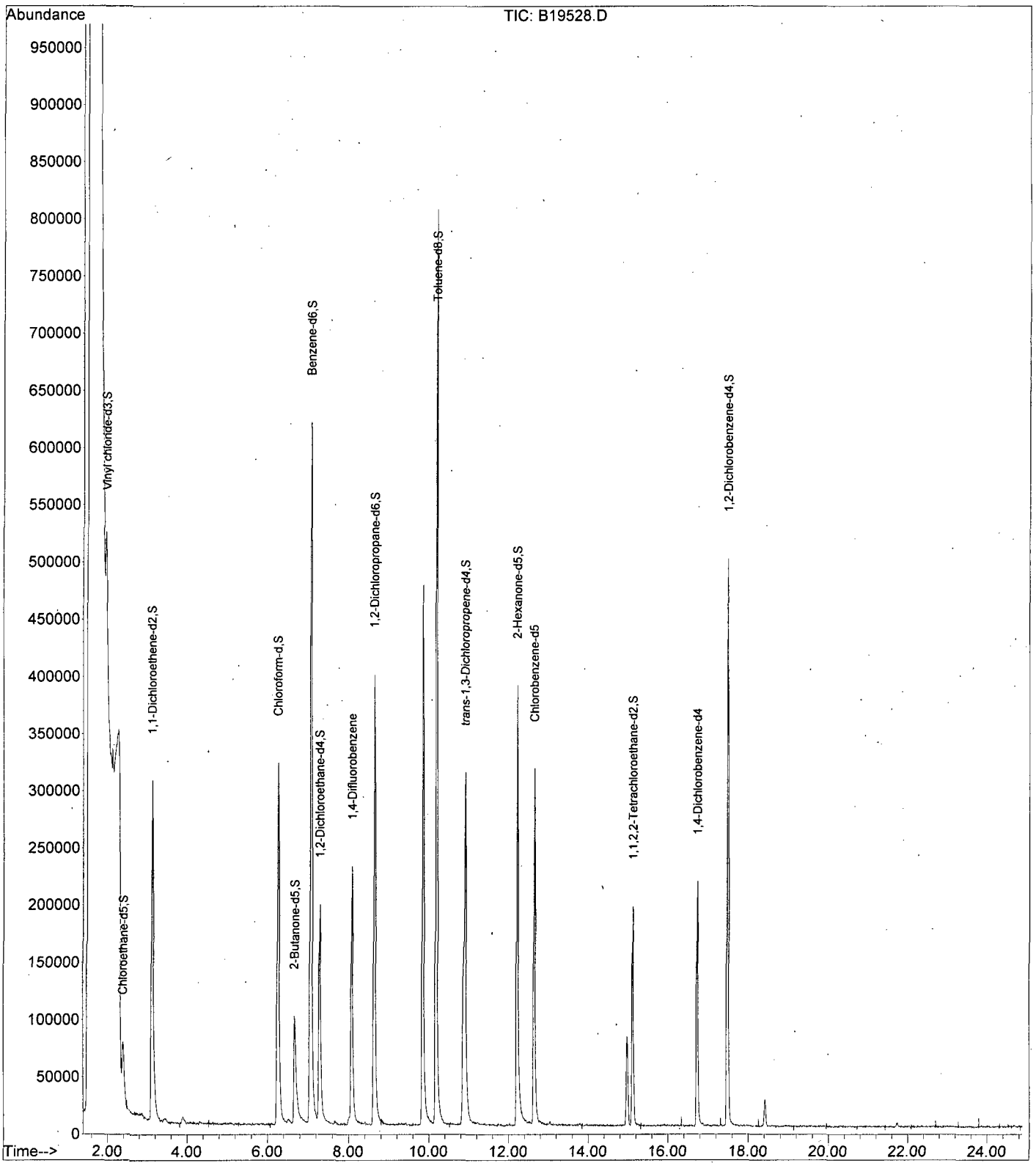
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 14:47:36 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.421	3	6	8	PH 2	14702	330482	0.02%	0.019%
2	1.564	8	26	78	VV	17047186	1382469677	100.00%	79.500%
3	1.957	78	81	103	VV	519937	42154424	3.05%	2.424%
4	2.129	103	105	109	VV	327765	9328231	0.67%	0.536%
5	2.257	109	123	124	VV	343034	20386888	1.47%	1.172%
6	2.279	124	126	138	VV	346982	13149119	0.95%	0.756%
7	2.400	138	143	169	VV 3	73687	4396603	0.32%	0.253%
8	2.601	169	171	175	VV 5	13538	316533	0.02%	0.018%
9	2.644	175	177	180	VV 3	12014	268052	0.02%	0.015%
10	2.686	180	183	185	VV 4	13434	223376	0.02%	0.013%
11	2.715	185	187	188	VV 2	12372	155619	0.01%	0.009%
12	2.765	188	194	197	VV 4	12179	461553	0.03%	0.027%
13	2.808	197	200	203	VV 5	11128	281135	0.02%	0.016%
14	2.872	203	209	216	VV 5	12151	581241	0.04%	0.033%
15	2.937	216	218	228	VV 5	9589	402743	0.03%	0.023%
16	3.030	228	231	236	VV 2	7547	215058	0.02%	0.012%
17	3.137	236	246	268	VV	298216	11406292	0.83%	0.656%
18	3.308	268	270	273	VV 4	8722	161871	0.01%	0.009%
19	3.366	273	278	281	VV 5	6471	201793	0.01%	0.012%
20	3.437	281	288	302	VV 6	7947	551106	0.04%	0.032%
21	3.552	302	304	306	VV 2	5004	87547	0.01%	0.005%
22	3.580	306	308	310	VV	4891	58848	0.00%	0.003%
23	3.616	310	313	318	VV 3	4885	166137	0.01%	0.010%
24	3.666	318	320	322	VV 2	4809	68431	0.00%	0.004%
25	3.709	322	326	329	VV 2	4629	134661	0.01%	0.008%
26	3.766	329	334	336	VV 2	4753	114387	0.01%	0.007%
27	3.788	336	337	341	VV 2	4312	81428	0.01%	0.005%
28	3.895	341	352	364	VV 5	9422	605481	0.04%	0.035%
29	4.016	364	369	371	VV 2	4920	115974	0.01%	0.007%
30	4.045	371	373	375	VV 2	4764	86228	0.01%	0.005%
31	4.074	375	377	379	VV 2	5616	71762	0.01%	0.004%
32	4.095	379	380	384	VV	5075	103851	0.01%	0.006%
33	4.138	384	386	388	VV 2	4794	62666	0.00%	0.004%
34	4.167	388	390	400	VV	5555	209258	0.02%	0.012%
35	4.274	400	405	407	VV 2	4446	127542	0.01%	0.007%
36	4.317	407	411	416	VV 3	5804	165505	0.01%	0.010%
37	4.360	416	417	422	VV 3	4818	108251	0.01%	0.006%
38	4.410	422	424	427	VV	4416	91883	0.01%	0.005%
39	4.445	427	429	434	VV 2	4191	114063	0.01%	0.007%
40	4.495	434	436	438	VV	4396	69277	0.01%	0.004%
41	4.531	438	441	442	VV	4988	77029	0.01%	0.004%
42	4.553	442	444	446	VV	6436	71680	0.01%	0.004%
43	4.581	446	448	454	VV 3	4245	127783	0.01%	0.007%
44	4.646	454	457	461	VV	5309	120449	0.01%	0.007%

0188

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.696	461	464	470	VV	2	4763	152117	0.01%	0.009%
46	4.746	470	471	473	VV		4224	52813	0.00%	0.003%
47	4.767	473	474	476	VV		4646	57061	0.00%	0.003%
48	4.796	476	478	484	VV		3548	114492	0.01%	0.007%
49	4.882	484	490	492	VV	2	4405	121638	0.01%	0.007%
50	4.924	492	496	498	VV	2	4694	107844	0.01%	0.006%
51	4.953	498	500	501	VV		4755	57945	0.00%	0.003%
52	4.974	501	503	505	VV		4923	59992	0.00%	0.003%
53	5.025	505	510	512	VV	3	4857	120388	0.01%	0.007%
54	5.082	512	518	521	VV	3	5234	171955	0.01%	0.010%
55	5.117	521	523	527	VV		4818	98779	0.01%	0.006%
56	5.153	527	528	531	VV	2	3794	56111	0.00%	0.003%
57	5.210	531	536	539	VV	2	4401	135502	0.01%	0.008%
58	5.246	539	541	543	VV	2	4420	61752	0.00%	0.004%
59	5.275	543	545	546	VV	2	4408	55534	0.00%	0.003%
60	5.296	546	548	550	VV		5313	62094	0.00%	0.004%
61	5.318	550	551	557	VV	2	3945	113828	0.01%	0.007%
62	5.375	557	559	563	VV	2	3691	77494	0.01%	0.004%
63	5.411	563	564	567	VV	2	5047	65768	0.00%	0.004%
64	5.446	567	569	570	VV		4541	62630	0.00%	0.004%
65	5.461	570	571	575	VV	2	3945	79711	0.01%	0.005%
66	5.539	575	582	584	VV	2	4281	134534	0.01%	0.008%
67	5.561	584	585	592	VV		4133	132529	0.01%	0.008%
68	5.632	592	595	600	VV		5008	133016	0.01%	0.008%
69	5.697	600	604	606	VV	2	4207	98268	0.01%	0.006%
70	5.747	606	611	615	VV	3	4693	168601	0.01%	0.010%
71	5.790	615	617	618	VV		4208	49681	0.00%	0.003%
72	5.811	618	620	622	VV		4193	51063	0.00%	0.003%
73	5.847	622	625	629	VV	2	4802	136061	0.01%	0.008%
74	5.897	629	632	636	VV	2	5045	123443	0.01%	0.007%
75	5.940	636	638	641	VV	2	4113	76629	0.01%	0.004%
76	5.976	641	643	644	VV	2	4414	52085	0.00%	0.003%
77	5.997	644	646	649	VV	2	4306	81814	0.01%	0.005%
78	6.033	649	651	653	VV	2	4763	76307	0.01%	0.004%
79	6.061	653	655	659	VV	3	4605	90337	0.01%	0.005%
80	6.111	659	662	670	VV	2	5138	187791	0.01%	0.011%
81	6.183	670	672	673	VV	2	4606	50551	0.00%	0.003%
82	6.269	673	684	702	VV		318233	11733811	0.85%	0.675%
83	6.405	702	703	706	VV	2	8857	135817	0.01%	0.008%
84	6.440	706	708	713	VV	2	7100	184552	0.01%	0.011%
85	6.512	713	718	723	VV	6	8577	329154	0.02%	0.019%
86	6.562	723	725	729	VV	2	7474	165898	0.01%	0.010%
87	6.676	729	741	769	VV	2	98371	4979407	0.36%	0.286%
88	6.898	769	772	781	VV	2	8341	370336	0.03%	0.021%
89	6.977	781	783	785	VV	3	6719	111351	0.01%	0.006%
90	7.077	785	797	817	VV		613395	20712274	1.50%	1.191%
91	7.291	817	827	858	VV		195896	7656487	0.55%	0.440%

0189

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.520	858	859	863	VV	3	6636	142962	0.01%	0.008%
93	7.563	863	865	873	VV	3	5996	218185	0.02%	0.013%
94	7.656	873	878	884	VV	4	7355	291904	0.02%	0.017%
95	7.706	884	885	891	VV	3	6333	152811	0.01%	0.009%
96	7.756	891	892	898	VV	2	5288	152957	0.01%	0.009%
97	7.820	898	901	905	VV	3	6155	143291	0.01%	0.008%
98	7.863	905	907	908	VV	2	5672	79528	0.01%	0.005%
99	7.892	908	911	913	VV		6322	117787	0.01%	0.007%
100	7.920	913	915	920	VV	2	5536	129870	0.01%	0.007%
101	8.013	920	928	929	VV	4	11206	316216	0.02%	0.018%
102	8.085	929	938	958	VV		227073	7619828	0.55%	0.438%
103	8.242	958	960	963	VV	2	8022	160973	0.01%	0.009%
104	8.278	963	965	967	VV		7577	98367	0.01%	0.006%
105	8.299	967	968	970	VV		6761	92396	0.01%	0.005%
106	8.328	970	972	976	VV	2	7114	165838	0.01%	0.010%
107	8.371	976	978	981	VV	2	5922	110749	0.01%	0.006%
108	8.414	981	984	986	VV		7233	144845	0.01%	0.008%
109	8.442	986	988	994	VV	4	5640	182457	0.01%	0.010%
110	8.514	994	998	1004	VV	3	5825	208666	0.02%	0.012%
111	8.643	1004	1016	1039	VV		392882	13137952	0.95%	0.756%
112	8.821	1039	1041	1043	VV		9592	131934	0.01%	0.008%
113	8.843	1043	1044	1046	VV		8466	88307	0.01%	0.005%
114	8.871	1046	1048	1055	VV	7	7245	246779	0.02%	0.014%
115	8.936	1055	1057	1062	VV	2	5961	161892	0.01%	0.009%
116	9.000	1062	1066	1071	VV	3	5404	197412	0.01%	0.011%
117	9.043	1071	1072	1077	VV	3	5732	139332	0.01%	0.008%
118	9.093	1077	1079	1085	VV	3	5563	193677	0.01%	0.011%
119	9.150	1085	1087	1089	VV		5448	74806	0.01%	0.004%
120	9.179	1089	1091	1093	VV	2	5723	96700	0.01%	0.006%
121	9.200	1093	1094	1103	VV	2	5821	234506	0.02%	0.013%
122	9.272	1103	1104	1106	VV		6163	85024	0.01%	0.005%
123	9.315	1106	1110	1114	VV	2	6849	191211	0.01%	0.011%
124	9.350	1114	1115	1121	VV		6099	187701	0.01%	0.011%
125	9.422	1121	1125	1131	VV	3	6998	247629	0.02%	0.014%
126	9.493	1131	1135	1139	VV	2	5685	181162	0.01%	0.010%
127	9.536	1139	1141	1143	VV		5355	81086	0.01%	0.005%
128	9.565	1143	1145	1148	VV	2	5727	96086	0.01%	0.006%
129	9.601	1148	1150	1152	VV		6533	99837	0.01%	0.006%
130	9.644	1152	1156	1162	VV	2	5627	230805	0.02%	0.013%
131	9.694	1162	1163	1166	VV	2	5447	102806	0.01%	0.006%
132	9.737	1166	1169	1175	VV	2	5948	193750	0.01%	0.011%
133	9.851	1175	1185	1222	VV		473036	14823565	1.07%	0.852%
134	10.187	1222	1232	1260	VV		811906	22843899	1.65%	1.314%
135	10.402	1260	1262	1266	VV	3	7363	181706	0.01%	0.010%
136	10.444	1266	1268	1278	VV		7184	330789	0.02%	0.019%
137	10.552	1278	1283	1287	VV	2	7527	226165	0.02%	0.013%
138	10.587	1287	1288	1291	VV	2	7034	118965	0.01%	0.007%
139	10.623	1291	1293	1295	VV	2	6927	99018	0.01%	0.006%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	10.637	1295	1295	1298	VV		6326	92628	0.01%	0.005%
141	10.673	1298	1300	1303	VV	2	6373	131690	0.01%	0.008%
142	10.716	1303	1306	1313	VV	2	6516	248178	0.02%	0.014%
143	10.780	1313	1315	1317	VV		7100	126426	0.01%	0.007%
144	10.909	1317	1333	1361	VV	3	312267	14065254	1.02%	0.809%
145	11.124	1361	1363	1367	VV	4	9433	223355	0.02%	0.013%
146	11.167	1367	1369	1372	VV	2	8182	153560	0.01%	0.009%
147	11.231	1372	1378	1383	VV	3	8663	374888	0.03%	0.022%
148	11.331	1383	1392	1395	VV	3	7392	358548	0.03%	0.021%
149	11.381	1395	1399	1405	VV	5	7398	303109	0.02%	0.017%
150	11.445	1405	1408	1410	VV		6577	121101	0.01%	0.007%
151	11.467	1410	1411	1413	VV	2	6587	100361	0.01%	0.006%
152	11.510	1413	1417	1428	VV	2	7156	397298	0.03%	0.023%
153	11.603	1428	1430	1433	VV	2	6916	151057	0.01%	0.009%
154	11.639	1433	1435	1439	VV	3	6944	160120	0.01%	0.009%
155	11.681	1439	1441	1448	VV	2	6150	227648	0.02%	0.013%
156	11.746	1448	1450	1457	VV	3	7377	262454	0.02%	0.015%
157	11.810	1457	1459	1463	VV	2	7294	175343	0.01%	0.010%
158	11.867	1463	1467	1471	VV	2	6528	195031	0.01%	0.011%
159	11.910	1471	1473	1476	VV	2	6194	120764	0.01%	0.007%
160	11.946	1476	1478	1482	VV	2	6699	171735	0.01%	0.010%
161	12.025	1482	1489	1491	VV	2	7785	255157	0.02%	0.015%
162	12.068	1491	1495	1499	VV	3	6738	196489	0.01%	0.011%
163	12.110	1499	1501	1504	VV	2	6767	150977	0.01%	0.009%
164	12.146	1504	1506	1508	VV	2	6830	96586	0.01%	0.006%
165	12.218	1508	1516	1540	VV	2	388266	12247467	0.89%	0.704%
166	12.396	1540	1541	1546	VV	3	12355	278169	0.02%	0.016%
167	12.439	1546	1547	1551	VV	3	10977	241729	0.02%	0.014%
168	12.482	1551	1553	1557	VV	5	9158	226434	0.02%	0.013%
169	12.525	1557	1559	1561	VV	2	9724	146397	0.01%	0.008%
170	12.554	1561	1563	1567	VV	3	9306	217279	0.02%	0.012%
171	12.654	1567	1577	1592	VV	2	314620	9373419	0.68%	0.539%
172	12.775	1592	1594	1598	VV	3	10932	252178	0.02%	0.015%
173	12.818	1598	1600	1602	VV	2	9924	160364	0.01%	0.009%
174	12.854	1602	1605	1609	VV	3	9186	245647	0.02%	0.014%
175	12.897	1609	1611	1616	VV	2	8508	223573	0.02%	0.013%
176	12.940	1616	1617	1619	VV	2	7634	101013	0.01%	0.006%
177	12.983	1619	1623	1626	VV	2	8353	217122	0.02%	0.012%
178	13.047	1626	1632	1638	VV	4	9947	441708	0.03%	0.025%
179	13.119	1638	1642	1645	VV		8255	231229	0.02%	0.013%
180	13.176	1645	1650	1654	VV	4	7712	274024	0.02%	0.016%
181	13.219	1654	1656	1660	VV	2	7614	165668	0.01%	0.010%
182	13.262	1660	1662	1669	VV	3	7779	276485	0.02%	0.016%
183	13.319	1669	1670	1672	VV	2	7544	96999	0.01%	0.006%
184	13.347	1672	1674	1676	VV	2	8018	136104	0.01%	0.008%
185	13.376	1676	1678	1681	VV	2	7924	162692	0.01%	0.009%
186	13.412	1681	1683	1690	VV	4	7576	264576	0.02%	0.015%

0191

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	13.476	1690	1692	1694	VV 2	7169	117076	0.01%	0.007%
188	13.512	1694	1697	1699	VV 2	7879	151831	0.01%	0.009%
189	13.533	1699	1700	1702	VV	7723	102010	0.01%	0.006%
190	13.576	1702	1706	1710	VV 2	7712	249302	0.02%	0.014%
191	13.619	1710	1712	1714	VV 2	7576	111717	0.01%	0.006%
192	13.662	1714	1718	1720	VV 2	7674	193710	0.01%	0.011%
193	13.691	1720	1722	1724	VV 2	7442	115278	0.01%	0.007%
194	13.734	1724	1728	1735	VV 3	8261	340141	0.02%	0.020%
195	13.798	1735	1737	1742	VV 3	8594	226337	0.02%	0.013%
196	13.862	1742	1746	1749	VV 2	8146	205665	0.01%	0.012%
197	13.941	1749	1757	1759	VV 3	7674	322137	0.02%	0.019%
198	13.969	1759	1761	1765	VV 2	8149	161579	0.01%	0.009%
199	14.005	1765	1766	1777	VV 3	7006	377277	0.03%	0.022%
200	14.091	1777	1778	1782	VV 2	7520	140897	0.01%	0.008%
201	14.127	1782	1783	1785	VV	7601	89921	0.01%	0.005%
202	14.155	1785	1787	1791	VV 2	7595	190188	0.01%	0.011%
203	14.205	1791	1794	1798	VV 2	7889	213825	0.02%	0.012%
204	14.241	1798	1799	1803	VV 3	7894	165229	0.01%	0.010%
205	14.284	1803	1805	1807	VV	7840	105604	0.01%	0.006%
206	14.313	1807	1809	1811	VV 2	7955	135684	0.01%	0.008%
207	14.334	1811	1812	1814	VV	7642	97049	0.01%	0.006%
208	14.384	1814	1819	1822	VV 3	7870	229115	0.02%	0.013%
209	14.413	1822	1823	1826	VV 2	7316	130148	0.01%	0.007%
210	14.449	1826	1828	1829	VV	7436	96949	0.01%	0.006%
211	14.484	1829	1833	1835	VV 3	8372	186837	0.01%	0.011%
212	14.520	1835	1838	1843	VV 2	7710	257067	0.02%	0.015%
213	14.570	1843	1845	1847	VV 2	7958	116712	0.01%	0.007%
214	14.634	1847	1854	1856	VV	7776	251745	0.02%	0.014%
215	14.663	1856	1858	1860	VV 2	7480	128402	0.01%	0.007%
216	14.699	1860	1863	1865	VV 2	7496	150047	0.01%	0.009%
217	14.756	1865	1871	1874	VV 2	7774	297093	0.02%	0.017%
218	14.799	1874	1877	1878	VV	7826	116955	0.01%	0.007%
219	14.820	1878	1880	1882	VV 2	7863	128664	0.01%	0.007%
220	14.849	1882	1884	1886	VV	7842	113401	0.01%	0.007%
221	14.892	1886	1890	1895	VV 3	7952	281945	0.02%	0.016%
222	14.985	1895	1903	1913	VV 2	85239	2894424	0.21%	0.166%
223	15.121	1913	1922	1937	VV	195457	5736442	0.41%	0.330%
224	15.242	1937	1939	1945	VV 3	9070	290377	0.02%	0.017%
225	15.299	1945	1947	1950	VV 2	8379	176865	0.01%	0.010%
226	15.335	1950	1952	1957	VV	9495	208136	0.02%	0.012%
227	15.385	1957	1959	1961	VV	8193	141669	0.01%	0.008%
228	15.421	1961	1964	1967	VV 3	8199	177531	0.01%	0.010%
229	15.478	1967	1972	1976	VV 3	7790	306161	0.02%	0.018%
230	15.521	1976	1978	1982	VV 2	7792	185648	0.01%	0.011%
231	15.564	1982	1984	1988	VV	7758	178043	0.01%	0.010%
232	15.607	1988	1990	1993	VV 3	7813	150014	0.01%	0.009%
233	15.657	1993	1997	1999	VV	8138	204316	0.01%	0.012%
234	15.678	1999	2000	2003	VV	7771	131669	0.01%	0.008%

0192

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	15.721	2003	2006	2007	VV	2	7834	127616	0.01%	0.007%
236	15.743	2007	2009	2013	VV	2	8261	214807	0.02%	0.012%
237	15.793	2013	2016	2019	VV	2	8177	186040	0.01%	0.011%
238	15.829	2019	2021	2024	VV		8158	146511	0.01%	0.008%
239	15.864	2024	2026	2027	VV	2	8317	122435	0.01%	0.007%
240	15.886	2027	2029	2031	VV		8341	129078	0.01%	0.007%
241	15.914	2031	2033	2037	VV		9245	209951	0.02%	0.012%
242	15.957	2037	2039	2041	VV	2	8260	150567	0.01%	0.009%
243	16.000	2041	2045	2047	VV		8745	207458	0.02%	0.012%
244	16.043	2047	2051	2058	VV	3	8442	356492	0.03%	0.021%
245	16.115	2058	2061	2067	VV	4	8788	289746	0.02%	0.017%
246	16.172	2067	2069	2070	VV		8289	122420	0.01%	0.007%
247	16.200	2070	2073	2076	VV	2	8669	202120	0.01%	0.012%
248	16.236	2076	2078	2080	VV		8415	137808	0.01%	0.008%
249	16.265	2080	2082	2086	VV	2	8638	199143	0.01%	0.011%
250	16.336	2086	2092	2094	VV		13718	296784	0.02%	0.017%
251	16.386	2094	2099	2103	VV	3	8636	293899	0.02%	0.017%
252	16.443	2103	2107	2108	VV	2	8159	171910	0.01%	0.010%
253	16.465	2108	2110	2117	VV	3	8182	311325	0.02%	0.018%
254	16.529	2117	2119	2123	VV	2	8349	193479	0.01%	0.011%
255	16.586	2123	2127	2129	VV	2	8734	212226	0.02%	0.012%
256	16.629	2129	2133	2134	VV	2	7945	173774	0.01%	0.010%
257	16.651	2134	2136	2138	VV	2	7837	120015	0.01%	0.007%
258	16.737	2138	2148	2171	VV	2	221190	6906438	0.50%	0.397%
259	16.930	2171	2175	2177	VV	2	8910	226837	0.02%	0.013%
260	16.965	2177	2180	2182	VV	2	8823	159419	0.01%	0.009%
261	17.001	2182	2185	2188	VV	2	9032	229645	0.02%	0.013%
262	17.037	2188	2190	2191	VV	2	8466	112336	0.01%	0.006%
263	17.058	2191	2193	2197	VV	2	8290	180247	0.01%	0.010%
264	17.116	2197	2201	2205	VV	3	8773	300909	0.02%	0.017%
265	17.159	2205	2207	2209	VV	2	9022	142733	0.01%	0.008%
266	17.187	2209	2211	2216	VV	2	9030	258982	0.02%	0.015%
267	17.237	2216	2218	2221	VV	2	8697	166231	0.01%	0.010%
268	17.273	2221	2223	2226	VV	2	8212	171738	0.01%	0.010%
269	17.309	2226	2228	2231	VV		13605	192044	0.01%	0.011%
270	17.337	2231	2232	2236	VV	2	9032	191104	0.01%	0.011%
271	17.380	2236	2238	2241	VV	3	8504	174995	0.01%	0.010%
272	17.416	2241	2243	2244	VV	2	9031	123266	0.01%	0.007%
273	17.487	2244	2253	2270	VV		497152	13632016	0.99%	0.784%
274	17.616	2270	2271	2275	VV		10095	207679	0.02%	0.012%
275	17.702	2275	2283	2285	VV	5	9455	382507	0.03%	0.022%
276	17.738	2285	2288	2295	VV	3	9193	402335	0.03%	0.023%
277	17.816	2295	2299	2306	VV	2	9177	382283	0.03%	0.022%
278	17.895	2306	2310	2316	VV	3	9403	351301	0.03%	0.020%
279	17.966	2316	2320	2327	VV	3	9428	413226	0.03%	0.024%
280	18.045	2327	2331	2333	VV	2	9246	240654	0.02%	0.014%
281	18.074	2333	2335	2340	VV	3	9257	260012	0.02%	0.015%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	18.145	2340	2345	2349	VV 3	9033	329190	0.02%	0.019%
283	18.188	2349	2351	2353	VV	8937	132497	0.01%	0.008%
284	18.210	2353	2354	2363	VV	9278	416320	0.03%	0.024%
285	18.288	2363	2365	2370	VV 2	8577	250238	0.02%	0.014%
286	18.345	2370	2373	2376	VV 3	9516	195603	0.01%	0.011%
287	18.417	2376	2383	2394	VV 2	31838	1324974	0.10%	0.076%
288	18.510	2394	2396	2404	VV 3	9271	385274	0.03%	0.022%
289	18.603	2404	2409	2411	VV 2	9665	274304	0.02%	0.016%
290	18.631	2411	2413	2416	VV 2	9211	199639	0.01%	0.011%
291	18.674	2416	2419	2421	VV	9271	183306	0.01%	0.011%
292	18.703	2421	2423	2426	VV 2	9139	165353	0.01%	0.010%
293	18.739	2426	2428	2431	VV	9286	182467	0.01%	0.010%
294	18.767	2431	2432	2435	VV 2	8749	142189	0.01%	0.008%
295	18.810	2435	2438	2440	VV	8985	185905	0.01%	0.011%
296	18.839	2440	2442	2445	VV	9168	203355	0.01%	0.012%
297	18.889	2445	2449	2452	VV	9125	240143	0.02%	0.014%
298	18.925	2452	2454	2455	VV	9708	140855	0.01%	0.008%
299	18.946	2455	2457	2459	VV 2	9793	155552	0.01%	0.009%
300	18.975	2459	2461	2465	VV 2	9359	231992	0.02%	0.013%
301	19.025	2465	2468	2472	VV	9644	258841	0.02%	0.015%
302	19.068	2472	2474	2479	VV 2	9476	250793	0.02%	0.014%
303	19.125	2479	2482	2491	VV 3	9375	446922	0.03%	0.026%
304	19.196	2491	2492	2494	VV	9556	124564	0.01%	0.007%
305	19.239	2494	2498	2504	VV 3	9239	365755	0.03%	0.021%
306	19.304	2504	2507	2509	VV	9942	212751	0.02%	0.012%
307	19.332	2509	2511	2512	VV	9232	121116	0.01%	0.007%
308	19.397	2512	2520	2523	VV 3	9447	389737	0.03%	0.022%
309	19.425	2523	2524	2526	VV	9072	148112	0.01%	0.009%
310	19.475	2526	2531	2534	VV 2	9349	287267	0.02%	0.017%
311	19.518	2534	2537	2542	VV 2	9711	304382	0.02%	0.018%
312	19.568	2542	2544	2553	VV 2	9894	444556	0.03%	0.026%
313	19.647	2553	2555	2560	VV 2	9271	269879	0.02%	0.016%
314	19.697	2560	2562	2568	VV 2	9395	281769	0.02%	0.016%
315	19.754	2568	2570	2573	VV 2	9918	208518	0.02%	0.012%
316	19.804	2573	2577	2580	VV 2	9963	271334	0.02%	0.016%
317	19.854	2580	2584	2586	VV 2	9701	230922	0.02%	0.013%
318	19.890	2586	2589	2591	VV 2	9774	187288	0.01%	0.011%
319	19.911	2591	2592	2594	VV	9360	117569	0.01%	0.007%
320	19.940	2594	2596	2597	VV	9588	139633	0.01%	0.008%
321	19.961	2597	2599	2602	VV	10922	214340	0.02%	0.012%
322	19.997	2602	2604	2606	VV	9558	137034	0.01%	0.008%
323	20.040	2606	2610	2614	VV	10253	333894	0.02%	0.019%
324	20.083	2614	2616	2622	VV 2	9544	316310	0.02%	0.018%
325	20.190	2622	2631	2633	VV 2	9663	429089	0.03%	0.025%
326	20.233	2633	2637	2639	VV 2	9639	210276	0.02%	0.012%
327	20.262	2639	2641	2642	VV	9912	137833	0.01%	0.008%
328	20.283	2642	2644	2651	VV 2	9986	341438	0.02%	0.020%
329	20.340	2651	2652	2656	VV 2	10028	223072	0.02%	0.013%

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	20.383	2656	2658	2665	VV 3	10462	348495	0.03%	0.020%
331	20.448	2665	2667	2673	VV 2	9756	318144	0.02%	0.018%
332	20.505	2673	2675	2677	VV 2	10000	168002	0.01%	0.010%
333	20.548	2677	2681	2686	VV 3	10165	388990	0.03%	0.022%
334	20.612	2686	2690	2698	VV 3	9970	470883	0.03%	0.027%
335	20.684	2698	2700	2702	VV	9550	151388	0.01%	0.009%
336	20.712	2702	2704	2707	VV 2	9777	193973	0.01%	0.011%
337	20.748	2707	2709	2711	VV	9924	169916	0.01%	0.010%
338	20.791	2711	2715	2721	VV 3	10173	421911	0.03%	0.024%
339	20.848	2721	2723	2725	VV 2	10033	177210	0.01%	0.010%
340	20.884	2725	2728	2730	VV 2	10286	187446	0.01%	0.011%
341	20.927	2730	2734	2736	VV	10515	265523	0.02%	0.015%
342	20.962	2736	2739	2746	VV 2	10170	393323	0.03%	0.023%
343	21.027	2746	2748	2750	VV 2	10367	171945	0.01%	0.010%
344	21.055	2750	2752	2755	VV	10366	209225	0.02%	0.012%
345	21.098	2755	2758	2761	VV	9954	261095	0.02%	0.015%
346	21.134	2761	2763	2766	VV 2	10083	218247	0.02%	0.013%
347	21.170	2766	2768	2770	VV	10048	152341	0.01%	0.009%
348	21.198	2770	2772	2778	VV 2	10209	322802	0.02%	0.019%
349	21.256	2778	2780	2781	VV	10218	133511	0.01%	0.008%
350	21.284	2781	2784	2789	VV 2	10638	319302	0.02%	0.018%
351	21.377	2789	2797	2807	VV 2	10294	780284	0.06%	0.045%
352	21.463	2807	2809	2810	VV	10107	116836	0.01%	0.007%
353	21.484	2810	2812	2815	VV 2	9927	187865	0.01%	0.011%
354	21.520	2815	2817	2822	VV 2	9787	308193	0.02%	0.018%
355	21.570	2822	2824	2831	VV	10383	386518	0.03%	0.022%
356	21.635	2831	2833	2835	VV 2	9947	163105	0.01%	0.009%
357	21.742	2835	2848	2855	VV 4	13153	913704	0.07%	0.053%
358	21.820	2855	2859	2860	VV 2	10635	224595	0.02%	0.013%
359	21.856	2860	2864	2865	VV 2	10579	223836	0.02%	0.013%
360	21.899	2865	2870	2872	VV 3	10179	259939	0.02%	0.015%
361	21.928	2872	2874	2876	VV	10726	200047	0.01%	0.012%
362	21.956	2876	2878	2881	VV 2	10517	190401	0.01%	0.011%
363	21.992	2881	2883	2886	VV 2	10705	207113	0.01%	0.012%
364	22.035	2886	2889	2893	VV 3	10831	320880	0.02%	0.018%
365	22.099	2893	2898	2900	VV 2	11658	283084	0.02%	0.016%
366	22.121	2900	2901	2904	VV 2	10526	170344	0.01%	0.010%
367	22.149	2904	2905	2909	VV	11086	238825	0.02%	0.014%
368	22.192	2909	2911	2917	VV	10358	312930	0.02%	0.018%
369	22.249	2917	2919	2925	VV 3	11179	368130	0.03%	0.021%
370	22.321	2925	2929	2930	VV 2	10501	232320	0.02%	0.013%
371	22.350	2930	2933	2936	VV	11312	241140	0.02%	0.014%
372	22.378	2936	2937	2939	VV	11128	152730	0.01%	0.009%
373	22.407	2939	2941	2943	VV	10309	175886	0.01%	0.010%
374	22.435	2943	2945	2947	VV	10218	146176	0.01%	0.008%
375	22.478	2947	2951	2954	VV 2	10797	336779	0.02%	0.019%
376	22.528	2954	2958	2961	VV 2	10547	297084	0.02%	0.017%

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

377	22.578	2961	2965	2967	VV		10713	255833	0.02%	0.015%
378	22.614	2967	2970	2973	VV	2	10950	275110	0.02%	0.016%
379	22.657	2973	2976	2982	VV	2	11052	399061	0.03%	0.023%
380	22.707	2982	2983	2986	VV		14619	207380	0.02%	0.012%
381	22.743	2986	2988	2991	VV	2	10992	225285	0.02%	0.013%
382	22.786	2991	2994	2996	VV	2	10677	221347	0.02%	0.013%
383	22.821	2996	2999	3002	VV		10809	248747	0.02%	0.014%
384	22.850	3002	3003	3006	VV		10829	184552	0.01%	0.011%
385	22.900	3006	3010	3018	VV	2	11232	566248	0.04%	0.033%
386	22.972	3018	3020	3022	VV		10837	148745	0.01%	0.009%
387	22.993	3022	3023	3025	VV		11239	159382	0.01%	0.009%
388	23.022	3025	3027	3030	VV	2	11228	215300	0.02%	0.012%
389	23.057	3030	3032	3041	VV	2	10805	523345	0.04%	0.030%
390	23.129	3041	3042	3054	VV	2	11071	595504	0.04%	0.034%
391	23.229	3054	3056	3057	VV		10973	144898	0.01%	0.008%
392	23.250	3057	3059	3065	VV		11217	378861	0.03%	0.022%
393	23.308	3065	3067	3069	VV	2	10894	186247	0.01%	0.011%
394	23.343	3069	3072	3076	VV	2	10822	288949	0.02%	0.017%
395	23.386	3076	3078	3080	VV	2	11285	201475	0.01%	0.012%
396	23.415	3080	3082	3087	VV	2	11183	311506	0.02%	0.018%
397	23.465	3087	3089	3092	VV		11429	220412	0.02%	0.013%
398	23.508	3092	3095	3098	VV	2	11044	305318	0.02%	0.018%
399	23.544	3098	3100	3111	VV	4	11329	605304	0.04%	0.035%
400	23.637	3111	3113	3125	VV	3	11057	607992	0.04%	0.035%
401	23.737	3125	3127	3128	VV	2	11005	174768	0.01%	0.010%
402	23.801	3128	3136	3139	VV		16631	527215	0.04%	0.030%
403	23.851	3139	3143	3150	VV	3	11950	502193	0.04%	0.029%
404	23.915	3150	3152	3159	VV	2	11782	463065	0.03%	0.027%
405	24.008	3159	3165	3166	VV	2	11978	335137	0.02%	0.019%
406	24.030	3166	3168	3174	VV	3	11879	381436	0.03%	0.022%
407	24.151	3174	3185	3188	VV	2	11668	670859	0.05%	0.039%
408	24.194	3188	3191	3192	VV		11283	169669	0.01%	0.010%
409	24.216	3192	3194	3196	VV		11613	181587	0.01%	0.010%
410	24.244	3196	3198	3199	VV		11721	153240	0.01%	0.009%
411	24.266	3199	3201	3203	VV	2	12110	183972	0.01%	0.011%
412	24.287	3203	3204	3210	VV		11263	376176	0.03%	0.022%
413	24.344	3210	3212	3214	VV	2	11751	155383	0.01%	0.009%
414	24.373	3214	3216	3222	VV	2	11927	398108	0.03%	0.023%
415	24.437	3222	3225	3228	VV		12038	304162	0.02%	0.017%
416	24.473	3228	3230	3233	VV	2	11727	254085	0.02%	0.015%
417	24.523	3233	3237	3239	VV	3	13214	283961	0.02%	0.016%
418	24.552	3239	3241	3244	VV	2	12578	227747	0.02%	0.013%
419	24.595	3244	3247	3249	VV		12377	258498	0.02%	0.015%
420	24.638	3249	3253	3267	VV	4	11834	932768	0.07%	0.054%
421	24.752	3267	3269	3271	VV		11801	163166	0.01%	0.009%
422	24.809	3271	3277	3281	VBA	3	12511	508560	0.04%	0.029%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

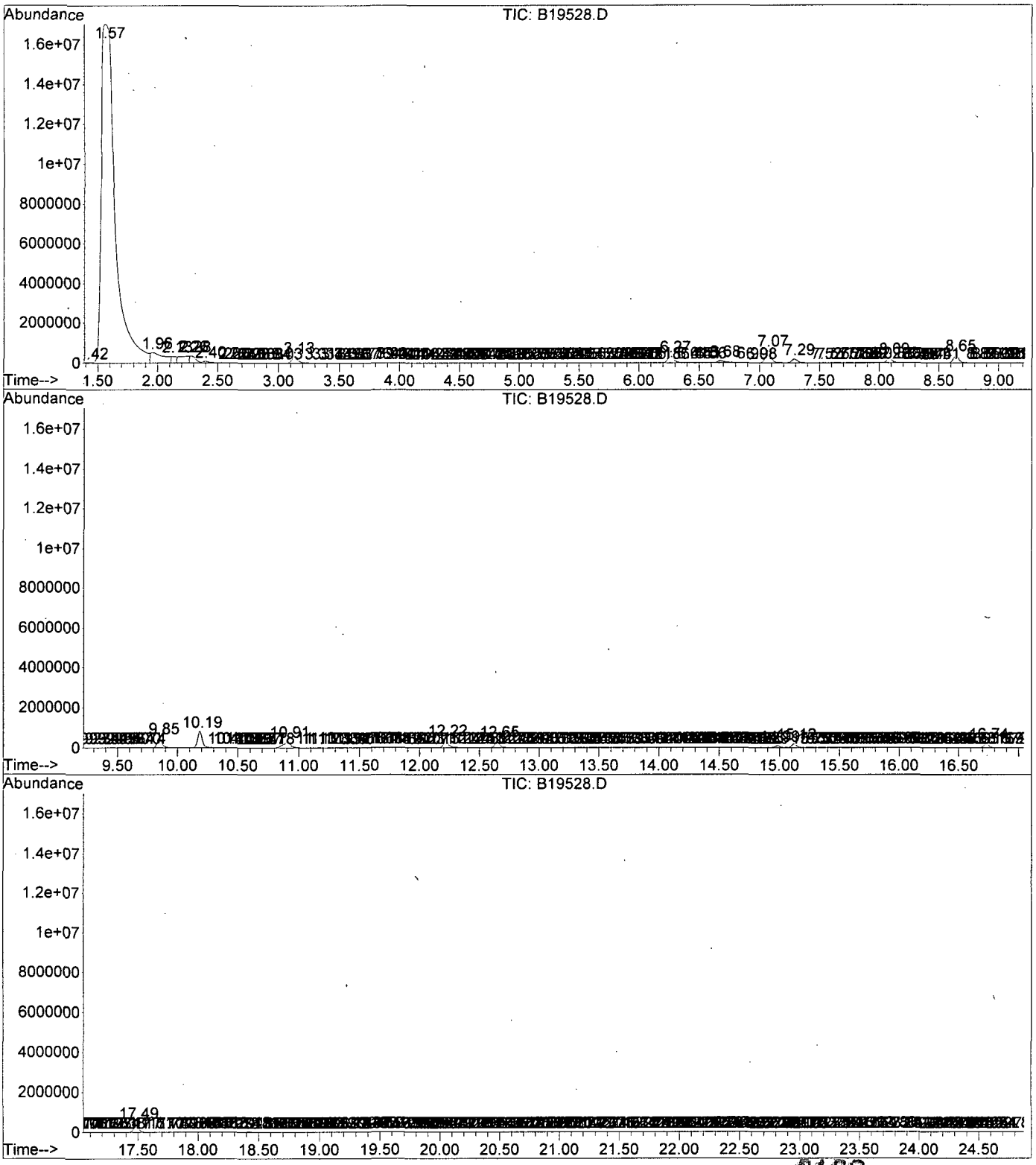
Sum of corrected areas: 1738955816

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



0198

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

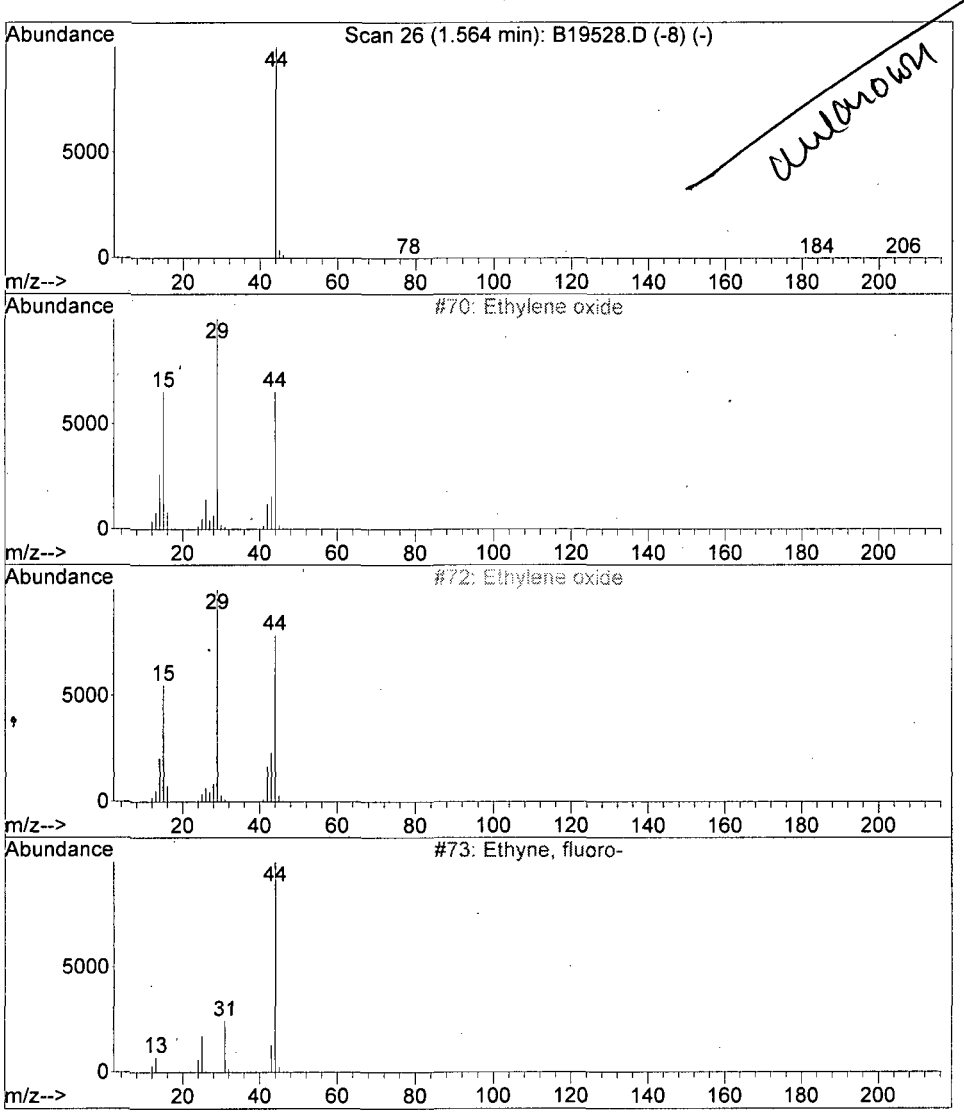
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.57	907.15 ug/L	1382470000	1,4-Difluorobenzene	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3



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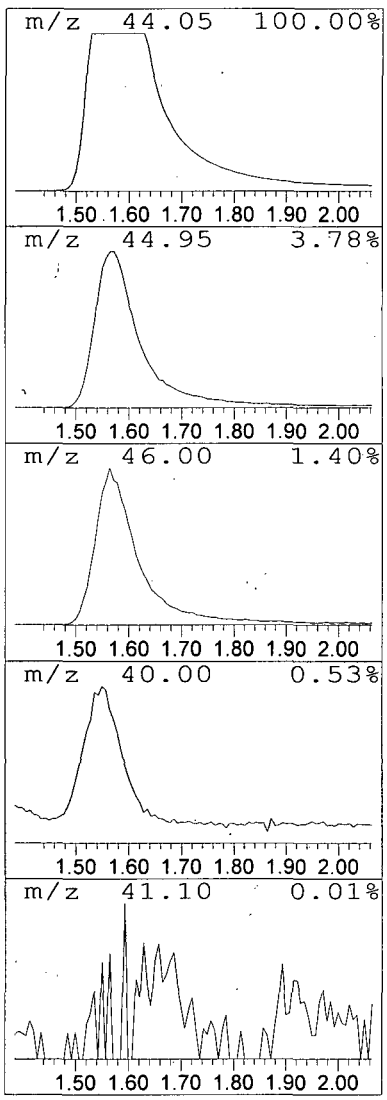


Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

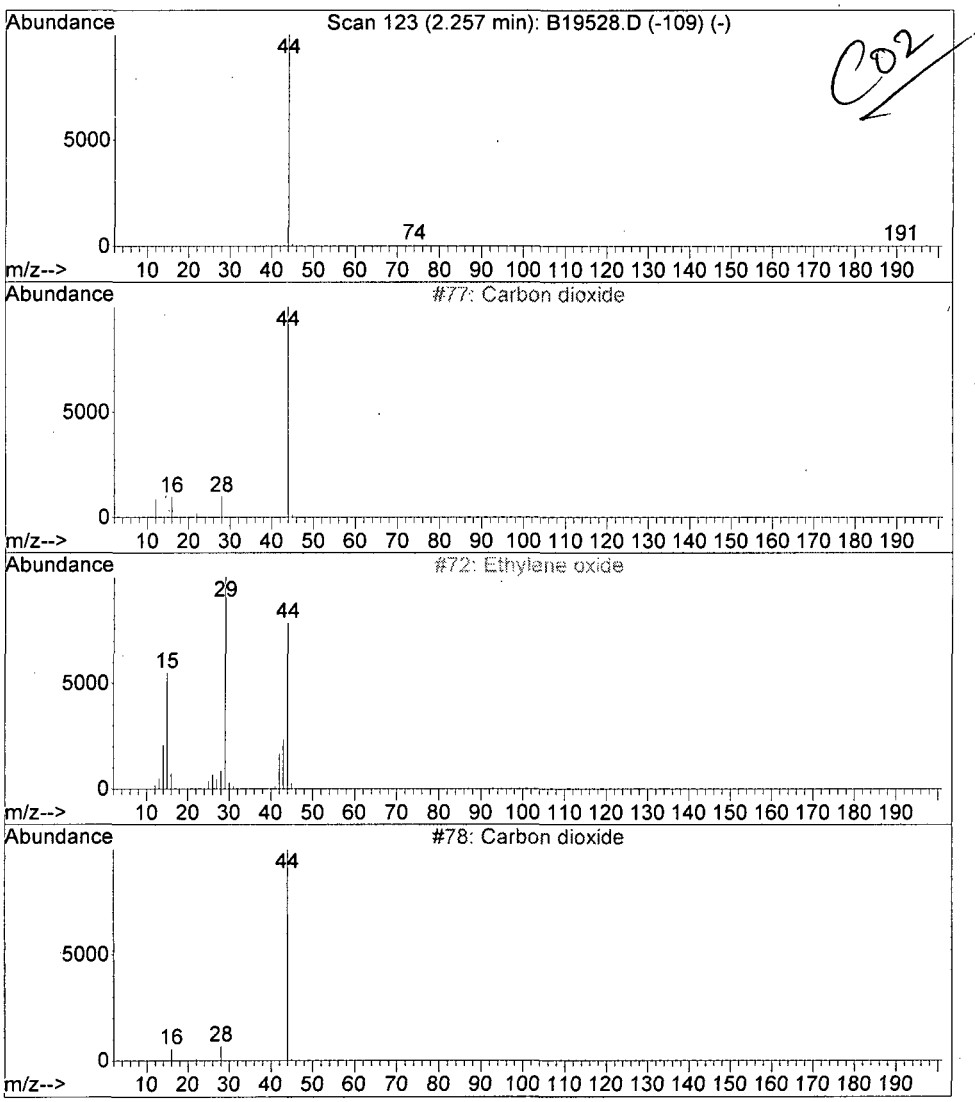
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

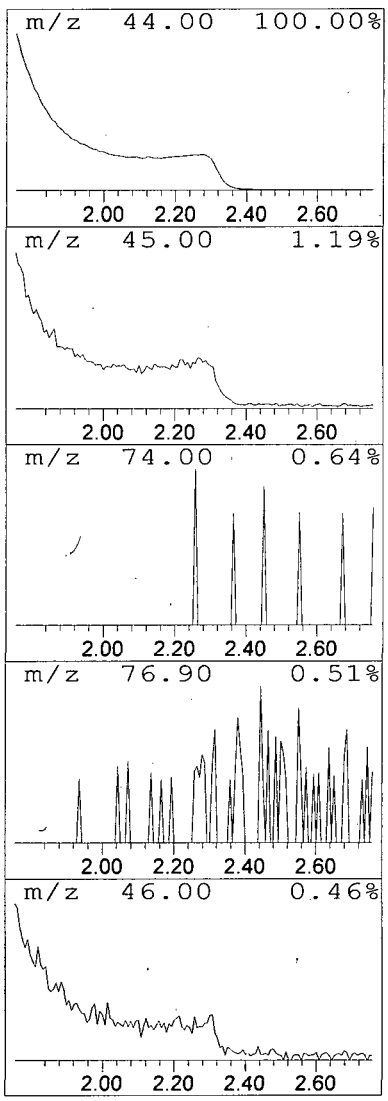
****

Peak Number 2 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.26	13.38 ug/L	20386900	1,4-Difluorobenzene	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Carbon dioxide	44	CO2	000124-38-9	3
4	1,2-Propanediamine	74	C3H10N2	000078-90-0	3
5	1,2-Propanediamine	74	C3H10N2	000078-90-0	3





0200

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

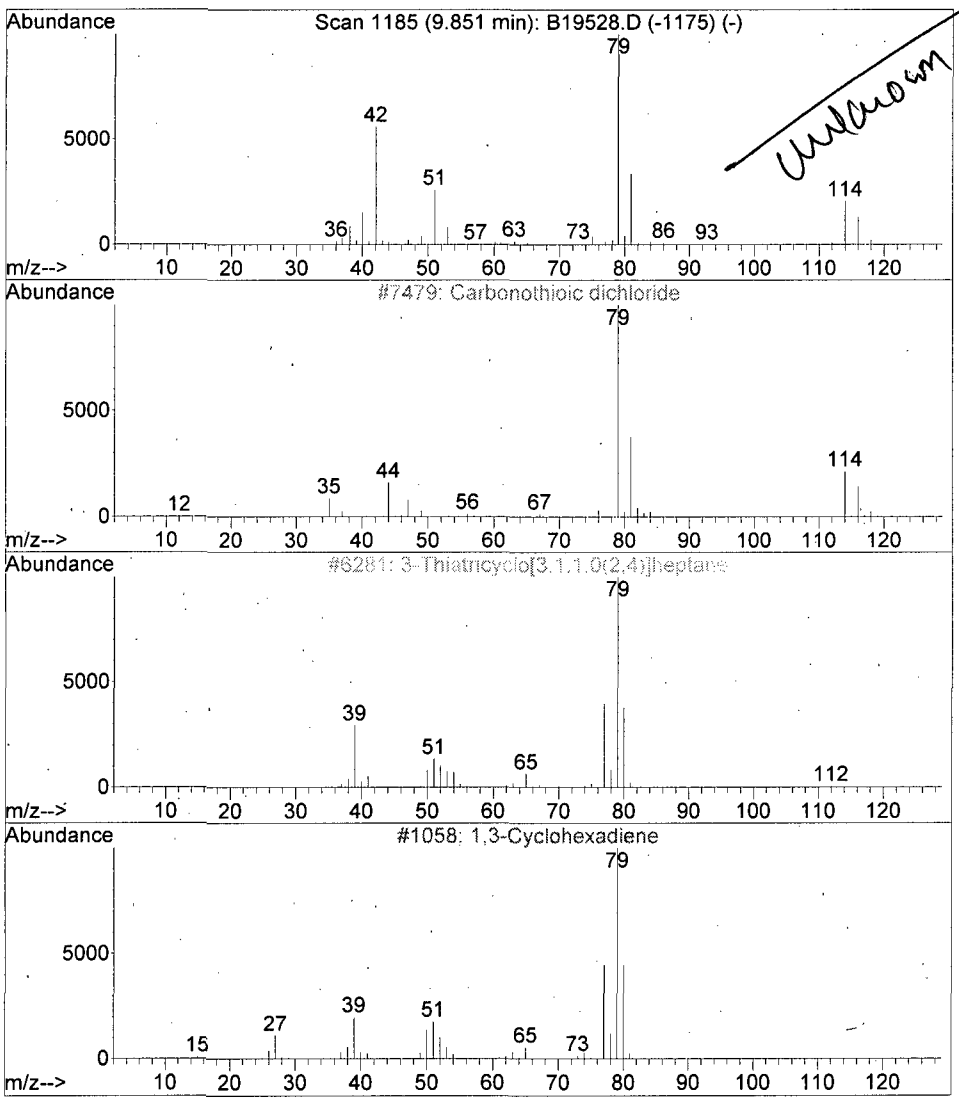
11/28/08

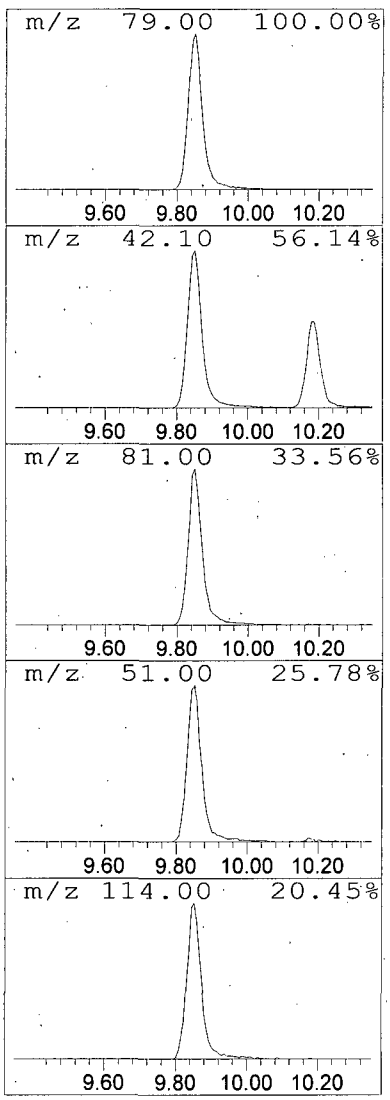
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	9.73 ug/L	14823600	1,4-Difluorobenzene	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	32
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23





0201

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19528.D
Acq On : 11/26/08 16:56 Operator: SB
Sample : F2XF0 Inst : B-5973
Misc : S-2066.06 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.57	907.2	ug/L	1382470000	1	8.09	7619830	5.0
Carbon dioxide	2.26	13.4	ug/L	20386900	1	8.09	7619830	5.0
Carbonothioic dic...	9.85	9.7	ug/L	14823600	1	8.09	7619830	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.07

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19521

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	1.6	
156-59-2	cis-1,2-Dichloroethene	3.9	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.42	J

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.07

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19521

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	1.2	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.3	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.07

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19521

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	1200	JB
02		Unknown-02	4.98	19	J
03		Unknown-03	9.84	8.8	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 28 14:41:47 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration

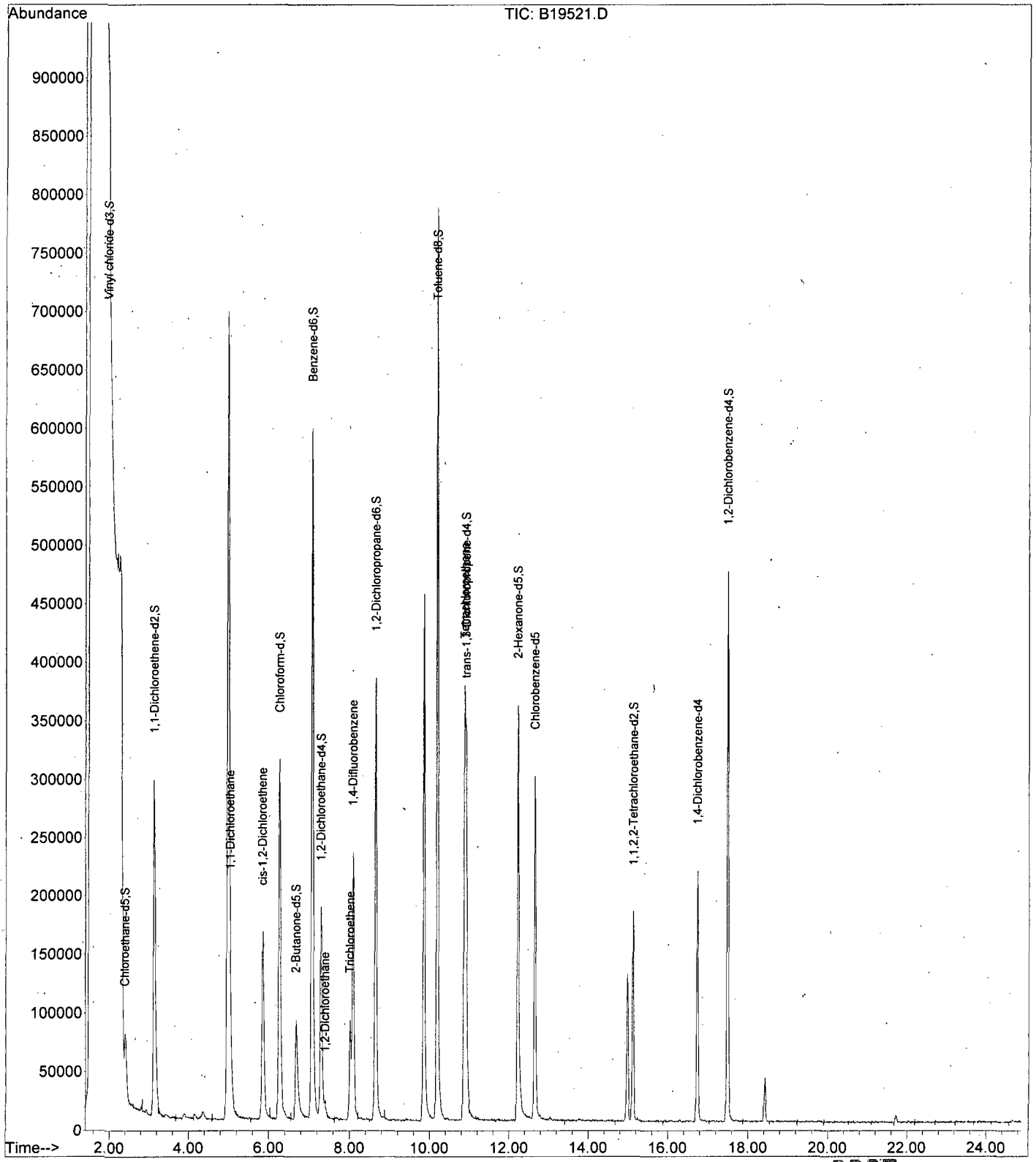
11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.08	114	2743413	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	2439796	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.73	152	878613	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2379376	6.10	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 122.00%			
7) Chloroethane-d5	2.40	69	1107076	6.26	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 125.20%			
10) 1,1-Dichloroethene-d2	3.13	63	3874749	4.94	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 98.80%			
21) 2-Butanone-d5	6.67	46	2251448	54.92	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 109.84%			
24) Chloroform-d	6.25	84	4399700	5.67	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 113.40%			
26) 1,2-Dichloroethane-d4	7.28	65	2174448	6.23	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 124.60%			
32) Benzene-d6	7.06	84	8764474	5.62	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 112.40%			
36) 1,2-Dichloropropane-d6	8.64	67	2593274	5.50	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 110.00%			
41) Toluene-d8	10.18	98	7533048	5.34	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 106.80%			
43) trans-1,3-Dichloropropene-	10.90	79	2278861	5.24	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 104.80%			
47) 2-Hexanone-d5	12.21	63	1579925	53.13	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 106.26%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1394577	5.35	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 107.00%			
63) 1,2-Dichlorobenzene-d4	17.48	152	1921119	5.60	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 112.00%			
Target Compounds						Qvalue
19) 1,1-Dichloroethane	5.03	63	1034862	1.62	ug/L	98
20) cis-1,2-Dichloroethene	5.84	96	1244260	3.90	ug/L	94
27) 1,2-Dichloroethane	7.39	62	144986	0.42	ug/L #	89
34) Trichloroethene	8.00	95	427732	1.18	ug/L	96
46) Tetrachloroethene	10.86	164	429021	1.34	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDChem\1\DATA\B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

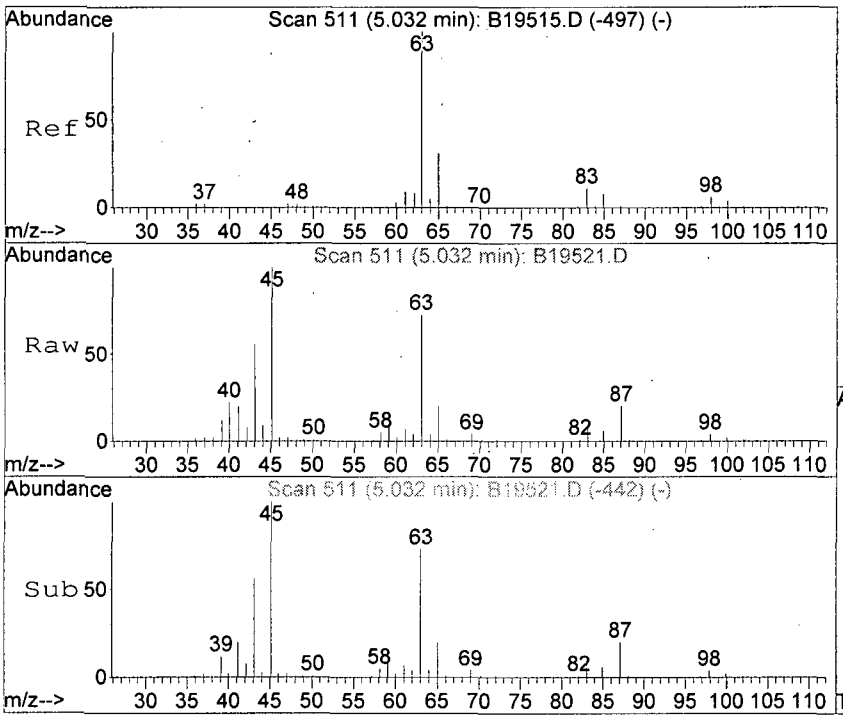
Quant Time: Nov 28 14:41:47 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration



0207

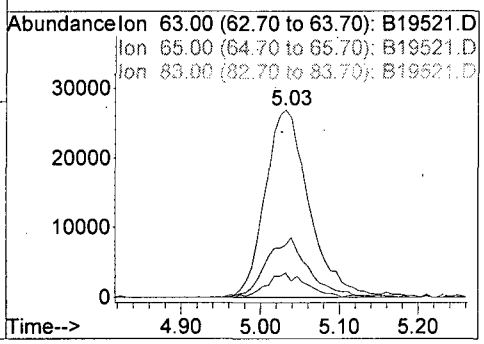
Data File : C:\MSDChem\1\DATA\B19521.D
Acq On : 11/26/08 11:50
Sample : F2XF1
Misc : S-2066.07 25ML
MS Integration Params: LSCINT.E

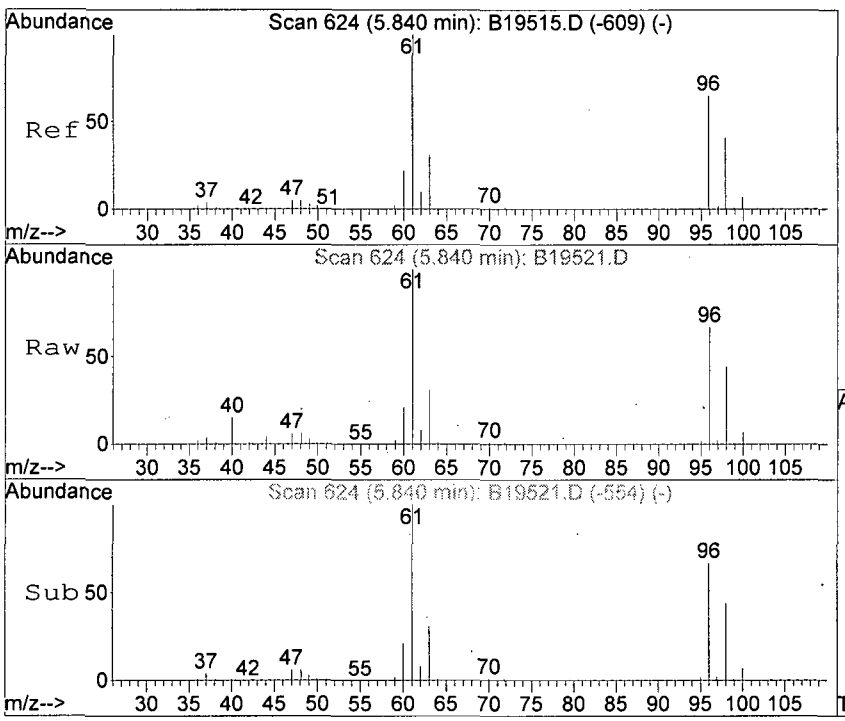
Vial: 7
Operator: SB
Inst : B-5973
Multiplr: 1.00



#19
1,1-Dichloroethane
Concen: 1.62 ug/L
RT: 5.03 min Scan# 511
Delta R.T. -0.00 min
Integration Range:
Scan=497 to 528
R.T.= 4.93 to 5.15 (min)
Tgt Ion: 63 Resp: 1034862

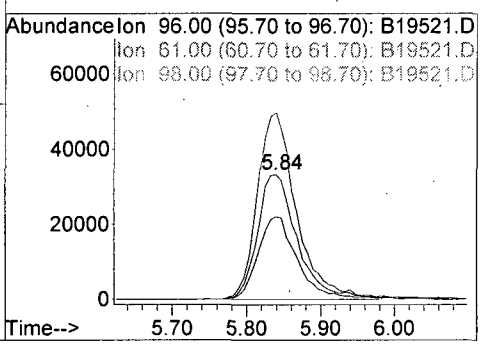
Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.0	37.6
83	11.6	9.8	14.6





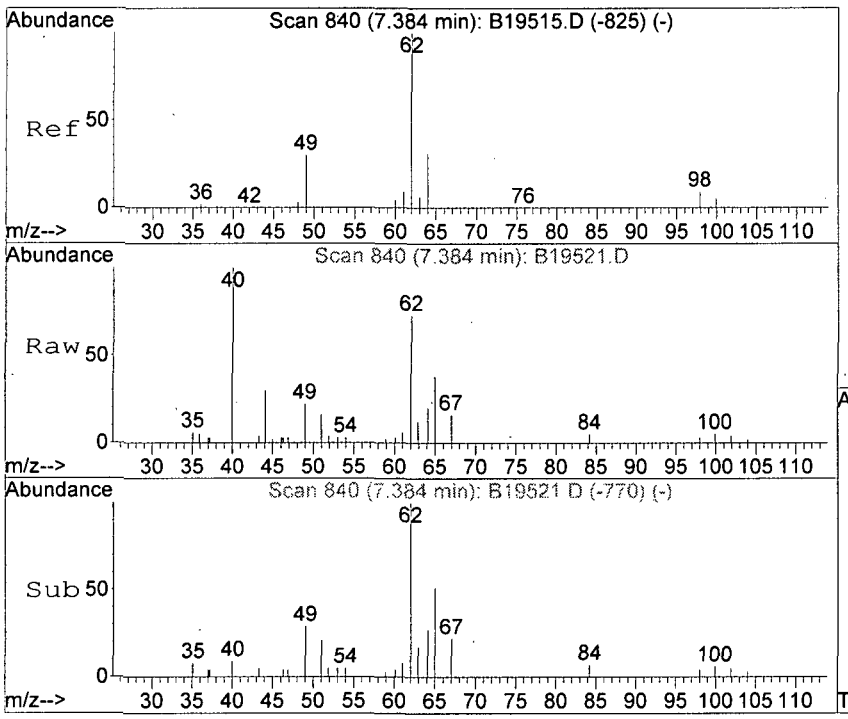
#20
cis-1,2-Dichloroethene
Concen: 3.90 ug/L
RT: 5.84 min Scan# 624
Delta R.T. 0.00 min
Integration Range:
Scan=610 to 644
R.T.= 5.74 to 5.98 (min)
Tgt Ion: 96 Resp: 1244260

Ion	Ratio	Lower	Upper
96	100		
61	146.9	110.2	165.4
98	65.3	51.4	77.0



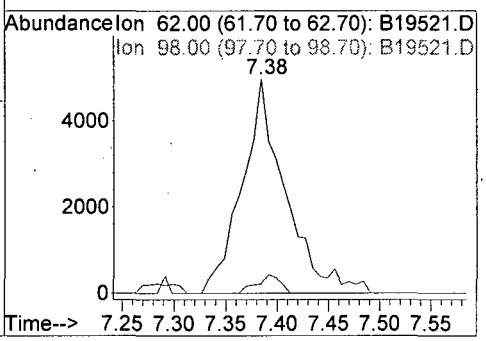
Data File : C:\MSDChem\1\DATA\B19521.D
Acq On : 11/26/08 11:50
Sample : F2XF1
Misc : S-2066.07 25ML
MS Integration Params: LSCINT.E

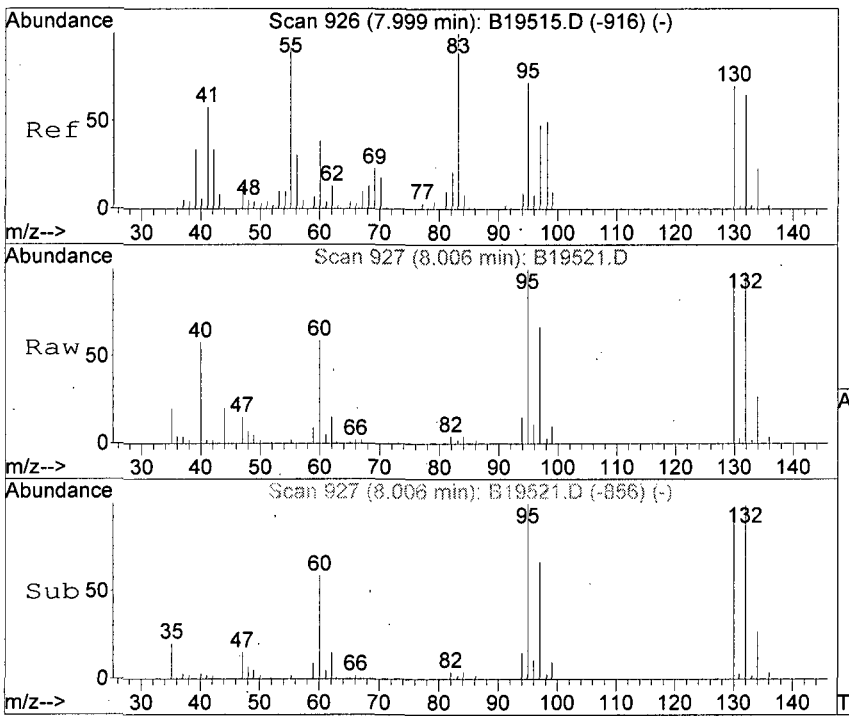
Vial: 7
Operator: SB
Inst : B-5973
Multiplr: 1.00



#27
1,2-Dichloroethane
Concen: 0.42 ug/L
RT: 7.39 min Scan# 840
Delta R.T. 0.00 min
Integration Range:
Scan=832 to 856
R.T.= 7.33 to 7.50 (min)
Tgt Ion: 62 Resp: 144986

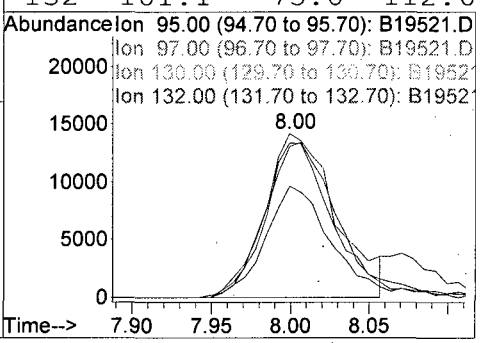
Ion	Ratio	Lower	Upper
62	100		
98	4.6	7.0	10.4#





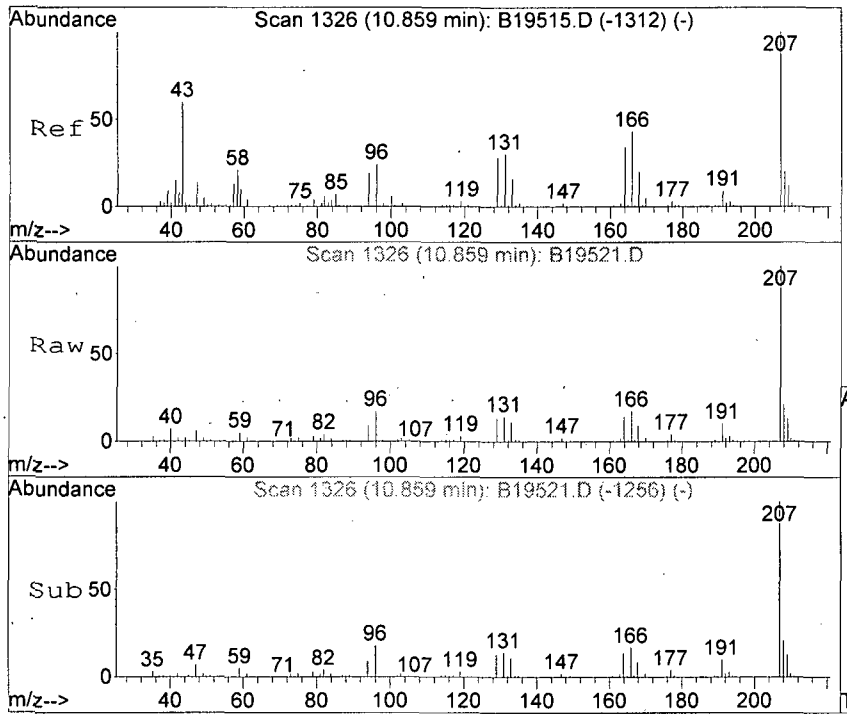
#34
Trichloroethene
Concen: 1.18 ug/L
RT: 8.00 min Scan# 927
Delta R.T. 0.00 min
Integration Range:
Scan=918 to 934
R.T.= 7.94 to 8.06 (min)
Tgt Ion: 95 Resp: 427732

Ion	Ratio	Lower	Upper
95	100		
97	67.2	51.2	76.8
130	96.3	77.5	116.3
132	101.1	75.0	112.6



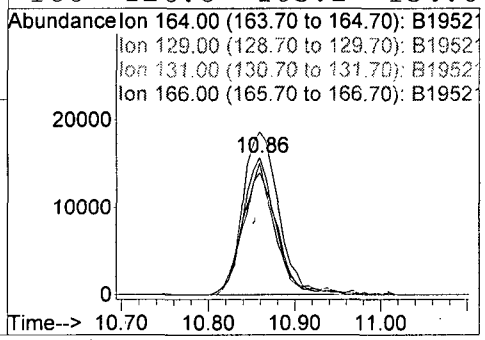
Data File : C:\MSDChem\1\DATA\B19521.D
Acq On : 11/26/08 11:50
Sample : F2XF1
Misc : S-2066.07 25ML
MS Integration Params: LSCINT.E

Vial: 7
Operator: SB
Inst : B-5973
Multiplr: 1.00



#46
Tetrachloroethene
Concen: 1.34 ug/L
RT: 10.86 min Scan# 1326
Delta R.T. 0.00 min
Integration Range:
Scan=1317 to 1346
R.T.= 10.79 to 11.00 (min)
Tgt Ion:164 Resp: 429021

Ion	Ratio	Lower	Upper
164	100		
129	89.1	71.8	107.8
131	88.6	68.6	103.0
166	126.8	103.2	154.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.557	3	25	79	PV	17074195	1847388578	100.00%	88.050%
2	2.200	113	115	120	VV	107599	3309031	0.18%	0.158%
3	2.257	120	123	138	VV	215747	11001122	0.60%	0.524%
4	2.393	138	142	156	PV 2	29668	764364	0.04%	0.036%
5	2.508	156	158	162	PV 5	1800	24813	0.00%	0.001%
6	2.558	162	165	167	VV 4	2523	31410	0.00%	0.001%
7	2.579	167	168	170	VV 2	1876	19577	0.00%	0.001%
8	2.601	170	171	173	VV 2	3294	21083	0.00%	0.001%
9	2.629	173	175	177	PV 2	1401	12856	0.00%	0.001%
10	2.665	177	180	185	VV 6	1731	25488	0.00%	0.001%
11	2.729	185	189	191	VV 4	1895	29994	0.00%	0.001%
12	2.758	191	193	196	PV 3	1783	23561	0.00%	0.001%
13	2.801	196	199	201	VV 3	4256	56224	0.00%	0.003%
14	2.822	201	202	206	VV	9409	65924	0.00%	0.003%
15	2.865	206	208	214	VV 2	1885	51310	0.00%	0.002%
16	2.929	214	217	225	VV 4	3933	90480	0.00%	0.004%
17	3.008	225	228	230	VV 3	911	11193	0.00%	0.001%
18	3.030	230	231	234	VV 2	1113	9893	0.00%	0.000%
19	3.123	234	244	271	PV	281980	10551018	0.57%	0.503%
20	3.323	271	272	274	VV	2851	23318	0.00%	0.001%
21	3.358	274	277	280	VV 2	2254	25553	0.00%	0.001%
22	3.394	280	282	284	VV 2	2346	21780	0.00%	0.001%
23	3.437	284	288	293	VV 6	3324	100467	0.01%	0.005%
24	3.480	293	294	301	VV 3	2024	40852	0.00%	0.002%
25	3.559	301	305	307	PV 2	955	11733	0.00%	0.001%
26	3.587	307	309	311	VV	1729	17878	0.00%	0.001%
27	3.616	311	313	316	VV 3	1793	21542	0.00%	0.001%
28	3.644	316	317	319	VV 2	1824	11906	0.00%	0.001%
29	3.687	319	323	327	VV 2	3072	29939	0.00%	0.001%
30	3.730	327	329	333	VV 3	1207	19457	0.00%	0.001%
31	3.780	333	336	338	VV 2	1537	24768	0.00%	0.001%
32	3.809	338	340	342	VV 2	1652	15085	0.00%	0.001%
33	3.895	342	352	364	PV 6	5194	258192	0.01%	0.012%
34	4.002	364	367	370	VV	2409	49601	0.00%	0.002%
35	4.031	370	371	373	VV	1482	17444	0.00%	0.001%
36	4.052	373	374	378	VV 3	1935	25808	0.00%	0.001%
37	4.095	378	380	386	VV 2	2414	60141	0.00%	0.003%
38	4.152	386	388	400	VV 5	4919	169370	0.01%	0.008%
39	4.359	400	417	441	VV 6	7060	446359	0.02%	0.021%
40	4.553	441	444	469	VV	1263	109863	0.01%	0.005%
41	4.760	469	473	476	PV	862	17079	0.00%	0.001%
42	4.796	476	478	480	VV 3	784	10940	0.00%	0.001%
43	4.824	480	482	484	VV 3	943	8226	0.00%	0.000%
44	4.974	484	503	551	VV	686492	29067370	1.57%	1.385%

0211

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	5.332	551	553	562	VV 3	3121	97467	0.01%	0.005%
46	5.418	562	565	569	VV 2	1671	45844	0.00%	0.002%
47	5.461	569	571	574	VV 2	2092	28619	0.00%	0.001%
48	5.511	574	578	586	VV 2	2609	60259	0.00%	0.003%
49	5.582	586	588	592	VV 2	1791	29902	0.00%	0.001%
50	5.625	592	594	596	VV	1308	18446	0.00%	0.001%
51	5.654	596	598	601	VV 2	1423	27663	0.00%	0.001%
52	5.697	601	604	608	VV 3	1260	29159	0.00%	0.001%
53	5.840	608	624	654	VV 3	157590	6281404	0.34%	0.299%
54	6.076	654	657	663	VV 4	2230	73284	0.00%	0.003%
55	6.133	663	665	669	VV 2	2653	39184	0.00%	0.002%
56	6.254	669	682	712	VV	307897	11346171	0.61%	0.541%
57	6.497	712	716	730	VV 2	3635	180532	0.01%	0.009%
58	6.669	730	740	767	VV	85079	3981470	0.22%	0.190%
59	6.876	767	769	784	VV 5	5552	281035	0.02%	0.013%
60	7.062	784	795	817	VV	590784	19661366	1.06%	0.937%
61	7.284	817	826	838	VV	181983	6371078	0.34%	0.304%
62	7.384	838	840	867	VV 4	18340	763352	0.04%	0.036%
63	7.591	867	869	878	VV 3	2423	99047	0.01%	0.005%
64	7.670	878	880	903	VV 6	3484	204470	0.01%	0.010%
65	7.849	903	905	917	VV 3	1985	89412	0.00%	0.004%
66	8.006	917	927	931	VV 3	85857	2321672	0.13%	0.111%
67	8.078	931	937	964	VV	227565	7665700	0.41%	0.365%
68	8.285	964	966	973	VV 4	3853	94851	0.01%	0.005%
69	8.435	973	987	996	VV 4	3034	174577	0.01%	0.008%
70	8.514	996	998	1002	VV	1665	35968	0.00%	0.002%
71	8.635	1002	1015	1046	VV	377646	12273405	0.66%	0.585%
72	8.864	1046	1047	1051	VV	8080	98299	0.01%	0.005%
73	8.907	1051	1053	1065	VV 4	3216	111716	0.01%	0.005%
74	9.014	1065	1068	1071	VV	1964	32295	0.00%	0.002%
75	9.086	1071	1078	1081	VV 3	2001	72840	0.00%	0.003%
76	9.129	1081	1084	1087	VV 2	2386	43018	0.00%	0.002%
77	9.179	1087	1091	1096	VV 3	2229	65492	0.00%	0.003%
78	9.236	1096	1099	1106	VV 3	2232	76792	0.00%	0.004%
79	9.350	1106	1115	1119	VV 2	2347	85802	0.00%	0.004%
80	9.415	1119	1124	1142	VV 3	3360	189920	0.01%	0.009%
81	9.565	1142	1145	1154	VV 3	2090	82758	0.00%	0.004%
82	9.658	1154	1158	1164	VV 2	1839	66445	0.00%	0.003%
83	9.722	1164	1167	1169	VV 3	1731	26035	0.00%	0.001%
84	9.844	1169	1184	1212	VV	448880	13457594	0.73%	0.641%
85	10.058	1212	1214	1217	VV 3	4265	79202	0.00%	0.004%
86	10.180	1217	1231	1274	VV	765013	21688663	1.17%	1.034%
87	10.530	1274	1280	1286	VV 3	2540	111280	0.01%	0.005%
88	10.587	1286	1288	1293	VV 3	2519	75389	0.00%	0.004%
89	10.645	1293	1296	1298	VV	2326	37550	0.00%	0.002%
90	10.673	1298	1300	1307	VV	2285	82684	0.00%	0.004%
91	10.866	1307	1327	1388	VV 2	370236	19616416	1.06%	0.935%

0212

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	11.345	1388	1394	1397	VV	2	3124	89675	0.00%	0.004%
93	11.381	1397	1399	1409	VV	2	3073	138880	0.01%	0.007%
94	11.474	1409	1412	1417	VV	3	2592	73821	0.00%	0.004%
95	11.560	1417	1424	1427	VV	4	3486	107682	0.01%	0.005%
96	11.739	1427	1449	1456	VV	4	3694	294934	0.02%	0.014%
97	11.824	1456	1461	1481	VV	3	3333	215822	0.01%	0.010%
98	11.996	1481	1485	1489	VV	2	2545	78248	0.00%	0.004%
99	12.060	1489	1494	1506	VV	3	3002	171115	0.01%	0.008%
100	12.210	1506	1515	1564	VV	2	352967	11660759	0.63%	0.556%
101	12.639	1564	1575	1626	VV		291177	9088652	0.49%	0.433%
102	13.033	1626	1630	1641	VV	4	6151	233104	0.01%	0.011%
103	13.140	1641	1645	1664	VV	5	3635	271850	0.01%	0.013%
104	13.304	1664	1668	1681	VV	2	3707	199912	0.01%	0.010%
105	13.483	1681	1693	1715	PV	3	3422	369140	0.02%	0.018%
106	13.655	1715	1717	1723	VV	3	2846	81231	0.00%	0.004%
107	13.762	1723	1732	1761	VV	4	3878	459977	0.02%	0.022%
108	13.991	1761	1764	1776	VV	3	2710	161086	0.01%	0.008%
109	14.198	1776	1793	1805	VV	3	3459	333248	0.02%	0.016%
110	14.327	1805	1811	1828	VV	4	3425	234546	0.01%	0.011%
111	14.470	1828	1831	1836	VV	3	2888	93420	0.01%	0.004%
112	14.527	1836	1839	1859	VV	2	3606	249561	0.01%	0.012%
113	14.706	1859	1864	1879	VV	2	2625	199012	0.01%	0.009%
114	14.835	1879	1882	1888	VV	2	3353	99583	0.01%	0.005%
115	14.978	1888	1902	1912	VV		127624	3787012	0.20%	0.180%
116	15.113	1912	1921	1951	VV		182491	5271687	0.29%	0.251%
117	15.364	1951	1956	1963	VV	3	3164	141288	0.01%	0.007%
118	15.535	1963	1980	1986	VV	2	3646	262230	0.01%	0.012%
119	15.736	1986	2008	2027	VV	2	3986	483878	0.03%	0.023%
120	15.929	2027	2035	2071	PV	4	3474	517020	0.03%	0.025%
121	16.293	2071	2086	2106	VV	3	4387	412559	0.02%	0.020%
122	16.465	2106	2110	2118	VV	3	3270	147296	0.01%	0.007%
123	16.572	2118	2125	2137	VV	3	3370	226112	0.01%	0.011%
124	16.722	2137	2146	2179	VV		213640	6141572	0.33%	0.293%
125	16.987	2179	2183	2189	VV	3	2776	104495	0.01%	0.005%
126	17.116	2189	2201	2212	VV	3	3460	285483	0.02%	0.014%
127	17.223	2212	2216	2223	VV	2	3384	124477	0.01%	0.006%
128	17.323	2223	2230	2235	VV	2	3389	150800	0.01%	0.007%
129	17.480	2235	2252	2296	VV		464531	13065464	0.71%	0.623%
130	17.881	2296	2308	2323	VV	2	3575	331931	0.02%	0.016%
131	18.016	2323	2327	2341	VV	3	2994	202049	0.01%	0.010%
132	18.167	2341	2348	2358	VV	3	2930	194452	0.01%	0.009%
133	18.267	2358	2362	2373	VV	3	2997	184472	0.01%	0.009%
134	18.417	2373	2383	2399	VV	3	39668	1281194	0.07%	0.061%
135	18.588	2399	2407	2424	VV	3	3282	273724	0.01%	0.013%
136	18.774	2424	2433	2437	VV		3526	144003	0.01%	0.007%
137	18.846	2437	2443	2447	VV	2	3303	108980	0.01%	0.005%
138	18.917	2447	2453	2468	VV	3	3271	241537	0.01%	0.012%
139	19.075	2468	2475	2484	VV	2	3214	180336	0.01%	0.009%

0213

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS. BY SOM01.2

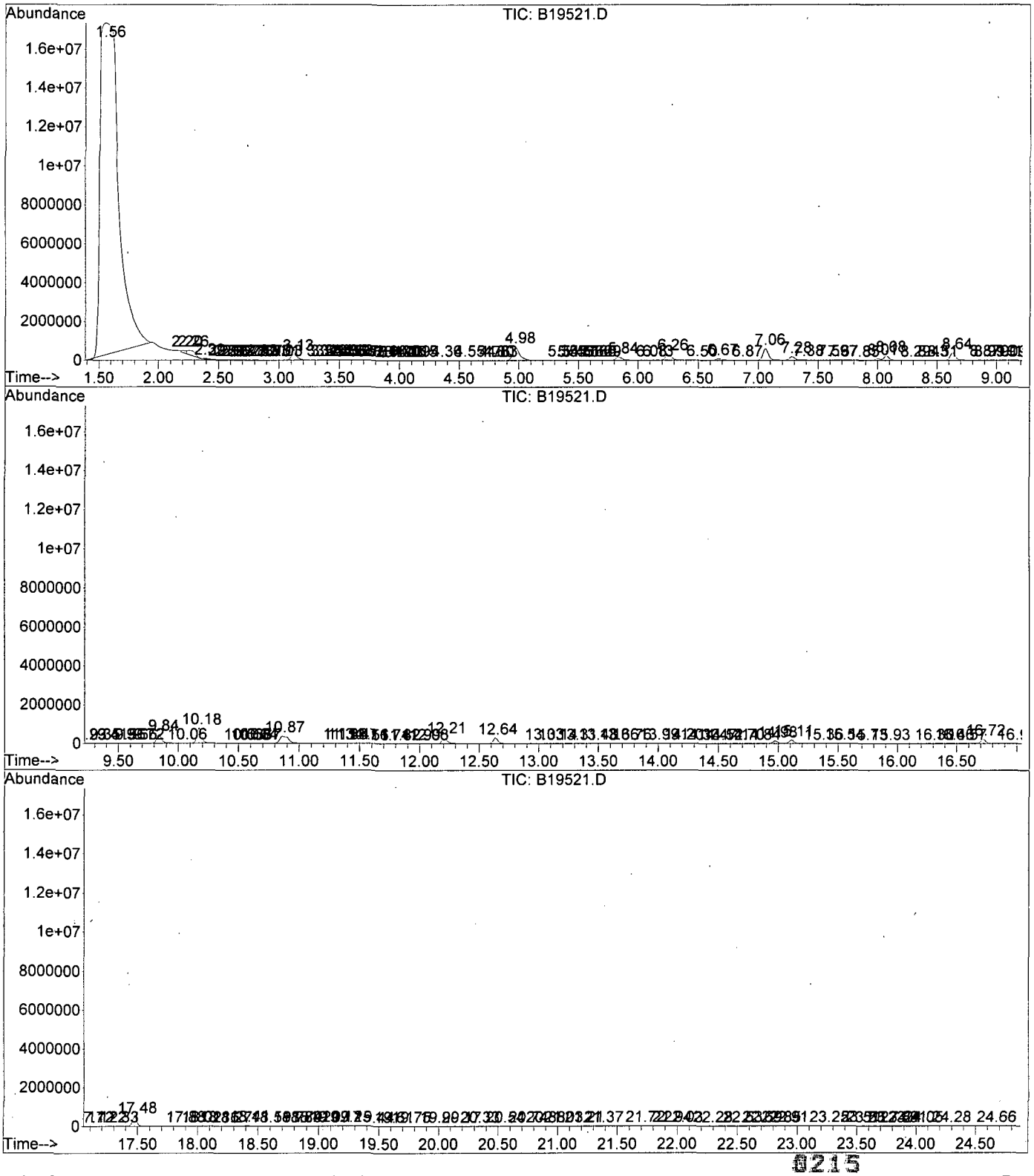
140	19.168	2484	2488	2497	VV	2	2781	127293	0.01%	0.006%
141	19.253	2497	2500	2522	PV	2	2482	262428	0.01%	0.013%
142	19.446	2522	2527	2539	VV	3	3002	173381	0.01%	0.008%
143	19.611	2539	2550	2564	VV	2	2963	263930	0.01%	0.013%
144	19.754	2564	2570	2589	VV	3	2734	264414	0.01%	0.013%
145	19.990	2589	2603	2626	VV	2	2433	350900	0.02%	0.017%
146	20.176	2626	2629	2646	VV	2	2842	197387	0.01%	0.009%
147	20.333	2646	2651	2676	VV		2630	275834	0.01%	0.013%
148	20.540	2676	2680	2700	VV	2	2555	215556	0.01%	0.010%
149	20.734	2700	2707	2721	VV	2	2464	167942	0.01%	0.008%
150	20.884	2721	2728	2739	VV	2	2411	162408	0.01%	0.008%
151	21.034	2739	2749	2768	VV	2	2418	243582	0.01%	0.012%
152	21.205	2768	2773	2782	VV	2	2762	118193	0.01%	0.006%
153	21.370	2782	2796	2837	VV	2	2789	454245	0.02%	0.022%
154	21.720	2837	2845	2864	VV	5	7836	379202	0.02%	0.018%
155	21.942	2864	2876	2882	VV	2	2245	143174	0.01%	0.007%
156	22.035	2882	2889	2904	VV	3	2459	177658	0.01%	0.008%
157	22.278	2904	2923	2947	VV	2	2675	316329	0.02%	0.015%
158	22.528	2947	2958	2970	VV	2	2371	170886	0.01%	0.008%
159	22.693	2970	2981	3000	VV	3	1931	212785	0.01%	0.010%
160	22.850	3000	3003	3007	VV	2	2239	57667	0.00%	0.003%
161	22.907	3007	3011	3053	VV	2	2371	317786	0.02%	0.015%
162	23.250	3053	3059	3092	VV	4	2275	285932	0.02%	0.014%
163	23.515	3092	3096	3100	VV	2	2172	64345	0.00%	0.003%
164	23.558	3100	3102	3110	VV		2171	68992	0.00%	0.003%
165	23.737	3110	3127	3134	VV	3	2173	159500	0.01%	0.008%
166	23.844	3134	3142	3149	VV	2	2286	122210	0.01%	0.006%
167	23.908	3149	3151	3163	VV	3	2267	108594	0.01%	0.005%
168	24.044	3163	3170	3193	VV	3	1946	196042	0.01%	0.009%
169	24.280	3193	3203	3243	VV	2	1926	344064	0.02%	0.016%
170	24.659	3243	3256	3261	PV		1863	84648	0.00%	0.004%

Sum of corrected areas: 2098124732

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

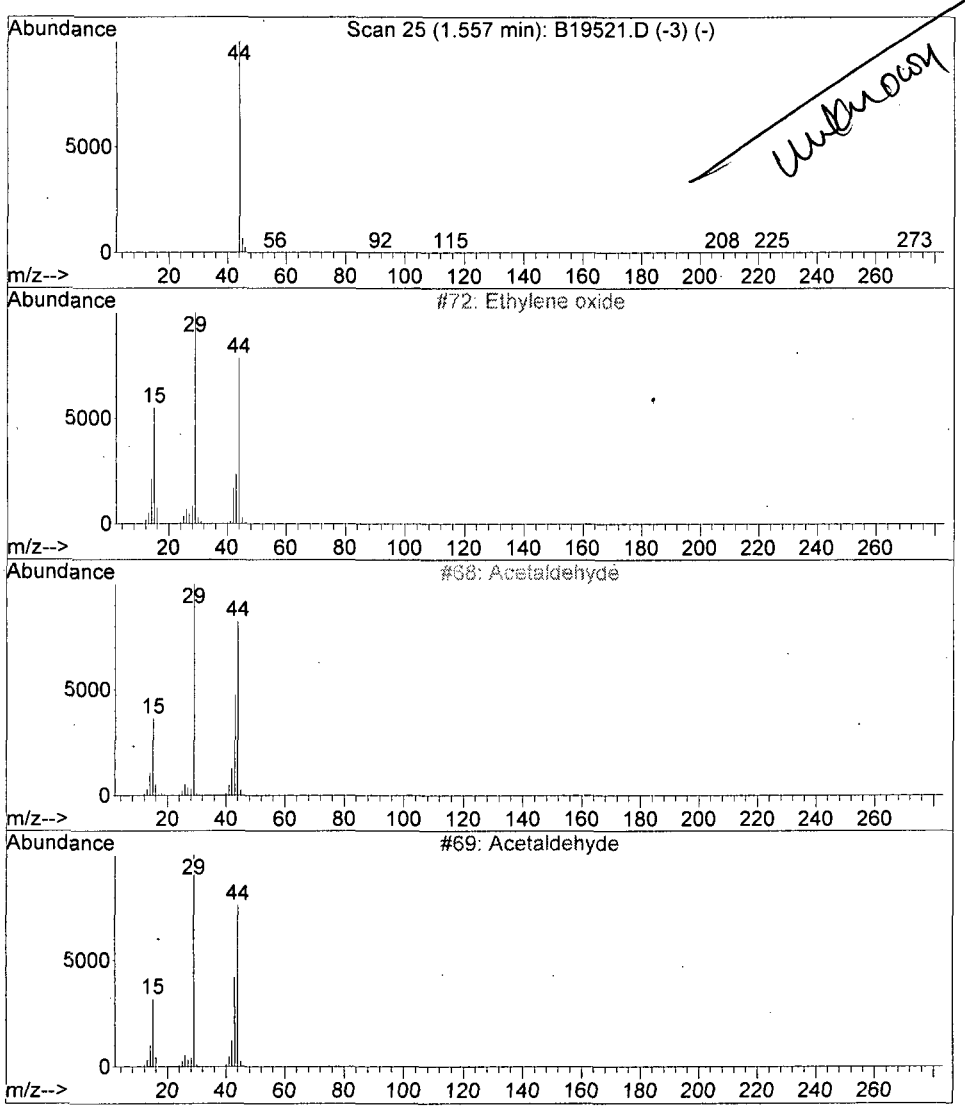
11/28/08

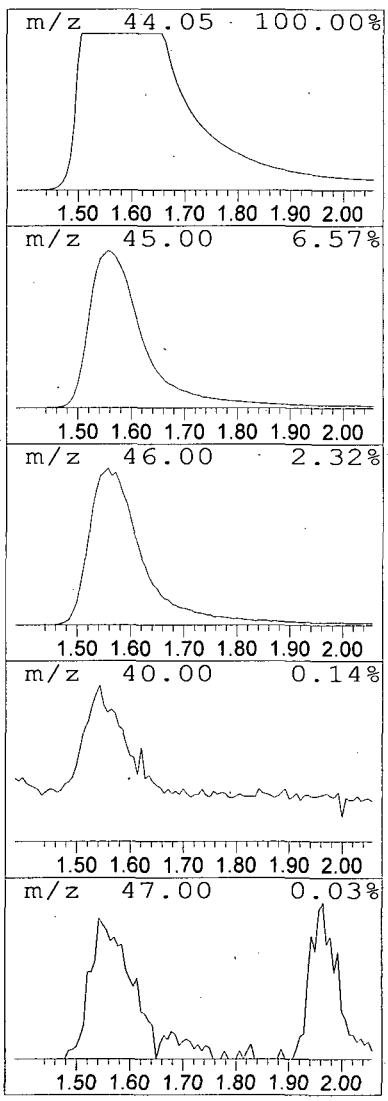
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	1204.97 ug/L	1847390000	1,4-Difluorobenzene	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	Acetaldehyde	44	C2H4O	000075-07-0	3
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Propane	44	C3H8	000074-98-6	2





0216

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

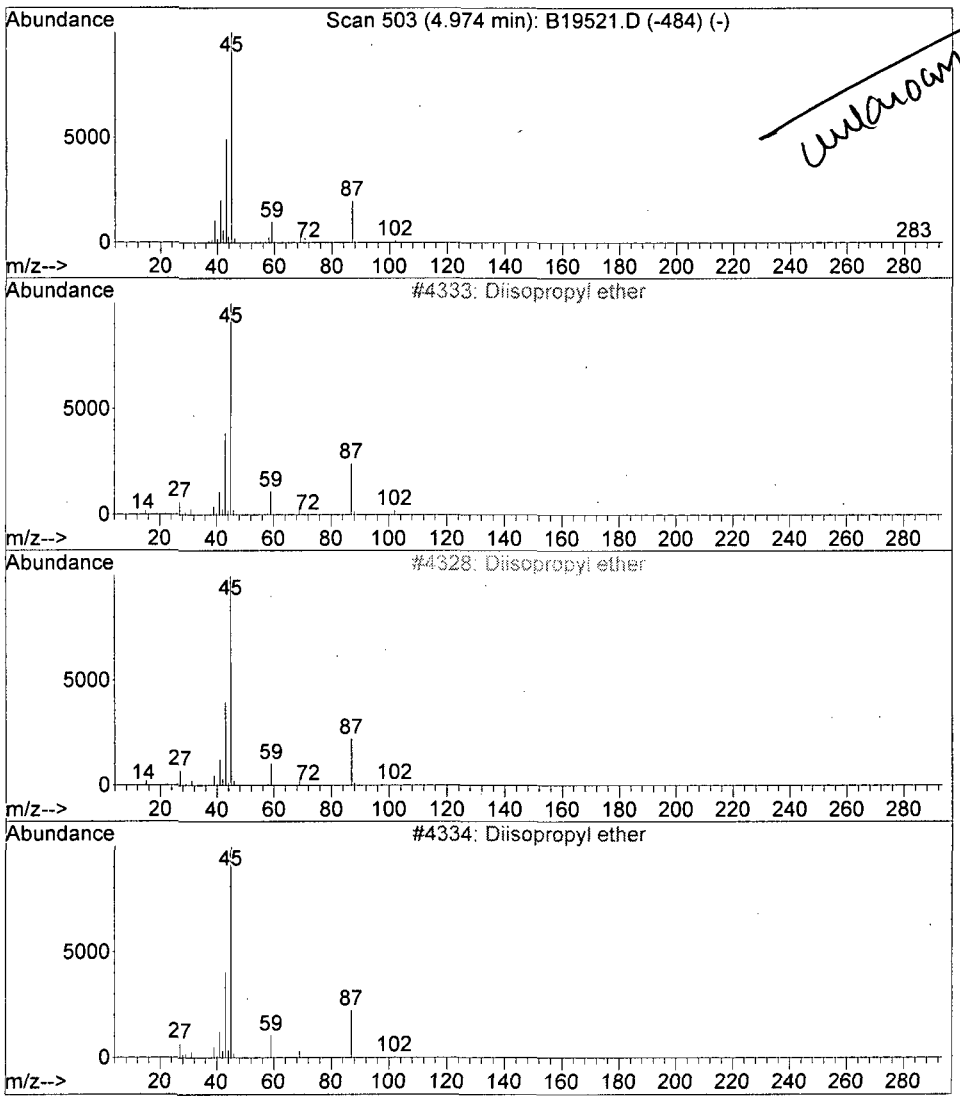
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

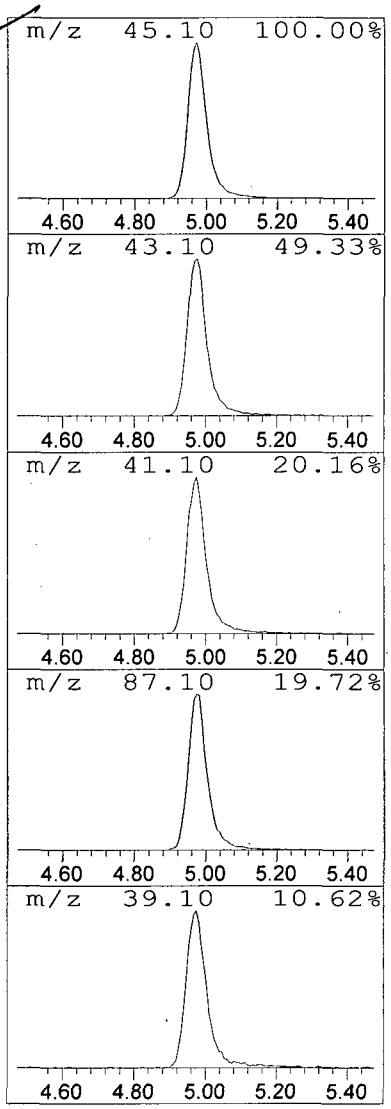
****

Peak Number 2 Diisopropyl ether Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.98	18.96 ug/L	29067400	1,4-Difluorobenzene	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diisopropyl ether	102	C6H14O	000108-20-3	83
2	Diisopropyl ether	102	C6H14O	000108-20-3	83
3	Diisopropyl ether	102	C6H14O	000108-20-3	78
4	Ether, 2-chloro-1-methylethyl is...	136	C6H13ClO	098277-76-0	78
5	1-Propanol, 2-(1-methylethoxy)-	118	C6H14O2	003944-37-4	56





0217

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

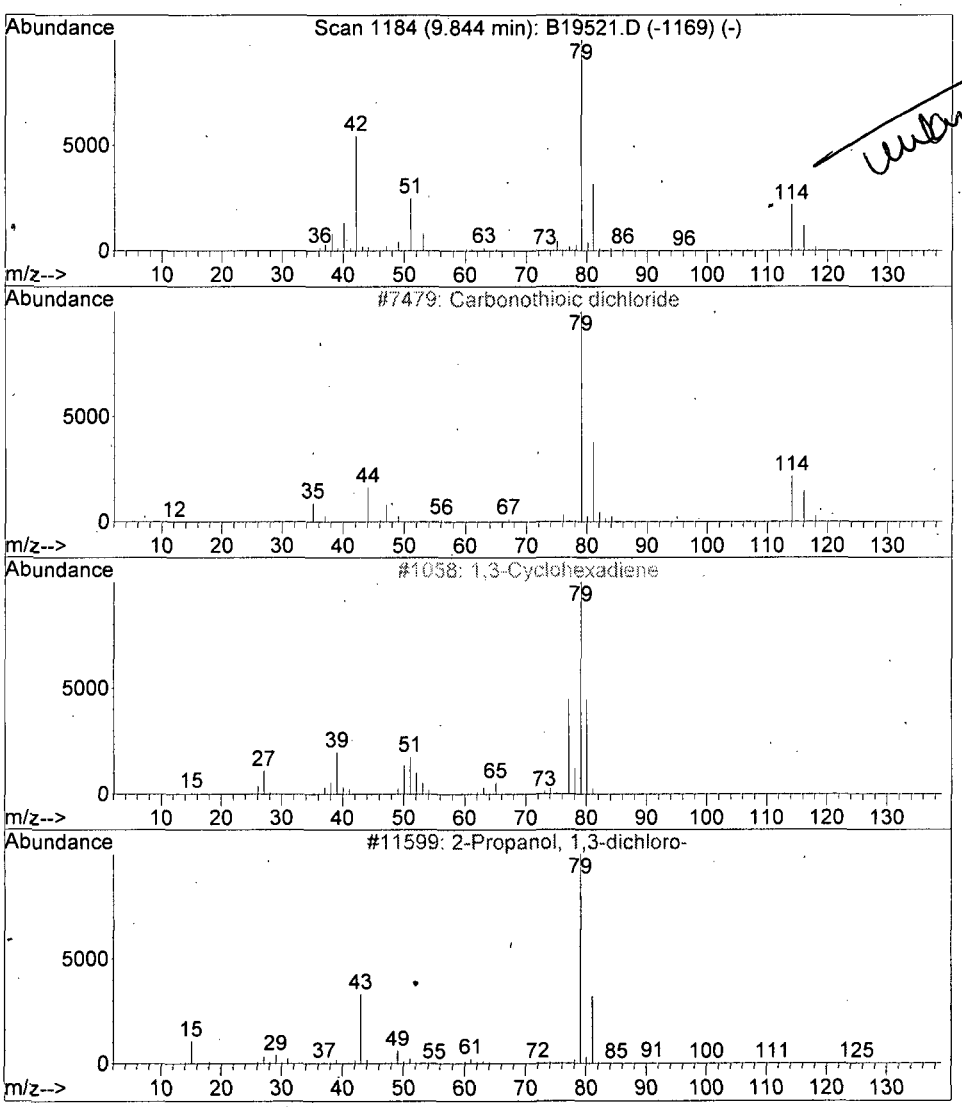
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

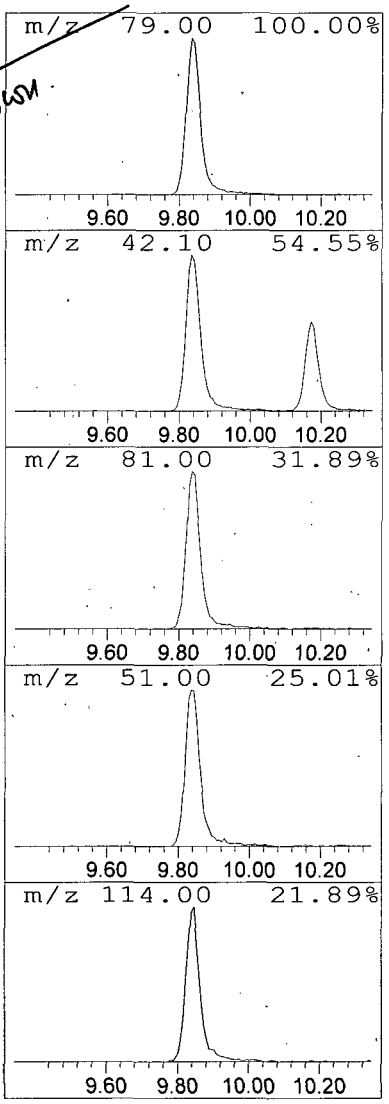
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	8.78 ug/L	13457600	1,4-Difluorobenzene	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19521.D
Acq On : 11/26/08 11:50 Operator: SB
Sample : F2XF1 Inst : B-5973
Misc : S-2066.07 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	1205.0	ug/L	1847390000	1	8.08	7665700	5.0
Diisopropyl ether	4.98	19.0	ug/L	29067400	1	8.08	7665700	5.0
Carbonothioic dic...	9.84	8.8	ug/L	13457600	1	8.08	7665700	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.08

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17047

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.08

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17047

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	29	E
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.33	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.08

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17047

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	7.3	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Data File: C:\MSDCHEM\1\DATA\A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

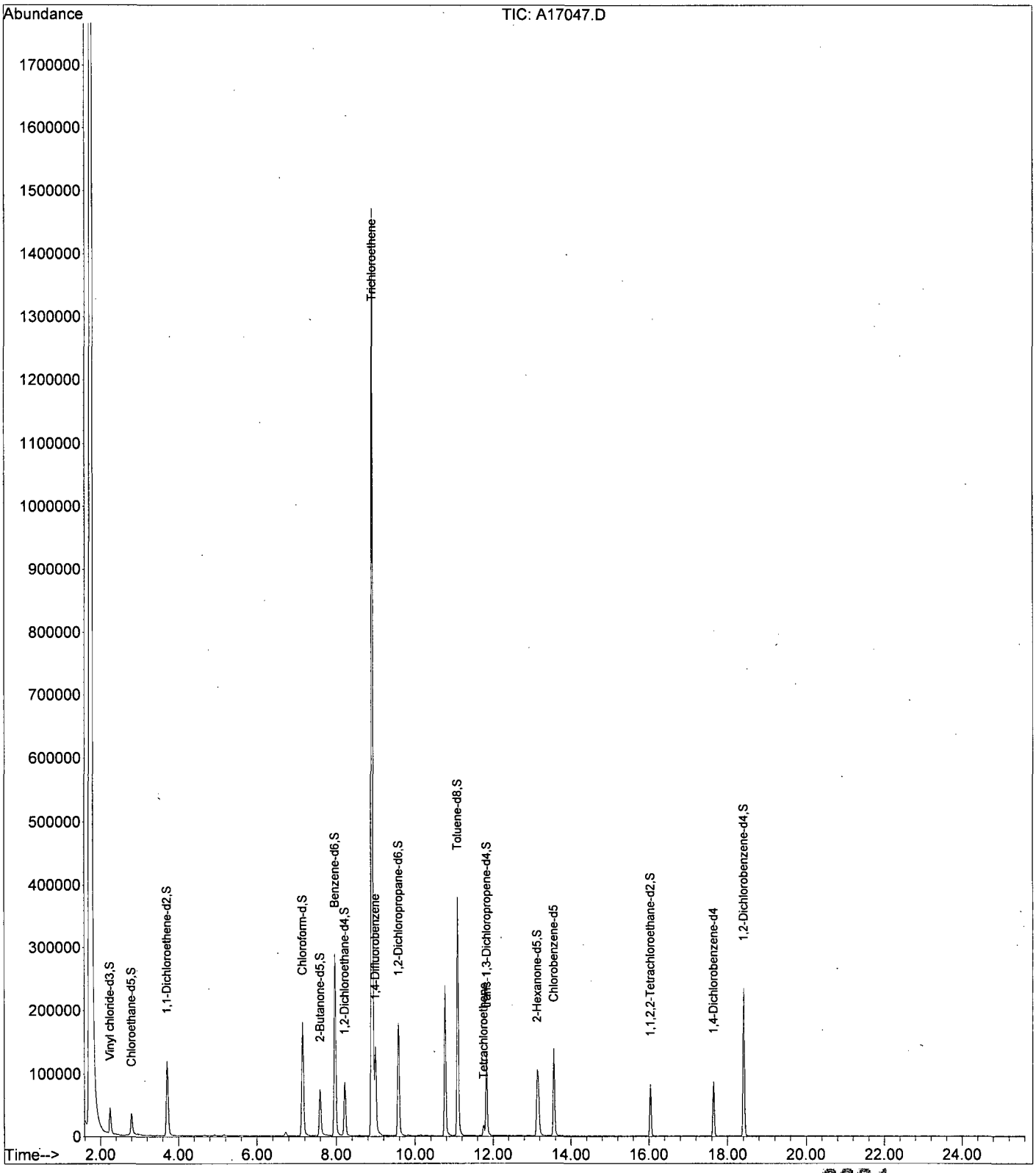
Quant Time: Nov 28 11:50:50 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1444073	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1153111	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	366116	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	746811	3.97	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 79.40%			
7) Chloroethane-d5	2.80	69	507267	4.56	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 91.20%			
10) 1,1-Dichloroethene-d2	3.72	63	1485040	3.20	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 64.00%			
21) 2-Butanone-d5	7.59	46	1517372	44.85	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 89.70%			
24) Chloroform-d	7.15	84	2050837	4.01	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 80.20%			
26) 1,2-Dichloroethane-d4	8.22	65	977239	4.79	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 95.80%			
32) Benzene-d6	7.97	84	3907938	4.59	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 91.80%			
36) 1,2-Dichloropropane-d6	9.58	67	1182141	4.68	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 93.60%			
41) Toluene-d8	11.10	98	3815113	4.90	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 98.00%			
43) trans-1,3-Dichloropropene-	11.83	79	977816	4.44	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 88.80%			
47) 2-Hexanone-d5	13.14	63	688618	54.17	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 108.34%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	607119	5.06	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 101.20%			
63) 1,2-Dichlorobenzene-d4	18.42	152	955103	5.74	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 114.80%			
Target Compounds						Qvalue
34) Trichloroethene	8.91	95	7177998	29.29	ug/L	93
46) Tetrachloroethene	11.76	164	61900	0.33	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDCHEM\1\DATA\A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

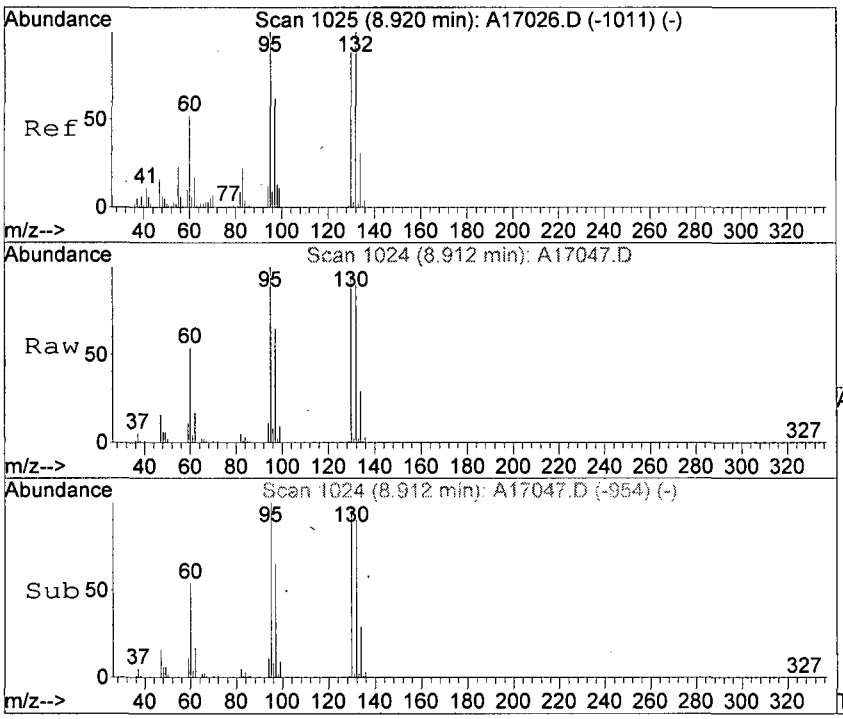
Quant Time: Nov 28 11:50:50 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



0224

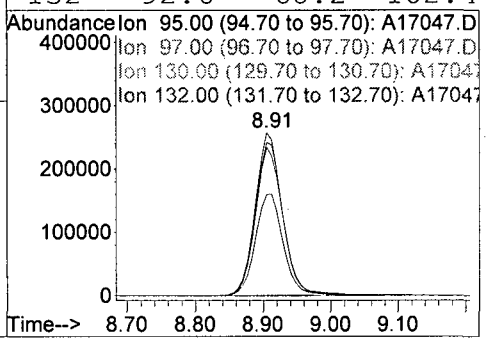
Data File : C:\MSDCHEM\1\DATA\A17047.D
Acq On : 11/27/08 09:07
Sample : F2XF2
Misc : S-2066.08 25ML
MS Integration Params: LSCINT.E

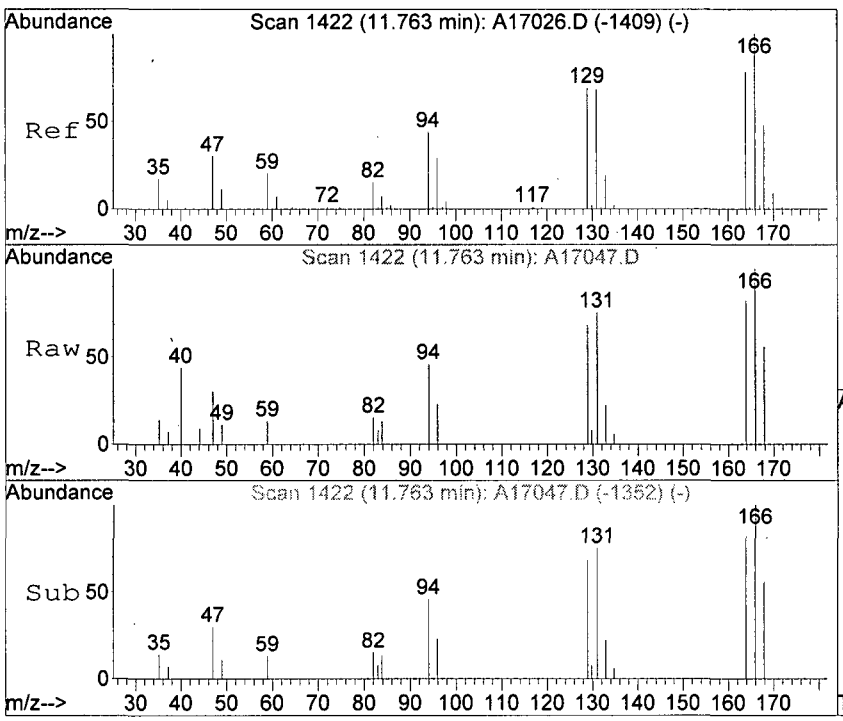
Vial: 4
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 29.29 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.00 min
Integration Range:
Scan=1010 to 1047
R.T.= 8.81 to 9.08 (min)
Tgt Ion: 95 Resp: 7177998

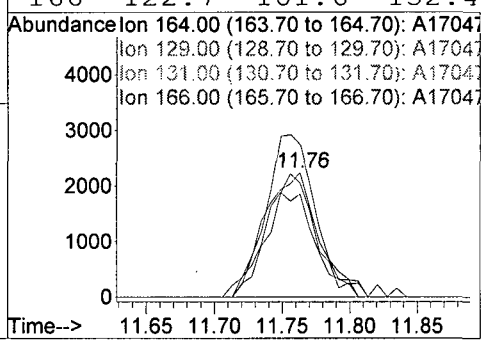
Ion	Ratio	Lower	Upper
95	100		
97	63.9	55.4	83.2
130	95.4	71.8	107.6
132	92.0	68.2	102.4





#46
Tetrachloroethene
Concen: 0.33 ug/L
RT: 11.76 min Scan# 1422
Delta R.T. 0.00 min
Integration Range:
Scan=1412 to 1431
R.T.= 11.69 to 11.83 (min)
Tgt Ion:164 Resp: 61900

Ion	Ratio	Lower	Upper
164	100		
129	84.7	80.6	120.8
131	85.2	79.1	118.7
166	122.7	101.6	152.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.244	84	93	111	BV 2	40107	1119406	2.78%	0.918%
2	2.380	111	112	119	PB 2	1401	29828	0.07%	0.024%
3	2.466	119	124	131	BV 2	1043	18464	0.05%	0.015%
4	2.530	131	133	138	PV 2	602	11727	0.03%	0.010%
5	2.595	138	142	143	VV 3	641	6329	0.02%	0.005%
6	2.623	143	146	148	VV 2	579	6402	0.02%	0.005%
7	2.666	148	152	156	VV	1754	25886	0.06%	0.021%
8	2.795	156	170	190	VV 2	34944	1338297	3.32%	1.098%
9	2.953	190	192	197	VV 5	3280	71712	0.18%	0.059%
10	3.003	197	199	201	VV 2	2583	40157	0.10%	0.033%
11	3.024	201	202	209	VV 2	2398	61434	0.15%	0.050%
12	3.089	209	211	214	VV 2	1362	23725	0.06%	0.019%
13	3.125	214	216	217	VV	1200	15281	0.04%	0.013%
14	3.146	217	219	221	VV	1025	11447	0.03%	0.009%
15	3.168	221	222	226	VV	870	16394	0.04%	0.013%
16	3.218	226	229	232	VV 2	925	17241	0.04%	0.014%
17	3.254	232	234	236	VV	898	12552	0.03%	0.010%
18	3.275	236	237	239	VV 2	1094	11807	0.03%	0.010%
19	3.304	239	241	249	VV 2	976	24665	0.06%	0.020%
20	3.375	249	251	255	VV 2	625	10539	0.03%	0.009%
21	3.425	255	258	260	VV 2	861	12439	0.03%	0.010%
22	3.454	260	262	268	VV	879	17712	0.04%	0.015%
23	3.526	268	272	274	VV 2	909	13963	0.03%	0.011%
24	3.583	274	280	282	VV 3	618	16462	0.04%	0.014%
25	3.619	282	285	287	VV	658	9928	0.02%	0.008%
26	3.719	287	299	323	VV	119248	4091935	10.15%	3.356%
27	3.905	323	325	330	VV	1080	19713	0.05%	0.016%
28	3.948	330	331	336	VV 2	859	13675	0.03%	0.011%
29	4.020	336	341	344	VV 2	753	15912	0.04%	0.013%
30	4.063	344	347	349	VV	723	10885	0.03%	0.009%
31	4.099	349	352	357	VV 2	983	16931	0.04%	0.014%
32	4.149	357	359	362	VV 2	549	8024	0.02%	0.007%
33	4.185	362	364	365	VV	604	5870	0.01%	0.005%
34	4.221	365	369	372	VV 2	860	14027	0.03%	0.012%
35	4.264	372	375	377	VV	772	10051	0.02%	0.008%
36	4.292	377	379	387	VV 2	847	19555	0.05%	0.016%
37	4.364	387	389	395	PV 2	507	11959	0.03%	0.010%
38	4.428	395	398	406	VV 2	569	18333	0.05%	0.015%
39	4.500	406	408	415	VV 2	540	15877	0.04%	0.013%
40	4.579	415	419	420	VV 2	498	6697	0.02%	0.005%
41	4.600	420	422	424	VV	654	7261	0.02%	0.006%
42	4.672	424	432	437	VV 4	1814	58476	0.15%	0.048%
43	4.722	437	439	444	VV 2	924	13823	0.03%	0.011%
44	4.808	444	451	454	VV 3	978	27705	0.07%	0.023%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.837	454	455	457	VV		442	4502	0.01%	0.004%
46	4.872	457	460	461	VV		775	7950	0.02%	0.007%
47	4.915	461	466	476	VV	3	2365	66076	0.16%	0.054%
48	5.016	476	480	486	VV		614	18075	0.04%	0.015%
49	5.145	486	498	500	VV	3	1771	52934	0.13%	0.043%
50	5.173	500	502	506	VV	3	2153	36312	0.09%	0.030%
51	5.209	506	507	516	VV		906	26139	0.06%	0.021%
52	5.309	516	521	523	VV	2	751	12392	0.03%	0.010%
53	5.345	523	526	537	VV	2	505	22015	0.05%	0.018%
54	5.453	537	541	547	VV	2	957	18925	0.05%	0.016%
55	5.503	547	548	552	VV	2	435	5607	0.01%	0.005%
56	5.546	552	554	559	PV	2	702	9309	0.02%	0.008%
57	5.596	559	561	565	VV	2	802	14111	0.03%	0.012%
58	5.639	565	567	569	VV		734	7807	0.02%	0.006%
59	5.660	569	570	574	VV		621	9295	0.02%	0.008%
60	5.703	574	576	586	VV	2	775	20663	0.05%	0.017%
61	5.789	586	588	595	VV	2	457	12114	0.03%	0.010%
62	5.868	595	599	604	VV	2	679	18600	0.05%	0.015%
63	5.918	604	606	607	VV		813	9105	0.02%	0.007%
64	5.940	607	609	612	VV	2	861	10018	0.02%	0.008%
65	5.990	612	616	624	VV	2	794	24313	0.06%	0.020%
66	6.090	624	630	636	VV	2	828	24370	0.06%	0.020%
67	6.162	636	640	646	VV	2	674	25054	0.06%	0.021%
68	6.226	646	649	652	VV	2	722	13310	0.03%	0.011%
69	6.262	652	654	657	VV	2	562	8339	0.02%	0.007%
70	6.312	657	661	663	VV		464	8189	0.02%	0.007%
71	6.341	663	665	668	VV	2	722	8749	0.02%	0.007%
72	6.377	668	670	677	VV	2	789	19598	0.05%	0.016%
73	6.441	677	679	683	VV	2	754	10121	0.03%	0.008%
74	6.484	683	685	687	VV	2	487	7402	0.02%	0.006%
75	6.513	687	689	690	VV		459	5492	0.01%	0.005%
76	6.541	690	693	695	VV		585	7990	0.02%	0.007%
77	6.577	695	698	706	VV	2	634	16805	0.04%	0.014%
78	6.728	706	719	727	VV	6	6323	205115	0.51%	0.168%
79	6.821	727	732	735	VV	2	736	17939	0.04%	0.015%
80	6.857	735	737	739	VV		783	8288	0.02%	0.007%
81	6.885	739	741	744	VV		634	7974	0.02%	0.007%
82	6.935	744	748	753	VV	2	624	15579	0.04%	0.013%
83	6.978	753	754	756	VV	2	433	3563	0.01%	0.003%
84	7.028	756	761	762	VV	2	740	8924	0.02%	0.007%
85	7.043	762	763	766	VV		483	5632	0.01%	0.005%
86	7.157	766	779	792	VV		177665	5836375	14.47%	4.786%
87	7.258	792	793	800	VV	3	3120	70891	0.18%	0.058%
88	7.322	800	802	805	VV	2	1376	18785	0.05%	0.015%
89	7.351	805	806	809	VV	2	623	9277	0.02%	0.008%
90	7.379	809	810	812	VV		575	6535	0.02%	0.005%
91	7.408	812	814	818	VV		958	18537	0.05%	0.015%

0227

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.480	818	824	827	VV 3	1011	24789	0.06%	0.020%
93	7.516	827	829	830	VV 2	767	9798	0.02%	0.008%
94	7.594	830	840	857	VV 2	75148	2410600	5.98%	1.977%
95	7.730	857	859	863	VV 3	2027	43040	0.11%	0.035%
96	7.766	863	864	866	VV 2	1727	17920	0.04%	0.015%
97	7.788	866	867	870	VV	1622	19802	0.05%	0.016%
98	7.831	870	873	876	VV 2	1115	24087	0.06%	0.020%
99	7.874	876	879	881	VV 3	919	15364	0.04%	0.013%
100	7.974	881	893	912	VV	286596	8746942	21.69%	7.173%
101	8.117	912	913	917	VV	1865	26598	0.07%	0.022%
102	8.218	917	927	939	VV	85995	2736058	6.78%	2.244%
103	8.318	939	941	947	VV 2	1547	35361	0.09%	0.029%
104	8.375	947	949	951	VV	805	12857	0.03%	0.011%
105	8.404	951	953	956	VV	648	8511	0.02%	0.007%
106	8.440	956	958	960	VV	593	6756	0.02%	0.006%
107	8.483	960	964	966	VV	703	11505	0.03%	0.009%
108	8.511	966	968	970	VV	591	9082	0.02%	0.007%
109	8.540	970	972	973	VV 2	574	6258	0.02%	0.005%
110	8.569	973	976	978	VV	672	10311	0.03%	0.008%
111	8.597	978	980	983	VV 2	1037	12975	0.03%	0.011%
112	8.690	983	993	997	VV 2	756	27096	0.07%	0.022%
113	8.748	997	1001	1004	VV	664	11842	0.03%	0.010%
114	8.783	1004	1006	1008	VV	482	5900	0.01%	0.005%
115	8.819	1008	1011	1013	VV	728	9014	0.02%	0.007%
116	8.912	1013	1024	1032	VV	1452769	40325662	100.00%	33.072%
117	8.998	1032	1036	1067	VV	139965	4461453	11.06%	3.659%
118	9.228	1067	1068	1075	VV 2	1171	26360	0.07%	0.022%
119	9.292	1075	1077	1078	VV 2	829	10154	0.03%	0.008%
120	9.321	1078	1081	1083	VV 3	994	14705	0.04%	0.012%
121	9.364	1083	1087	1092	VV 2	680	20749	0.05%	0.017%
122	9.421	1092	1095	1097	VV	772	12226	0.03%	0.010%
123	9.464	1097	1101	1105	VV	1107	23153	0.06%	0.019%
124	9.579	1105	1117	1135	VV 2	179085	5607020	13.90%	4.598%
125	9.715	1135	1136	1139	VV 2	1555	20609	0.05%	0.017%
126	9.743	1139	1140	1146	VV	1349	22885	0.06%	0.019%
127	9.822	1146	1151	1153	VV 2	1592	32597	0.08%	0.027%
128	9.844	1153	1154	1158	VV 2	1338	19735	0.05%	0.016%
129	9.887	1158	1160	1162	VV	806	8011	0.02%	0.007%
130	9.922	1162	1165	1171	VV 2	909	22625	0.06%	0.019%
131	9.980	1171	1173	1174	VV 2	569	5118	0.01%	0.004%
132	10.001	1174	1176	1181	VV	694	16119	0.04%	0.013%
133	10.144	1181	1196	1204	VV 3	1846	75507	0.19%	0.062%
134	10.209	1204	1205	1210	VV	585	12684	0.03%	0.010%
135	10.259	1210	1212	1215	VV 2	807	11638	0.03%	0.010%
136	10.295	1215	1217	1221	VV 2	661	12214	0.03%	0.010%
137	10.331	1221	1222	1227	VV 2	720	12349	0.03%	0.010%
138	10.388	1227	1230	1232	VV 2	668	8869	0.02%	0.007%
139	10.452	1232	1239	1241	VV 2	878	21878	0.05%	0.018%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.481	1241	1243	1250	VV	2	530	14544	0.04%	0.012%
141	10.538	1250	1251	1255	VV	2	451	7785	0.02%	0.006%
142	10.596	1255	1259	1262	PV	2	698	13247	0.03%	0.011%
143	10.639	1262	1265	1267	VV		638	8279	0.02%	0.007%
144	10.667	1267	1269	1270	VV		458	4856	0.01%	0.004%
145	10.689	1270	1272	1274	VV	2	434	5985	0.01%	0.005%
146	10.768	1274	1283	1310	VV		235719	6472478	16.05%	5.308%
147	10.997	1310	1315	1319	VV	3	1019	30396	0.08%	0.025%
148	11.097	1319	1329	1351	VV		379090	10530042	26.11%	8.636%
149	11.269	1351	1353	1357	VV	2	885	20030	0.05%	0.016%
150	11.305	1357	1358	1362	VV	2	898	14041	0.03%	0.012%
151	11.348	1362	1364	1369	VV	3	984	24305	0.06%	0.020%
152	11.398	1369	1371	1373	VV	2	858	9208	0.02%	0.008%
153	11.448	1373	1378	1379	VV	2	753	15842	0.04%	0.013%
154	11.470	1379	1381	1387	VV	2	791	19414	0.05%	0.016%
155	11.527	1387	1389	1391	VV	2	868	13911	0.03%	0.011%
156	11.563	1391	1394	1399	VV		736	19845	0.05%	0.016%
157	11.613	1399	1401	1407	VV	3	768	21318	0.05%	0.017%
158	11.756	1407	1421	1425	VV	4	16891	475288	1.18%	0.390%
159	11.835	1425	1432	1448	VV		130456	3524415	8.74%	2.890%
160	11.978	1448	1452	1456	VV	2	998	27128	0.07%	0.022%
161	12.021	1456	1458	1459	VV		866	11326	0.03%	0.009%
162	12.043	1459	1461	1463	VV		899	11217	0.03%	0.009%
163	12.064	1463	1464	1467	VV		1002	14390	0.04%	0.012%
164	12.121	1467	1472	1474	VV	3	1321	24799	0.06%	0.020%
165	12.143	1474	1475	1479	VV	2	866	14324	0.04%	0.012%
166	12.186	1479	1481	1483	VV	2	915	10352	0.03%	0.008%
167	12.207	1483	1484	1488	VV		994	14180	0.04%	0.012%
168	12.250	1488	1490	1509	VV	2	1139	52902	0.13%	0.043%
169	12.422	1509	1514	1516	VV	2	1035	21557	0.05%	0.018%
170	12.451	1516	1518	1520	VV		734	8970	0.02%	0.007%
171	12.480	1520	1522	1524	VV		787	10924	0.03%	0.009%
172	12.508	1524	1526	1529	VV	2	820	12503	0.03%	0.010%
173	12.544	1529	1531	1534	VV		584	8123	0.02%	0.007%
174	12.580	1534	1536	1537	VV	2	548	5907	0.01%	0.005%
175	12.601	1537	1539	1541	VV		567	5954	0.01%	0.005%
176	12.630	1541	1543	1545	VV		870	11981	0.03%	0.010%
177	12.651	1545	1546	1550	VV	2	838	13031	0.03%	0.011%
178	12.709	1550	1554	1556	VV	2	791	14324	0.04%	0.012%
179	12.730	1556	1557	1567	VV	3	745	26342	0.07%	0.022%
180	12.816	1567	1569	1571	VV		729	9014	0.02%	0.007%
181	12.845	1571	1573	1577	VV		718	11893	0.03%	0.010%
182	12.888	1577	1579	1581	VV	2	885	11254	0.03%	0.009%
183	12.916	1581	1583	1585	VV		1095	9188	0.02%	0.008%
184	12.945	1585	1587	1597	VV	2	966	26703	0.07%	0.022%
185	13.053	1597	1602	1604	VV	2	841	14965	0.04%	0.012%
186	13.146	1604	1615	1633	VV	2	103989	4429914	10.99%	3.633%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.289	1633	1635	1644	VV 4	1561	46556	0.12%	0.038%
188	13.375	1644	1647	1650	VV	741	14627	0.04%	0.012%
189	13.432	1650	1655	1657	VV	986	19512	0.05%	0.016%
190	13.461	1657	1659	1664	VV	851	16602	0.04%	0.014%
191	13.568	1664	1674	1688	VV 2	137044	3795253	9.41%	3.113%
192	13.683	1688	1690	1694	VV 3	871	16876	0.04%	0.014%
193	13.740	1694	1698	1699	VV 2	730	11574	0.03%	0.009%
194	13.762	1699	1701	1707	VV 2	698	17163	0.04%	0.014%
195	13.819	1707	1709	1713	VV 2	640	12848	0.03%	0.011%
196	13.869	1713	1716	1718	VV	775	13226	0.03%	0.011%
197	13.898	1718	1720	1721	VV 2	756	9560	0.02%	0.008%
198	13.941	1721	1726	1735	VV 2	1296	40826	0.10%	0.033%
199	14.020	1735	1737	1745	VV	867	23338	0.06%	0.019%
200	14.091	1745	1747	1749	VV 2	933	11117	0.03%	0.009%
201	14.120	1749	1751	1755	VV 2	929	15342	0.04%	0.013%
202	14.163	1755	1757	1760	VV 2	695	11983	0.03%	0.010%
203	14.192	1760	1761	1765	VV	626	10178	0.03%	0.008%
204	14.242	1765	1768	1771	VV 2	602	11016	0.03%	0.009%
205	14.277	1771	1773	1775	VV	900	9112	0.02%	0.007%
206	14.306	1775	1777	1779	VV	719	7306	0.02%	0.006%
207	14.342	1779	1782	1786	VV 2	631	13288	0.03%	0.011%
208	14.399	1786	1790	1793	VV 2	713	14778	0.04%	0.012%
209	14.449	1793	1797	1801	VV 2	731	14659	0.04%	0.012%
210	14.485	1801	1802	1805	VV	867	9142	0.02%	0.007%
211	14.535	1805	1809	1815	VV	724	19410	0.05%	0.016%
212	14.600	1815	1818	1821	VV 2	678	14643	0.04%	0.012%
213	14.628	1821	1822	1824	VV	534	6635	0.02%	0.005%
214	14.700	1824	1832	1838	VV 2	915	32913	0.08%	0.027%
215	14.757	1838	1840	1843	VV	912	14122	0.04%	0.012%
216	14.793	1843	1845	1848	VV 2	606	8578	0.02%	0.007%
217	14.829	1848	1850	1852	VV	540	6892	0.02%	0.006%
218	14.851	1852	1853	1857	VV 2	567	9882	0.02%	0.008%
219	14.915	1857	1862	1865	VV 2	865	18081	0.04%	0.015%
220	14.979	1865	1871	1874	VV 2	757	21605	0.05%	0.018%
221	15.022	1874	1877	1881	VV 2	523	12627	0.03%	0.010%
222	15.087	1881	1886	1893	VV 2	602	22462	0.06%	0.018%
223	15.144	1893	1894	1902	VV 2	402	16771	0.04%	0.014%
224	15.223	1902	1905	1908	VV	653	14699	0.04%	0.012%
225	15.266	1908	1911	1913	VV	675	9130	0.02%	0.007%
226	15.295	1913	1915	1918	VV 2	715	11240	0.03%	0.009%
227	15.330	1918	1920	1924	VV 2	421	7573	0.02%	0.006%
228	15.381	1924	1927	1929	VV 2	405	6169	0.02%	0.005%
229	15.431	1929	1934	1938	VV 2	637	17111	0.04%	0.014%
230	15.502	1938	1944	1948	VV 2	476	14213	0.04%	0.012%
231	15.560	1948	1952	1953	VV 2	570	9603	0.02%	0.008%
232	15.581	1953	1955	1959	VV	746	12397	0.03%	0.010%
233	15.653	1959	1965	1967	VV 2	673	16664	0.04%	0.014%
234	15.710	1967	1973	1975	VV	759	15502	0.04%	0.013%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.760	1975	1980	1982	VV	664	12387	0.03%	0.010%
236	15.789	1982	1984	1987	VV	1009	15648	0.04%	0.013%
237	15.896	1987	1999	2001	VV 2	861	32557	0.08%	0.027%
238	15.946	2001	2006	2010	VV	792	18548	0.05%	0.015%
239	16.040	2010	2019	2029	VV 2	81330	2176064	5.40%	1.785%
240	16.140	2029	2033	2037	VV 2	805	19408	0.05%	0.016%
241	16.183	2037	2039	2040	VV	615	6585	0.02%	0.005%
242	16.204	2040	2042	2045	VV 2	796	12828	0.03%	0.011%
243	16.240	2045	2047	2053	VV 2	885	18235	0.05%	0.015%
244	16.305	2053	2056	2064	VV	772	17770	0.04%	0.015%
245	16.383	2064	2067	2071	VV	696	13288	0.03%	0.011%
246	16.426	2071	2073	2076	VV 2	614	7239	0.02%	0.006%
247	16.477	2076	2080	2084	VV 2	588	12720	0.03%	0.010%
248	16.527	2084	2087	2089	VV 2	450	6146	0.02%	0.005%
249	16.563	2089	2092	2094	VV	696	9426	0.02%	0.008%
250	16.591	2094	2096	2100	VV	469	8691	0.02%	0.007%
251	16.627	2100	2101	2106	VV	427	6014	0.01%	0.005%
252	16.677	2106	2108	2109	VV 2	425	4672	0.01%	0.004%
253	16.699	2109	2111	2116	VV	631	12471	0.03%	0.010%
254	16.756	2116	2119	2123	VV 2	613	15551	0.04%	0.013%
255	16.792	2123	2124	2128	VV 2	690	10810	0.03%	0.009%
256	16.835	2128	2130	2134	VV	414	7697	0.02%	0.006%
257	16.878	2134	2136	2137	VV	562	6728	0.02%	0.006%
258	16.899	2137	2139	2141	VV	600	6758	0.02%	0.006%
259	16.935	2141	2144	2146	VV 2	679	11569	0.03%	0.009%
260	16.964	2146	2148	2150	VV 2	533	6898	0.02%	0.006%
261	16.985	2150	2151	2153	VV	477	5515	0.01%	0.005%
262	17.035	2153	2158	2161	VV	611	13782	0.03%	0.011%
263	17.078	2161	2164	2166	VV	468	7857	0.02%	0.006%
264	17.114	2166	2169	2174	VV 2	869	18849	0.05%	0.015%
265	17.164	2174	2176	2185	VV	684	21846	0.05%	0.018%
266	17.236	2185	2186	2191	VV 2	582	9704	0.02%	0.008%
267	17.293	2191	2194	2196	VV 2	406	6890	0.02%	0.006%
268	17.322	2196	2198	2200	VV 2	461	5489	0.01%	0.005%
269	17.343	2200	2201	2203	VV	393	4192	0.01%	0.003%
270	17.372	2203	2205	2206	VV	437	5404	0.01%	0.004%
271	17.415	2206	2211	2213	VV 2	679	15073	0.04%	0.012%
272	17.451	2213	2216	2219	VV 2	724	10261	0.03%	0.008%
273	17.494	2219	2222	2225	VV	671	13206	0.03%	0.011%
274	17.529	2225	2227	2229	VV	755	8862	0.02%	0.007%
275	17.651	2229	2244	2257	VV	86502	2273801	5.64%	1.865%
276	17.759	2257	2259	2262	VV 2	673	11413	0.03%	0.009%
277	17.816	2262	2267	2274	VV 2	949	25481	0.06%	0.021%
278	17.888	2274	2277	2280	VV 2	585	10094	0.03%	0.008%
279	17.923	2280	2282	2284	VV 2	649	7232	0.02%	0.006%
280	17.981	2284	2290	2297	VV 2	723	29771	0.07%	0.024%
281	18.045	2297	2299	2306	VV	550	19969	0.05%	0.016%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.103	2306	2307	2309	VV	694	6886	0.02%	0.006%
283	18.131	2309	2311	2313	VV 2	525	7342	0.02%	0.006%
284	18.189	2313	2319	2323	VV	986	19049	0.05%	0.016%
285	18.260	2323	2329	2332	VV 2	643	14035	0.03%	0.012%
286	18.310	2332	2336	2341	VV 2	663	15689	0.04%	0.013%
287	18.418	2341	2351	2365	VV	232796	6026567	14.94%	4.942%
288	18.532	2365	2367	2370	VV 2	927	11707	0.03%	0.010%
289	18.575	2370	2373	2374	VV 2	517	7265	0.02%	0.006%
290	18.597	2374	2376	2378	VV	942	10282	0.03%	0.008%
291	18.647	2378	2383	2390	VV 2	793	26445	0.07%	0.022%
292	18.726	2390	2394	2396	VV 2	827	13601	0.03%	0.011%
293	18.747	2396	2397	2399	VV	511	7110	0.02%	0.006%
294	18.769	2399	2400	2405	VV	568	9385	0.02%	0.008%
295	18.819	2405	2407	2410	VV 2	629	10019	0.02%	0.008%
296	18.855	2410	2412	2415	VV 2	564	9449	0.02%	0.008%
297	18.890	2415	2417	2419	VV 2	486	6930	0.02%	0.006%
298	18.941	2419	2424	2427	VV 2	638	15700	0.04%	0.013%
299	18.998	2427	2432	2437	VV	742	19607	0.05%	0.016%
300	19.055	2437	2440	2447	VV 2	618	16399	0.04%	0.013%
301	19.127	2447	2450	2452	VV 2	656	8612	0.02%	0.007%
302	19.163	2452	2455	2457	VV 2	590	9025	0.02%	0.007%
303	19.227	2457	2464	2466	VV 2	559	17156	0.04%	0.014%
304	19.256	2466	2468	2475	VV 2	620	14884	0.04%	0.012%
305	19.356	2475	2482	2486	VV 2	1013	25099	0.06%	0.021%
306	19.399	2486	2488	2491	VV 2	639	9007	0.02%	0.007%
307	19.456	2491	2496	2499	VV	608	12082	0.03%	0.010%
308	19.492	2499	2501	2505	VV 2	610	9428	0.02%	0.008%
309	19.535	2505	2507	2508	VV 2	558	5176	0.01%	0.004%
310	19.564	2508	2511	2514	VV 2	918	14931	0.04%	0.012%
311	19.607	2514	2517	2524	VV	969	19111	0.05%	0.016%
312	19.686	2524	2528	2530	VV 2	503	9465	0.02%	0.008%
313	19.721	2530	2533	2535	VV 2	523	8153	0.02%	0.007%
314	19.750	2535	2537	2551	VV 2	907	30185	0.07%	0.025%
315	19.857	2551	2552	2559	VV 2	658	14940	0.04%	0.012%
316	19.929	2559	2562	2567	VV	652	17392	0.04%	0.014%
317	19.979	2567	2569	2571	VV	504	5764	0.01%	0.005%
318	20.022	2571	2575	2581	VV 2	424	13635	0.03%	0.011%
319	20.087	2581	2584	2586	VV 2	632	9260	0.02%	0.008%
320	20.115	2586	2588	2591	VV	517	9578	0.02%	0.008%
321	20.166	2591	2595	2597	VV 2	591	9078	0.02%	0.007%
322	20.194	2597	2599	2601	VV 2	482	7568	0.02%	0.006%
323	20.223	2601	2603	2609	VV 2	577	16223	0.04%	0.013%
324	20.294	2609	2613	2616	VV 2	748	12649	0.03%	0.010%
325	20.330	2616	2618	2620	VV 2	658	8609	0.02%	0.007%
326	20.359	2620	2622	2626	VV	622	11327	0.03%	0.009%
327	20.395	2626	2627	2629	VV	444	4473	0.01%	0.004%
328	20.431	2629	2632	2635	VV	526	9698	0.02%	0.008%
329	20.459	2635	2636	2649	VV 2	671	24829	0.06%	0.020%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.574	2649	2652	2656	VV 2	499	11092	0.03%	0.009%
331	20.617	2656	2658	2660	VV 2	839	8739	0.02%	0.007%
332	20.681	2660	2667	2669	VV 2	618	16216	0.04%	0.013%
333	20.710	2669	2671	2673	VV 2	587	7240	0.02%	0.006%
334	20.782	2673	2681	2690	VV 2	654	30899	0.08%	0.025%
335	20.882	2690	2695	2697	VV	530	11298	0.03%	0.009%
336	20.903	2697	2698	2704	VV 2	414	11421	0.03%	0.009%
337	20.953	2704	2705	2707	VV	306	3157	0.01%	0.003%
338	20.982	2707	2709	2712	VV 2	582	8132	0.02%	0.007%
339	21.018	2712	2714	2716	VV	677	7144	0.02%	0.006%
340	21.054	2716	2719	2728	VV 2	582	20642	0.05%	0.017%
341	21.190	2728	2738	2740	VV 2	679	21010	0.05%	0.017%
342	21.226	2740	2743	2744	VV 2	503	7136	0.02%	0.006%
343	21.247	2744	2746	2748	VV 2	551	7333	0.02%	0.006%
344	21.276	2748	2750	2752	VV	422	5304	0.01%	0.004%
345	21.304	2752	2754	2757	VV	592	9029	0.02%	0.007%
346	21.340	2757	2759	2761	VV	470	5453	0.01%	0.004%
347	21.405	2761	2768	2771	VV	549	15594	0.04%	0.013%
348	21.448	2771	2774	2779	VV	723	15574	0.04%	0.013%
349	21.491	2779	2780	2782	VV	621	4628	0.01%	0.004%
350	21.526	2782	2785	2789	PV	405	6429	0.02%	0.005%
351	21.569	2789	2791	2793	VV 2	536	6400	0.02%	0.005%
352	21.598	2793	2795	2796	VV	533	5882	0.01%	0.005%
353	21.620	2796	2798	2802	VV 2	625	12506	0.03%	0.010%
354	21.663	2802	2804	2807	VV	744	11580	0.03%	0.009%
355	21.698	2807	2809	2813	VV	624	10217	0.03%	0.008%
356	21.734	2813	2814	2816	VV	413	3754	0.01%	0.003%
357	21.770	2816	2819	2823	VV 2	673	14447	0.04%	0.012%
358	21.834	2823	2828	2843	VV 2	735	33343	0.08%	0.027%
359	21.949	2843	2844	2847	VV	646	7386	0.02%	0.006%
360	21.978	2847	2848	2850	VV	717	6929	0.02%	0.006%
361	22.021	2850	2854	2857	VV	853	14984	0.04%	0.012%
362	22.057	2857	2859	2860	VV	783	6928	0.02%	0.006%
363	22.092	2860	2864	2872	VV 2	723	17217	0.04%	0.014%
364	22.171	2872	2875	2877	VV	652	11263	0.03%	0.009%
365	22.200	2877	2879	2885	VV 2	527	13852	0.03%	0.011%
366	22.264	2885	2888	2890	VV 2	532	7629	0.02%	0.006%
367	22.307	2890	2894	2897	VV 2	457	11369	0.03%	0.009%
368	22.343	2897	2899	2901	VV 2	587	7020	0.02%	0.006%
369	22.386	2901	2905	2908	VV 2	520	9800	0.02%	0.008%
370	22.422	2908	2910	2914	VV 2	551	9142	0.02%	0.007%
371	22.458	2914	2915	2923	VV 2	423	16820	0.04%	0.014%
372	22.536	2923	2926	2928	VV	760	8449	0.02%	0.007%
373	22.558	2928	2929	2932	VV	573	8369	0.02%	0.007%
374	22.594	2932	2934	2936	VV	639	6913	0.02%	0.006%
375	22.630	2936	2939	2943	VV 2	685	10601	0.03%	0.009%
376	22.694	2943	2948	2950	VV 2	460	9422	0.02%	0.008%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

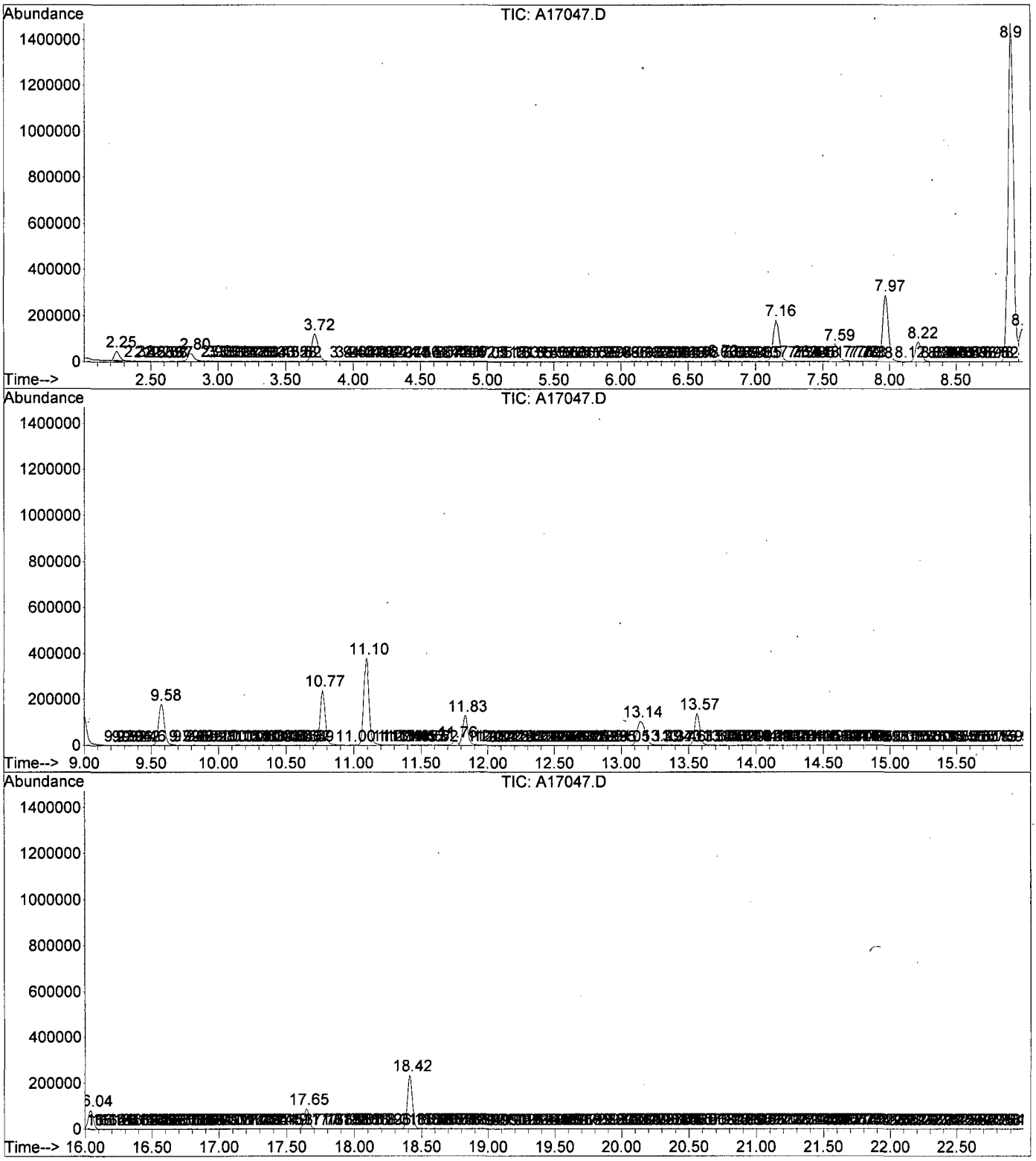
377	22.723	2950	2952	2955	VV 2	481	6590	0.02%	0.005%
378	22.759	2955	2957	2959	VV	487	5132	0.01%	0.004%
379	22.794	2959	2962	2966	VV	592	11470	0.03%	0.009%
380	22.844	2966	2969	2971	VV 2	464	6713	0.02%	0.006%
381	22.880	2971	2974	2976	VV	428	4658	0.01%	0.004%
382	22.945	2976	2983	2984	PV 2	278	6725	0.02%	0.006%

Sum of corrected areas: 121934773

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

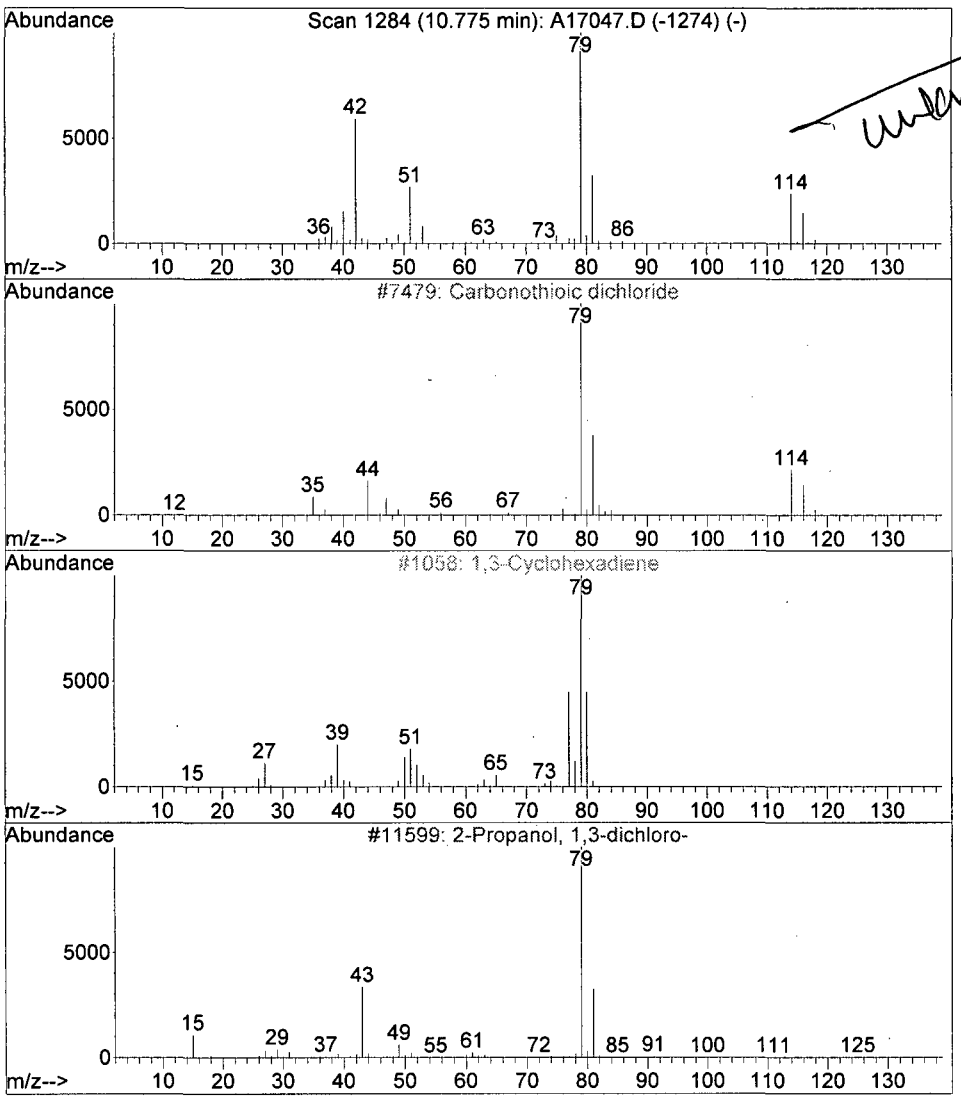
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

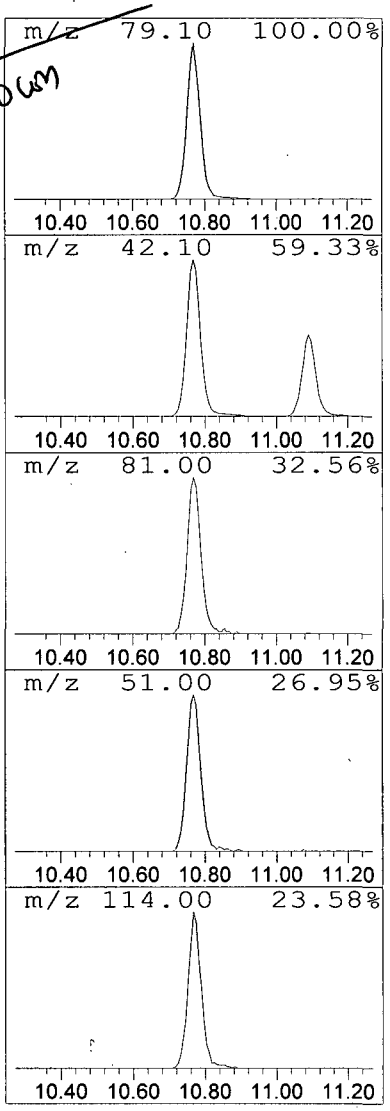
11/28/08

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	7.25 ug/L	6472480	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	49
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	Cyclopropane	42	C3H6	000075-19-4	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17047.D
Acq On : 11/27/08 09:07 Operator: SB
Sample : F2XF2 Inst : A-5973
Misc : S-2066.08 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	7.3	ug/L	6472480	1	9.00	4461450	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF2DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.08DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17038

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 4.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2.0	U
74-87-3	Chloromethane	2.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	2.0	U
75-00-3	Chloroethane	2.0	U
75-69-4	Trichlorofluoromethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	2.0	U
79-20-9	Methyl acetate	2.0	U
75-09-2	Methylene chloride	2.0	U
156-60-5	trans-1,2-Dichloroethene	2.0	U
1634-04-4	Methyl tert-butyl ether	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
156-59-2	cis-1,2-Dichloroethene	2.0	U
78-93-3	2-Butanone	20	U
74-97-5	Bromochloromethane	2.0	U
67-66-3	Chloroform	2.0	U
71-55-6	1,1,1-Trichloroethane	2.0	U
110-82-7	Cyclohexane	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
71-43-2	Benzene	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF2DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.08DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17038

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 4.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	24	D
108-87-2	Methylcyclohexane	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
75-27-4	Bromodichloromethane	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2.0	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
127-18-4	Tetrachloroethene	2.0	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	2.0	U
106-93-4	1,2-Dibromoethane	2.0	U
108-90-7	Chlorobenzene	2.0	U
100-41-4	Ethylbenzene	2.0	U
95-47-6	o-Xylene	2.0	U
179601-23-1	m,p-Xylene	2.0	U
100-42-5	Styrene	2.0	U
75-25-2	Bromoform	2.0	U
98-82-8	Isopropylbenzene	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
541-73-1	1,3-Dichlorobenzene	2.0	U
106-46-7	1,4-Dichlorobenzene	2.0	U
95-50-1	1,2-Dichlorobenzene	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-Trichlorobenzene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	2.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF2DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.08DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17038

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 4.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.78	34	DJB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 28 11:20:05 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

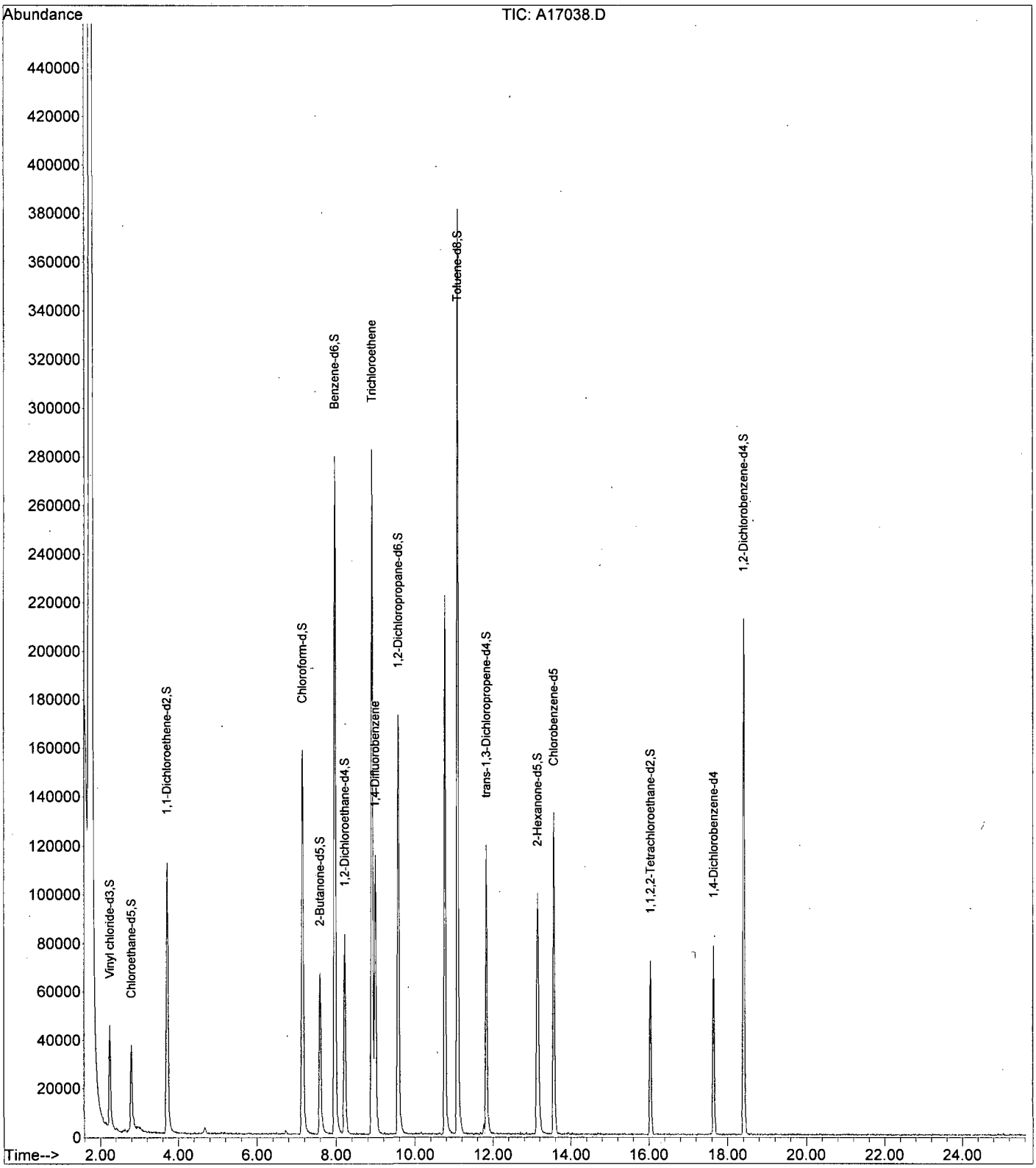
11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1322570	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1092801	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	327608	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	745681	4.33	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 86.60%			
7) Chloroethane-d5	2.80	69	495302	4.86	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 97.20%			
10) 1,1-Dichloroethene-d2	3.72	63	1364163	3.21	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 64.20%			
21) 2-Butanone-d5	7.60	46	1347676	43.49	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 86.98%			
24) Chloroform-d	7.16	84	1985981	4.24	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 84.80%			
26) 1,2-Dichloroethane-d4	8.23	65	874917	4.68	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 93.60%			
32) Benzene-d6	7.98	84	3807339	4.72	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 94.40%			
36) 1,2-Dichloropropane-d6	9.58	67	1156632	4.83	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 96.60%			
41) Toluene-d8	11.10	98	3709271	5.02	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.40%			
43) trans-1,3-Dichloropropene-	11.84	79	903172	4.33	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 86.60%			
47) 2-Hexanone-d5	13.16	63	566634	47.04	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 94.08%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	533744	4.69	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 93.80%			
63) 1,2-Dichlorobenzene-d4	18.42	152	902750	6.06	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 121.20%			
Target Compounds						Qvalue
34) Trichloroethene	8.92	95	1386241	5.97	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

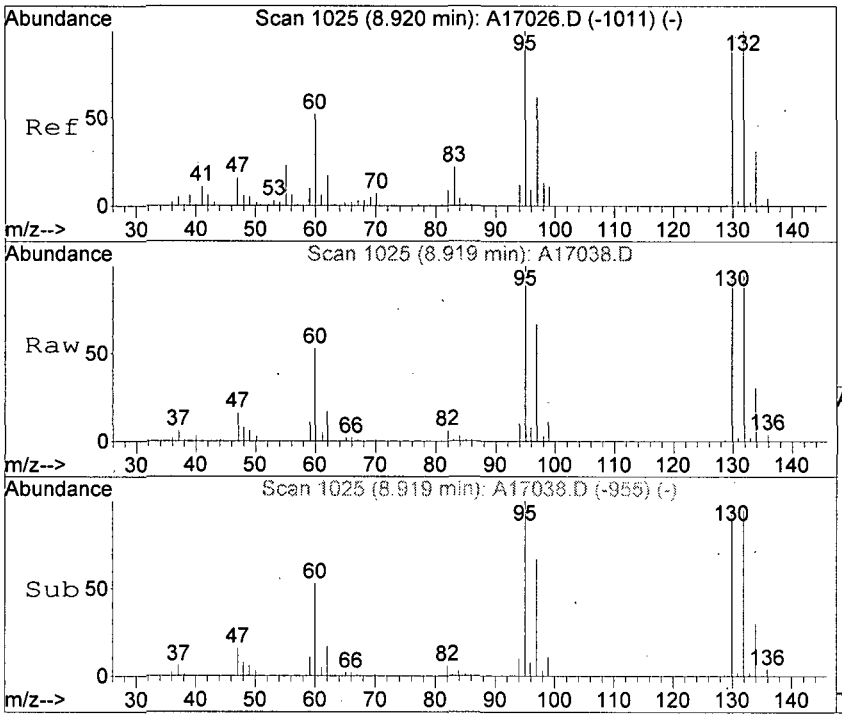
Data File: C:\MSDCHEM\1\DATA\A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 28 11:20:05 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



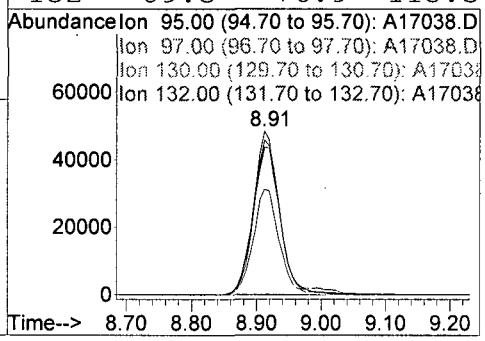
Data File : C:\MSDCHEM\1\DATA\A17038.D
Acq On : 11/27/08 01:22
Sample : F2XF2DL 4X
Misc : S-2066.08DL 25ML
MS Integration Params: LSCINT.E

Vial: 15
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 5.97 ug/L
RT: 8.92 min Scan# 1025
Delta R.T. 0.00 min
Integration Range:
Scan=1011 to 1049
R.T.= 8.82 to 9.09 (min)
Tgt Ion: 95 Resp: 1386241

Ion	Ratio	Lower	Upper
95	100		
97	63.4	53.2	79.8
130	94.3	79.5	119.3
132	89.3	76.9	115.3



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.143	72	79	86	BV 3	748	9718	0.10%	0.012%
2	2.251	86	94	114	PV	41910	1172045	11.51%	1.422%
3	2.415	114	117	123	VV 4	948	18293	0.18%	0.022%
4	2.466	123	124	132	VV 2	296	6570	0.06%	0.008%
5	2.537	132	134	136	PV 2	515	3677	0.04%	0.004%
6	2.609	136	144	146	PV 2	1107	26813	0.26%	0.033%
7	2.630	146	147	149	VV 2	1587	13490	0.13%	0.016%
8	2.666	149	152	154	VV 2	807	13395	0.13%	0.016%
9	2.731	154	161	162	VV 2	1618	32608	0.32%	0.040%
10	2.802	162	171	185	VV	35628	1185550	11.65%	1.439%
11	2.917	185	187	188	VV	2756	39628	0.39%	0.048%
12	2.953	188	192	195	VV 3	2761	65356	0.64%	0.079%
13	2.988	195	197	200	VV 2	2570	47961	0.47%	0.058%
14	3.024	200	202	209	VV 3	2523	71096	0.70%	0.086%
15	3.089	209	211	214	VV 2	1495	23136	0.23%	0.028%
16	3.125	214	216	219	VV	918	13546	0.13%	0.016%
17	3.160	219	221	227	VV 2	998	21991	0.22%	0.027%
18	3.239	227	232	236	VV 2	858	18174	0.18%	0.022%
19	3.289	236	239	247	VV 2	584	17887	0.18%	0.022%
20	3.368	247	250	255	VV 2	611	15984	0.16%	0.019%
21	3.418	255	257	260	VV 2	738	7947	0.08%	0.010%
22	3.447	260	261	265	VV	564	6691	0.07%	0.008%
23	3.490	265	267	273	VV 2	393	9895	0.10%	0.012%
24	3.547	273	275	281	VV 2	288	8719	0.09%	0.011%
25	3.604	281	283	284	VV	585	4708	0.05%	0.006%
26	3.626	284	286	289	VV	460	5670	0.06%	0.007%
27	3.726	289	300	323	PV 2	112210	3795522	37.29%	4.606%
28	3.898	323	324	329	VV 2	970	23174	0.23%	0.028%
29	3.941	329	330	332	VV 2	904	8485	0.08%	0.010%
30	3.977	332	335	338	VV	835	12343	0.12%	0.015%
31	4.020	338	341	345	VV	577	11632	0.11%	0.014%
32	4.070	345	348	349	VV 2	519	7395	0.07%	0.009%
33	4.092	349	351	356	VV 2	499	10153	0.10%	0.012%
34	4.149	356	359	367	VV 3	567	15764	0.15%	0.019%
35	4.213	367	368	371	VV 2	296	3084	0.03%	0.004%
36	4.256	371	374	379	VV	406	9276	0.09%	0.011%
37	4.306	379	381	385	VV 2	473	5049	0.05%	0.006%
38	4.357	385	388	390	VV 2	323	3699	0.04%	0.004%
39	4.414	390	396	398	VV 2	703	9723	0.10%	0.012%
40	4.443	398	400	406	PV 2	337	5857	0.06%	0.007%
41	4.500	406	408	410	VV	493	4544	0.04%	0.006%
42	4.529	410	412	416	VV 2	606	7605	0.07%	0.009%
43	4.572	416	418	419	VV	471	4133	0.04%	0.005%
44	4.600	419	422	425	VV 2	596	11944	0.12%	0.014%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.672	425	432	443	VV	5	2947	103266	1.01%	0.125%
46	4.765	443	445	449	VV		689	10615	0.10%	0.013%
47	4.808	449	451	456	VV	2	545	10270	0.10%	0.012%
48	4.851	456	457	459	VV	2	737	4831	0.05%	0.006%
49	4.880	459	461	463	VV		433	3855	0.04%	0.005%
50	4.908	463	465	474	PV	2	597	18929	0.19%	0.023%
51	4.987	474	476	477	VV		641	6005	0.06%	0.007%
52	5.008	477	479	483	VV	2	585	9663	0.09%	0.012%
53	5.059	483	486	489	VV	2	553	9859	0.10%	0.012%
54	5.102	489	492	501	VV	2	962	24978	0.25%	0.030%
55	5.188	501	504	509	VV	2	1116	18764	0.18%	0.023%
56	5.238	509	511	513	VV		666	7591	0.07%	0.009%
57	5.338	513	525	531	VV	2	627	28537	0.28%	0.035%
58	5.402	531	534	536	PV	2	477	6314	0.06%	0.008%
59	5.474	536	544	547	VV	2	927	17407	0.17%	0.021%
60	5.531	547	552	554	VV	2	569	9726	0.10%	0.012%
61	5.574	554	558	562	VV		613	12459	0.12%	0.015%
62	5.632	562	566	569	VV	2	548	10425	0.10%	0.013%
63	5.667	569	571	572	VV	2	328	3300	0.03%	0.004%
64	5.689	572	574	578	VV	2	592	8489	0.08%	0.010%
65	5.732	578	580	583	VV	2	396	7457	0.07%	0.009%
66	5.768	583	585	588	VV	2	615	9583	0.09%	0.012%
67	5.811	588	591	598	VV		730	19871	0.20%	0.024%
68	5.904	602	604	607	VV		349	6293	0.06%	0.008%
69	5.940	607	609	611	VV		533	6493	0.06%	0.008%
70	5.975	611	614	616	VV		546	7530	0.07%	0.009%
71	6.018	616	620	628	PV	2	572	19197	0.19%	0.023%
72	6.104	628	632	634	VV	2	447	6510	0.06%	0.008%
73	6.133	634	636	639	VV	2	724	9781	0.10%	0.012%
74	6.190	639	644	650	VV	2	559	17207	0.17%	0.021%
75	6.248	650	652	654	VV		739	7059	0.07%	0.009%
76	6.276	654	656	658	VV	2	463	5339	0.05%	0.006%
77	6.326	658	663	666	VV		743	14802	0.15%	0.018%
78	6.377	666	670	675	VV		714	16928	0.17%	0.021%
79	6.434	675	678	680	VV	2	732	11959	0.12%	0.015%
80	6.463	680	682	684	VV	2	573	8078	0.08%	0.010%
81	6.491	684	686	690	VV	2	1051	12486	0.12%	0.015%
82	6.541	690	693	699	VV	2	518	13262	0.13%	0.016%
83	6.627	699	705	709	VV	2	681	15904	0.16%	0.019%
84	6.670	709	711	715	VV		639	11717	0.12%	0.014%
85	6.728	715	719	730	VV	4	1840	54619	0.54%	0.066%
86	6.821	730	732	737	VV	2	318	6671	0.07%	0.008%
87	6.871	737	739	743	VV		511	8279	0.08%	0.010%
88	6.914	743	745	748	VV	2	481	8368	0.08%	0.010%
89	6.957	748	751	760	VV	2	514	18507	0.18%	0.022%
90	7.071	760	767	768	VV	2	547	9822	0.10%	0.012%
91	7.165	768	780	797	VV		157825	5265081	51.72%	6.389%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.301	797	799	804	VV	2	1614	31852	0.31%	0.039%
93	7.351	804	806	808	VV	2	1045	14948	0.15%	0.018%
94	7.372	808	809	813	VV	2	816	11352	0.11%	0.014%
95	7.430	813	817	821	VV	2	774	16170	0.16%	0.020%
96	7.465	821	822	824	VV		659	6785	0.07%	0.008%
97	7.494	824	826	827	VV		375	3853	0.04%	0.005%
98	7.601	827	841	871	VV		66664	2224665	21.85%	2.700%
99	7.824	871	872	875	VV		1092	13751	0.14%	0.017%
100	7.859	875	877	880	VV	2	813	10792	0.11%	0.013%
101	7.888	880	881	883	VV		791	7209	0.07%	0.009%
102	7.981	883	894	911	VV		276898	8486591	83.37%	10.298%
103	8.117	911	913	917	VV	3	1683	31304	0.31%	0.038%
104	8.225	917	928	946	VV		81415	2560117	25.15%	3.107%
105	8.368	946	948	950	VV	2	677	8009	0.08%	0.010%
106	8.461	950	961	966	VV	2	708	31700	0.31%	0.038%
107	8.518	966	969	977	VV	2	831	21493	0.21%	0.026%
108	8.604	977	981	987	VV	2	761	21021	0.21%	0.026%
109	8.697	987	994	999	VV	2	768	23196	0.23%	0.028%
110	8.783	999	1006	1009	VV	2	478	11074	0.11%	0.013%
111	8.919	1009	1025	1031	VV		278448	7696036	75.61%	9.339%
112	9.005	1031	1037	1057	VV		115212	3433632	33.73%	4.167%
113	9.156	1057	1058	1063	VV	2	854	12904	0.13%	0.016%
114	9.227	1063	1068	1071	VV	2	1130	22254	0.22%	0.027%
115	9.263	1071	1073	1074	VV	2	675	6870	0.07%	0.008%
116	9.285	1074	1076	1078	VV	2	851	8646	0.08%	0.010%
117	9.313	1078	1080	1082	VV		672	7571	0.07%	0.009%
118	9.371	1082	1088	1093	VV		871	25122	0.25%	0.030%
119	9.442	1093	1098	1101	VV	2	786	17364	0.17%	0.021%
120	9.485	1101	1104	1108	VV	2	607	12057	0.12%	0.015%
121	9.586	1108	1118	1144	VV	2	172668	5432375	53.37%	6.592%
122	9.779	1144	1145	1147	VV	2	971	8366	0.08%	0.010%
123	9.801	1147	1148	1155	VV	2	637	15482	0.15%	0.019%
124	9.865	1155	1157	1159	VV		624	6560	0.06%	0.008%
125	9.915	1159	1164	1167	VV	2	702	17276	0.17%	0.021%
126	9.951	1167	1169	1173	VV	2	438	8642	0.08%	0.010%
127	9.994	1173	1175	1179	VV	2	583	12178	0.12%	0.015%
128	10.037	1179	1181	1183	VV		769	8800	0.09%	0.011%
129	10.094	1183	1189	1191	VV	2	773	14721	0.14%	0.018%
130	10.159	1191	1198	1209	VV	2	1209	41340	0.41%	0.050%
131	10.266	1209	1213	1220	VV		635	19632	0.19%	0.024%
132	10.338	1220	1223	1231	VV		702	21680	0.21%	0.026%
133	10.417	1231	1234	1236	VV	2	560	9344	0.09%	0.011%
134	10.452	1236	1239	1242	VV		805	12377	0.12%	0.015%
135	10.488	1242	1244	1246	VV	2	611	9638	0.09%	0.012%
136	10.524	1246	1249	1254	VV	2	590	12393	0.12%	0.015%
137	10.574	1254	1256	1258	PV		725	8798	0.09%	0.011%
138	10.617	1258	1262	1271	VV	2	751	28396	0.28%	0.034%
139	10.775	1271	1284	1305	VV		217885	5835599	57.33%	7.081%

0246

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.939	1305	1307	1315	VV	2	1355	36452	0.36%	0.044%
141	11.004	1315	1316	1318	VV	2	785	8547	0.08%	0.010%
142	11.097	1318	1329	1350	VV		375956	10179227	100.00%	12.352%
143	11.262	1350	1352	1357	VV	2	1028	22320	0.22%	0.027%
144	11.312	1357	1359	1363	VV	2	1043	18117	0.18%	0.022%
145	11.384	1363	1369	1371	VV	2	883	22599	0.22%	0.027%
146	11.462	1371	1380	1386	VV	2	852	35756	0.35%	0.043%
147	11.548	1386	1392	1395	VV		872	19850	0.20%	0.024%
148	11.584	1395	1397	1400	VV	2	760	10422	0.10%	0.013%
149	11.620	1400	1402	1404	VV		493	6512	0.06%	0.008%
150	11.677	1404	1410	1415	VV		1188	26508	0.26%	0.032%
151	11.763	1415	1422	1425	VV	4	4512	100592	0.99%	0.122%
152	11.835	1425	1432	1455	VV		116917	3170540	31.15%	3.847%
153	12.014	1455	1457	1461	VV	2	1113	18698	0.18%	0.023%
154	12.057	1461	1463	1465	VV		706	10375	0.10%	0.013%
155	12.107	1465	1470	1473	VV	3	905	23523	0.23%	0.029%
156	12.136	1473	1474	1476	VV	2	595	6688	0.07%	0.008%
157	12.193	1476	1482	1489	VV	2	796	31301	0.31%	0.038%
158	12.315	1489	1499	1501	VV	2	762	27532	0.27%	0.033%
159	12.358	1501	1505	1507	VV	2	748	13423	0.13%	0.016%
160	12.401	1507	1511	1518	VV	3	876	28001	0.28%	0.034%
161	12.501	1518	1525	1527	VV	2	842	18912	0.19%	0.023%
162	12.537	1527	1530	1532	VV		685	9649	0.09%	0.012%
163	12.594	1532	1538	1541	VV	2	725	21991	0.22%	0.027%
164	12.637	1541	1544	1547	VV	2	854	13725	0.13%	0.017%
165	12.673	1547	1549	1551	VV		568	8374	0.08%	0.010%
166	12.702	1551	1553	1555	VV		1370	12710	0.12%	0.015%
167	12.752	1555	1560	1565	VV		938	17812	0.17%	0.022%
168	12.859	1565	1575	1577	VV	2	1132	27365	0.27%	0.033%
169	12.888	1577	1579	1582	VV	2	545	8040	0.08%	0.010%
170	12.938	1582	1586	1590	VV		754	15138	0.15%	0.018%
171	12.981	1590	1592	1594	VV		565	5986	0.06%	0.007%
172	13.024	1594	1598	1600	VV	2	741	15383	0.15%	0.019%
173	13.060	1600	1603	1605	VV	2	819	11564	0.11%	0.014%
174	13.153	1605	1616	1637	VV	3	97374	3862946	37.95%	4.688%
175	13.318	1637	1639	1654	VV	3	1299	55042	0.54%	0.067%
176	13.439	1654	1656	1665	VV	2	825	28592	0.28%	0.035%
177	13.568	1665	1674	1692	VV		131270	3586675	35.24%	4.352%
178	13.704	1692	1693	1699	VV	2	917	19159	0.19%	0.023%
179	13.762	1699	1701	1703	VV	2	546	6198	0.06%	0.008%
180	13.783	1703	1704	1706	VV		666	7036	0.07%	0.009%
181	13.812	1706	1708	1716	VV	2	543	22156	0.22%	0.027%
182	13.891	1716	1719	1721	VV	2	901	11511	0.11%	0.014%
183	13.926	1721	1724	1731	VV	2	1180	27871	0.27%	0.034%
184	13.998	1731	1734	1736	VV	2	669	8205	0.08%	0.010%
185	14.034	1736	1739	1740	VV		1139	12853	0.13%	0.016%
186	14.055	1740	1742	1745	VV	2	724	9596	0.09%	0.012%

0247

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	14.098	1745	1748	1753	VV 2	625	13957	0.14%	0.017%
188	14.148	1753	1755	1759	VV 2	715	12389	0.12%	0.015%
189	14.191	1759	1761	1765	VV	475	8586	0.08%	0.010%
190	14.234	1765	1767	1768	VV	598	6788	0.07%	0.008%
191	14.256	1768	1770	1773	VV 2	781	10274	0.10%	0.012%
192	14.292	1773	1775	1779	VV	749	15275	0.15%	0.019%
193	14.392	1779	1789	1791	VV 2	816	23432	0.23%	0.028%
194	14.421	1791	1793	1794	VV	673	5583	0.05%	0.007%
195	14.457	1794	1798	1807	VV 2	703	25788	0.25%	0.031%
196	14.535	1807	1809	1814	VV 2	570	12834	0.13%	0.016%
197	14.585	1814	1816	1818	VV	689	7253	0.07%	0.009%
198	14.621	1818	1821	1825	VV	780	13768	0.14%	0.017%
199	14.671	1825	1828	1829	VV	570	6342	0.06%	0.008%
200	14.700	1829	1832	1834	VV	921	15108	0.15%	0.018%
201	14.729	1834	1836	1839	VV	709	12027	0.12%	0.015%
202	14.765	1839	1841	1843	VV 2	755	7287	0.07%	0.009%
203	14.786	1843	1844	1856	VV 2	627	21459	0.21%	0.026%
204	14.886	1856	1858	1860	VV	692	7662	0.08%	0.009%
205	14.915	1860	1862	1869	VV	633	16857	0.17%	0.020%
206	14.979	1869	1871	1876	VV 2	642	12876	0.13%	0.016%
207	15.058	1876	1882	1885	VV 2	684	17611	0.17%	0.021%
208	15.130	1885	1892	1895	VV 2	643	19399	0.19%	0.024%
209	15.209	1895	1903	1906	VV 2	689	16505	0.16%	0.020%
210	15.244	1906	1908	1911	VV	750	9392	0.09%	0.011%
211	15.309	1911	1917	1925	VV 2	629	25545	0.25%	0.031%
212	15.381	1925	1927	1931	VV	957	14449	0.14%	0.018%
213	15.416	1931	1932	1938	VV 2	448	11631	0.11%	0.014%
214	15.509	1938	1945	1947	VV 2	539	15553	0.15%	0.019%
215	15.560	1947	1952	1954	VV 2	825	14062	0.14%	0.017%
216	15.581	1954	1955	1957	VV 2	644	5881	0.06%	0.007%
217	15.646	1957	1964	1969	VV 2	625	22550	0.22%	0.027%
218	15.703	1969	1972	1976	VV 2	616	13018	0.13%	0.016%
219	15.739	1976	1977	1984	VV 2	485	14081	0.14%	0.017%
220	15.803	1984	1986	1989	VV 2	627	10509	0.10%	0.013%
221	15.846	1989	1992	1998	VV 2	739	15644	0.15%	0.019%
222	15.911	1998	2001	2003	VV	387	6846	0.07%	0.008%
223	15.939	2003	2005	2007	VV	467	6151	0.06%	0.007%
224	15.961	2007	2008	2010	VV	539	3773	0.04%	0.005%
225	16.047	2010	2020	2034	VV	71490	1967396	19.33%	2.387%
226	16.161	2034	2036	2038	VV 2	590	8935	0.09%	0.011%
227	16.190	2038	2040	2051	VV 2	656	26674	0.26%	0.032%
228	16.290	2051	2054	2058	VV	734	13243	0.13%	0.016%
229	16.333	2058	2060	2063	VV 2	438	7268	0.07%	0.009%
230	16.398	2063	2069	2074	VV 2	599	20160	0.20%	0.024%
231	16.441	2074	2075	2076	VV	482	5075	0.05%	0.006%
232	16.462	2076	2078	2080	VV 2	616	6031	0.06%	0.007%
233	16.527	2080	2087	2090	VV	888	19540	0.19%	0.024%
234	16.577	2090	2094	2095	VV 2	474	8058	0.08%	0.010%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.613	2095	2099	2103	VV 2	578	11364	0.11%	0.014%
236	16.656	2103	2105	2106	VV 2	518	5006	0.05%	0.006%
237	16.677	2106	2108	2110	VV	640	6309	0.06%	0.008%
238	16.706	2110	2112	2114	VV 2	647	8356	0.08%	0.010%
239	16.741	2114	2117	2123	VV 2	839	20466	0.20%	0.025%
240	16.820	2123	2128	2130	VV	569	12115	0.12%	0.015%
241	16.856	2130	2133	2136	VV	563	11447	0.11%	0.014%
242	16.885	2136	2137	2139	VV 2	713	6749	0.07%	0.008%
243	16.921	2139	2142	2145	VV 2	563	8999	0.09%	0.011%
244	16.956	2145	2147	2149	VV 2	376	3105	0.03%	0.004%
245	16.992	2149	2152	2153	VV	576	6896	0.07%	0.008%
246	17.035	2153	2158	2161	VV	567	11691	0.11%	0.014%
247	17.071	2161	2163	2165	VV	500	5646	0.06%	0.007%
248	17.107	2165	2168	2170	VV	743	9428	0.09%	0.011%
249	17.143	2170	2173	2183	VV 2	493	20677	0.20%	0.025%
250	17.229	2183	2185	2187	VV	495	4535	0.04%	0.006%
251	17.257	2187	2189	2190	VV	728	6643	0.07%	0.008%
252	17.272	2190	2191	2196	VV 2	618	11892	0.12%	0.014%
253	17.322	2196	2198	2200	VV	570	7420	0.07%	0.009%
254	17.379	2200	2206	2215	VV 2	532	23949	0.24%	0.029%
255	17.451	2215	2216	2221	VV 2	540	10948	0.11%	0.013%
256	17.501	2221	2223	2225	VV	631	6811	0.07%	0.008%
257	17.529	2225	2227	2230	VV 2	569	10912	0.11%	0.013%
258	17.572	2230	2233	2236	VV 2	1007	13723	0.13%	0.017%
259	17.651	2236	2244	2254	VV	77351	1966939	19.32%	2.387%
260	17.730	2254	2255	2265	VV 2	801	23866	0.23%	0.029%
261	17.816	2265	2267	2273	VV 2	734	14293	0.14%	0.017%
262	17.880	2273	2276	2282	PV 2	785	16891	0.17%	0.020%
263	17.959	2282	2287	2292	VV 2	707	15537	0.15%	0.019%
264	18.009	2292	2294	2304	VV 2	525	20803	0.20%	0.025%
265	18.124	2304	2310	2313	VV 2	752	17324	0.17%	0.021%
266	18.167	2313	2316	2330	VV 2	820	31327	0.31%	0.038%
267	18.282	2330	2332	2334	VV 2	713	8324	0.08%	0.010%
268	18.303	2334	2335	2342	VV 2	503	13272	0.13%	0.016%
269	18.418	2342	2351	2365	VV	214751	5602028	55.03%	6.798%
270	18.532	2365	2367	2369	VV 2	854	10053	0.10%	0.012%
271	18.561	2369	2371	2372	VV	692	5986	0.06%	0.007%
272	18.597	2372	2376	2379	VV 2	960	17125	0.17%	0.021%
273	18.661	2379	2385	2392	VV 2	665	24494	0.24%	0.030%
274	18.769	2395	2400	2403	VV 2	711	16039	0.16%	0.019%
275	18.812	2403	2406	2408	VV 2	645	11537	0.11%	0.014%
276	18.855	2408	2412	2416	VV	748	17635	0.17%	0.021%
277	18.941	2416	2424	2427	VV 2	665	20795	0.20%	0.025%
278	18.976	2427	2429	2433	VV	554	10114	0.10%	0.012%
279	19.077	2433	2443	2446	VV 2	758	23812	0.23%	0.029%
280	19.112	2446	2448	2451	VV	750	9234	0.09%	0.011%
281	19.148	2451	2453	2458	VV 2	652	12954	0.13%	0.016%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	19.198	2458	2460	2473	VV	2	941	33606	0.33%	0.041%
283	19.349	2473	2481	2485	VV	2	693	26022	0.26%	0.032%
284	19.449	2485	2495	2502	VV	2	631	30599	0.30%	0.037%
285	19.521	2502	2505	2507	VV	2	621	9713	0.10%	0.012%
286	19.557	2507	2510	2514	VV		745	14498	0.14%	0.018%
287	19.600	2514	2516	2519	VV		690	9961	0.10%	0.012%
288	19.643	2519	2522	2536	VV	2	961	33681	0.33%	0.041%
289	19.750	2536	2537	2539	VV		606	6581	0.06%	0.008%
290	19.779	2539	2541	2543	VV	2	968	9381	0.09%	0.011%
291	19.800	2543	2544	2546	VV		610	6917	0.07%	0.008%
292	19.836	2546	2549	2550	VV		616	9127	0.09%	0.011%
293	19.865	2550	2553	2559	VV	2	794	16708	0.16%	0.020%
294	19.958	2559	2566	2570	VV		668	19107	0.19%	0.023%
295	20.037	2570	2577	2582	VV		819	21338	0.21%	0.026%
296	20.087	2582	2584	2588	VV	2	596	13027	0.13%	0.016%
297	20.144	2588	2592	2598	VV	2	541	18252	0.18%	0.022%
298	20.251	2598	2607	2611	VV	2	898	22883	0.22%	0.028%
299	20.294	2611	2613	2617	VV	2	496	9022	0.09%	0.011%
300	20.337	2617	2619	2624	VV	2	758	17573	0.17%	0.021%
301	20.380	2624	2625	2628	VV		642	7113	0.07%	0.009%
302	20.423	2628	2631	2634	VV	2	638	10180	0.10%	0.012%
303	20.466	2634	2637	2639	VV		627	8452	0.08%	0.010%
304	20.495	2639	2641	2643	VV		628	7586	0.07%	0.009%
305	20.524	2643	2645	2653	VV	2	643	18608	0.18%	0.023%
306	20.588	2653	2654	2666	VV	2	601	25331	0.25%	0.031%
307	20.681	2666	2667	2673	VV	2	694	12429	0.12%	0.015%
308	20.760	2673	2678	2685	VV		437	18757	0.18%	0.023%
309	20.824	2685	2687	2690	VV		591	9082	0.09%	0.011%
310	20.860	2690	2692	2696	VV		739	10462	0.10%	0.013%
311	20.903	2696	2698	2704	VV		597	16688	0.16%	0.020%
312	20.961	2704	2706	2710	VV		709	14357	0.14%	0.017%
313	21.004	2710	2712	2713	VV	2	711	6839	0.07%	0.008%
314	21.032	2713	2716	2718	VV		765	10710	0.11%	0.013%
315	21.075	2718	2722	2724	VV		939	15308	0.15%	0.019%
316	21.104	2724	2726	2733	VV	2	684	18124	0.18%	0.022%
317	21.183	2733	2737	2741	VV		771	18893	0.19%	0.023%
318	21.233	2741	2744	2746	VV	2	556	8949	0.09%	0.011%
319	21.276	2746	2750	2754	VV	2	719	14047	0.14%	0.017%
320	21.326	2754	2757	2761	VV	2	617	13251	0.13%	0.016%
321	21.369	2761	2763	2768	VV	2	583	13205	0.13%	0.016%
322	21.426	2768	2771	2773	VV	2	583	10011	0.10%	0.012%
323	21.455	2773	2775	2779	VV	2	581	11158	0.11%	0.014%
324	21.505	2779	2782	2785	VV	2	657	11721	0.12%	0.014%
325	21.534	2785	2786	2788	VV	2	552	4455	0.04%	0.005%
326	21.555	2788	2789	2791	VV		841	7978	0.08%	0.010%
327	21.591	2791	2794	2797	VV		672	12002	0.12%	0.015%
328	21.641	2797	2801	2803	VV	2	672	13916	0.14%	0.017%
329	21.670	2803	2805	2814	VV		803	25175	0.25%	0.031%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

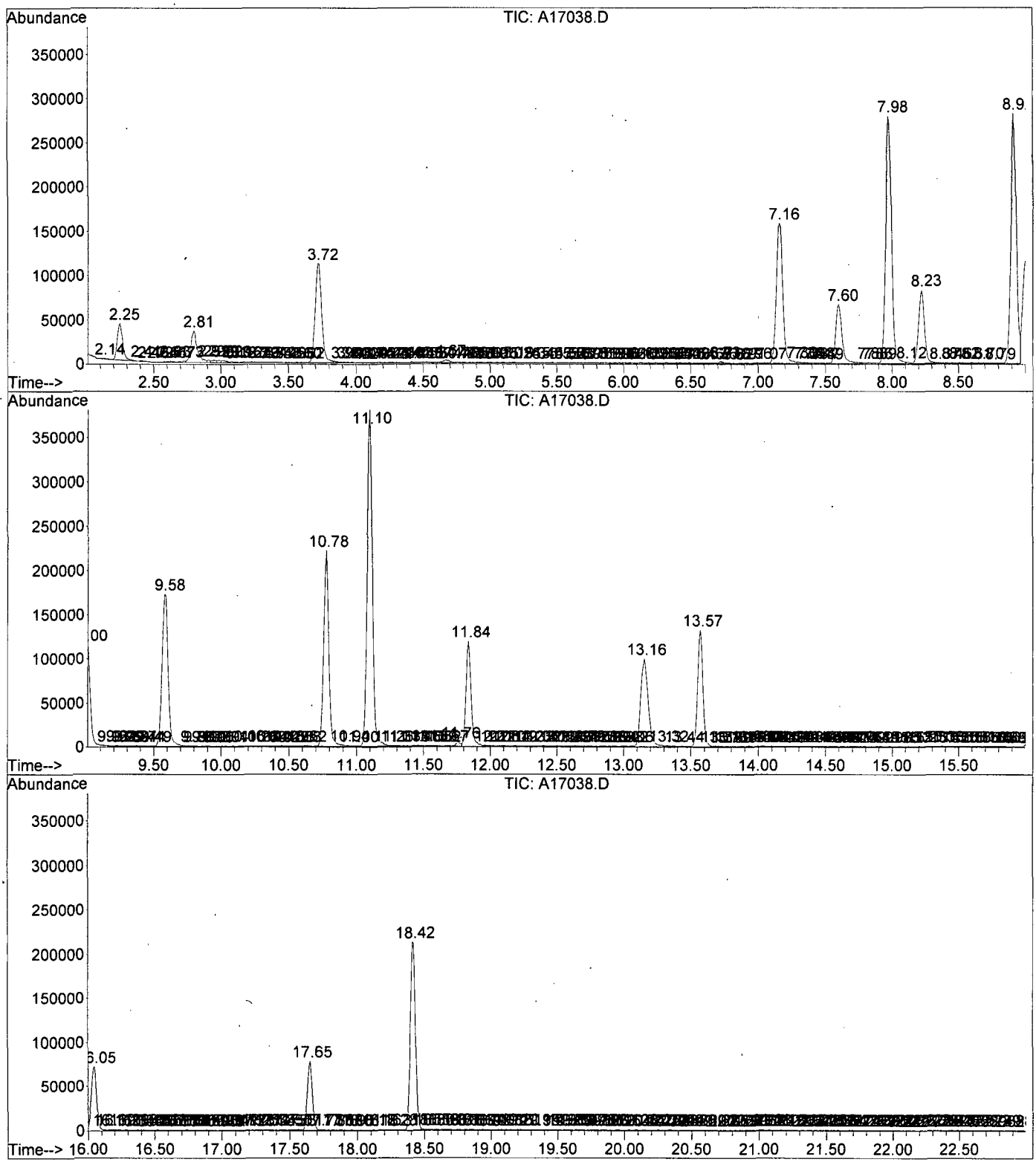
330	21.741	2814	2815	2819	VV	553	9485	0.09%	0.012%
331	21.784	2819	2821	2825	VV 2	722	12795	0.13%	0.016%
332	21.834	2825	2828	2831	VV 2	729	13477	0.13%	0.016%
333	21.892	2831	2836	2838	VV 2	757	15684	0.15%	0.019%
334	21.928	2838	2841	2842	VV	570	6550	0.06%	0.008%
335	21.949	2842	2844	2849	VV 2	662	16588	0.16%	0.020%
336	22.014	2849	2853	2855	VV 2	579	11082	0.11%	0.013%
337	22.042	2855	2857	2860	VV 2	574	8956	0.09%	0.011%
338	22.078	2860	2862	2871	VV 2	654	21582	0.21%	0.026%
339	22.157	2871	2873	2876	VV	705	9406	0.09%	0.011%
340	22.193	2876	2878	2879	PV	352	3461	0.03%	0.004%
341	22.214	2879	2881	2884	VV	634	8047	0.08%	0.010%
342	22.279	2884	2890	2893	VV 2	673	14645	0.14%	0.018%
343	22.314	2893	2895	2897	VV 2	613	6883	0.07%	0.008%
344	22.336	2897	2898	2900	VV	522	6797	0.07%	0.008%
345	22.357	2900	2901	2909	VV 2	500	11237	0.11%	0.014%
346	22.443	2909	2913	2917	PV 2	636	11775	0.12%	0.014%
347	22.486	2917	2919	2921	VV 2	593	6942	0.07%	0.008%
348	22.522	2921	2924	2927	VV	496	7701	0.08%	0.009%
349	22.558	2927	2929	2933	VV	455	8576	0.08%	0.010%
350	22.601	2933	2935	2942	VV 2	504	12271	0.12%	0.015%
351	22.687	2942	2947	2948	VV	360	5308	0.05%	0.006%
352	22.737	2948	2954	2956	VV 2	637	14949	0.15%	0.018%
353	22.794	2956	2962	2964	VV 2	616	12199	0.12%	0.015%
354	22.823	2964	2966	2968	VV	246	2586	0.03%	0.003%
355	22.887	2968	2975	2980	PV 2	492	12781	0.13%	0.016%

Sum of corrected areas: 82407956

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

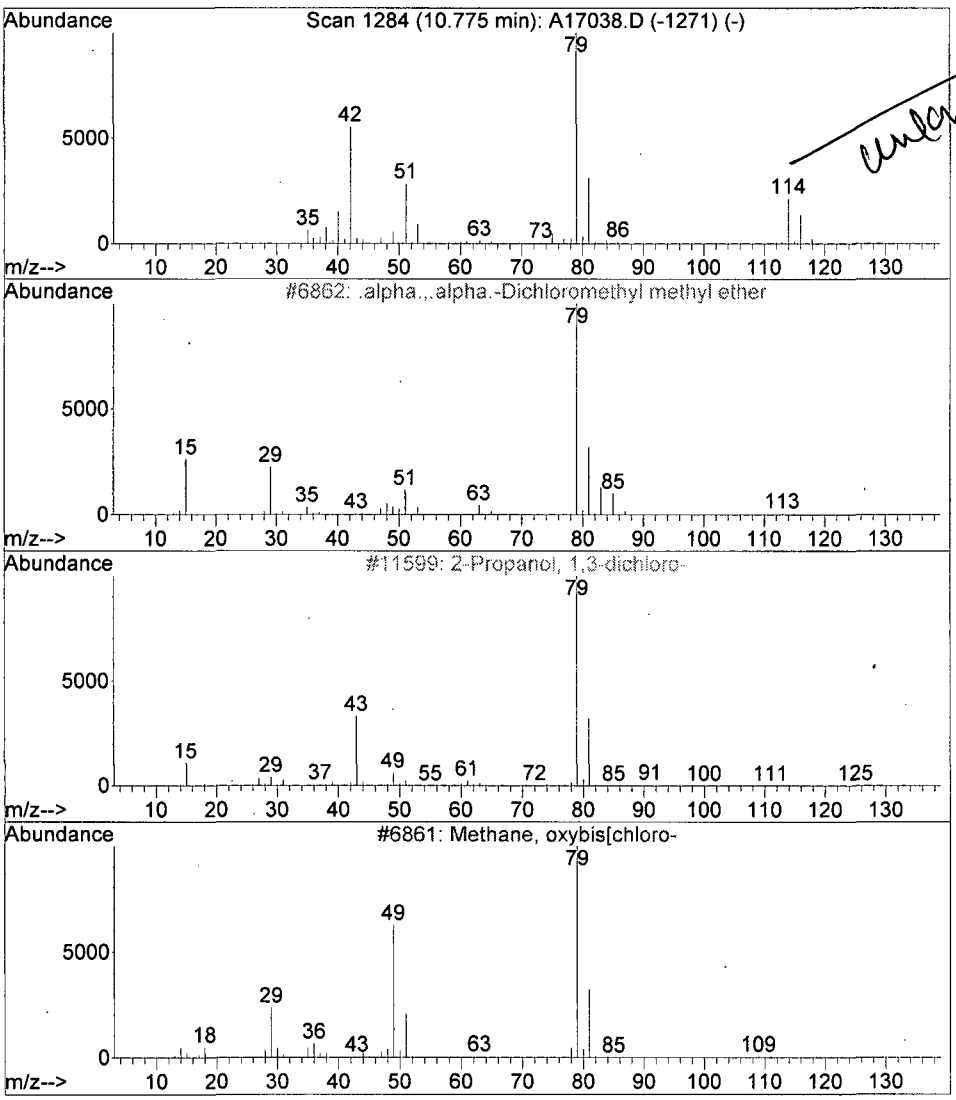
11/28/08

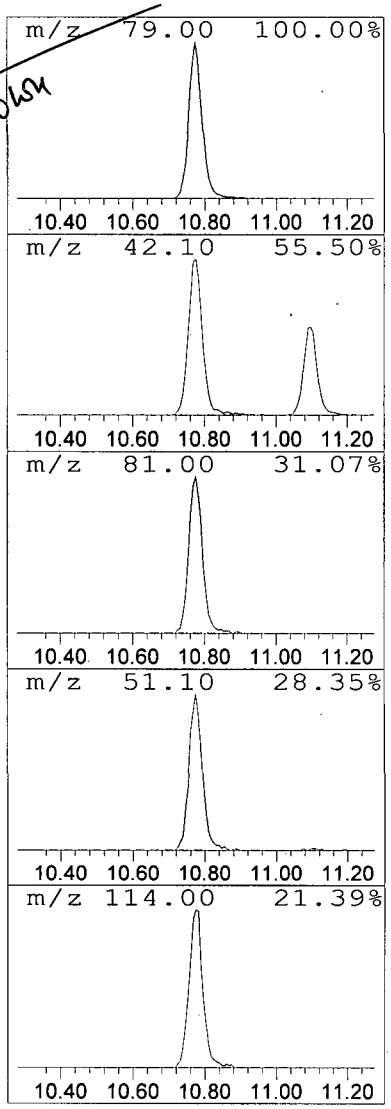
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 .alpha.,.alpha.-Dichloromet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	8.50 ug/L	5835600	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	37
2	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	Carbonothioic dichloride	114	CCl2S	000463-71-8	10
5	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17038.D
Acq On : 11/27/08 01:22 Operator: SB
Sample : F2XF2DL 4X Inst : A-5973
Misc : S-2066.08DL 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.,.alpha.-D...	10.78	8.5	ug/L	5835600	1	9.00	3433630	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.09

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19518

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.09

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19518

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	42	E
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.44	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.09

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19518

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	110	JB
02	000556-67-2	Cyclotetrasiloxane, octamethy	14.97	3.1	NJ
03		Unknown-02	18.41	1.2	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

11/28/08

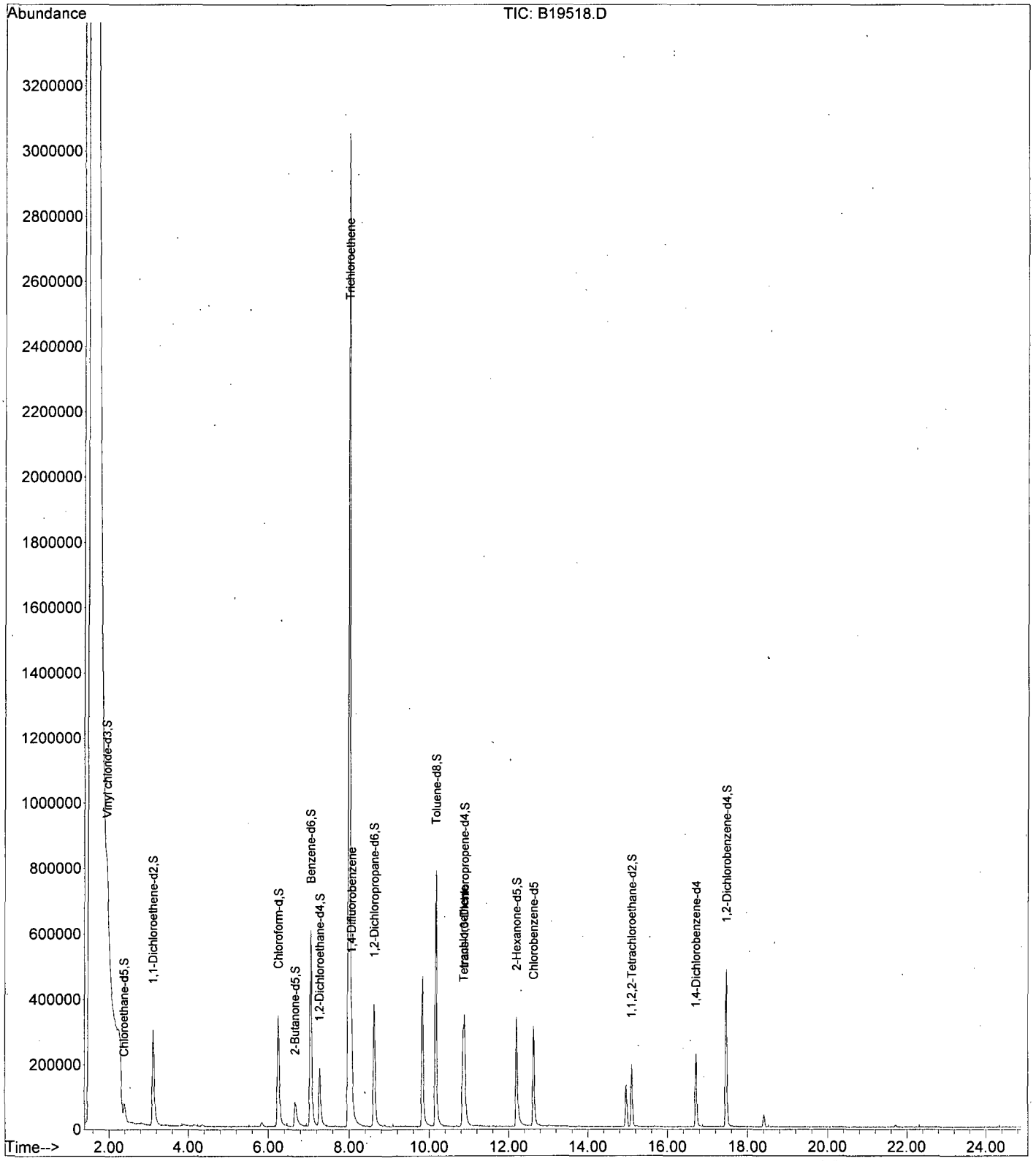
Quant Time: Nov 28 14:40:10 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	3412429	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	2573229	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	916468	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2457421	5.06	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 101.20%			
7) Chloroethane-d5	2.39	69	1137648	5.17	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 103.40%			
10) 1,1-Dichloroethene-d2	3.12	63	3945306	4.04	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 80.80%			
21) 2-Butanone-d5	6.67	46	2128361m	41.74	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 83.48%			
24) Chloroform-d	6.25	84	4480416	4.65	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 93.00%			
26) 1,2-Dichloroethane-d4	7.28	65	2216377	5.10	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 102.00%			
32) Benzene-d6	7.06	84	8944378	5.44	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 108.80%			
36) 1,2-Dichloropropane-d6	8.63	67	2671314	5.37	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 107.40%			
41) Toluene-d8	10.17	98	7695393	5.17	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 103.40%			
43) trans-1,3-Dichloropropene-	10.90	79	2362291	5.15	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 103.00%			
47) 2-Hexanone-d5	12.20	63	1406319	44.84	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 89.68%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1437798	5.23	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 104.60%			
63) 1,2-Dichlorobenzene-d4	17.47	152	1974254	5.51	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 110.20%			
Target Compounds						Qvalue
34) Trichloroethene	8.00	95	16099115	41.97	ug/L	99
46) Tetrachloroethene	10.86	164	150490	0.44	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

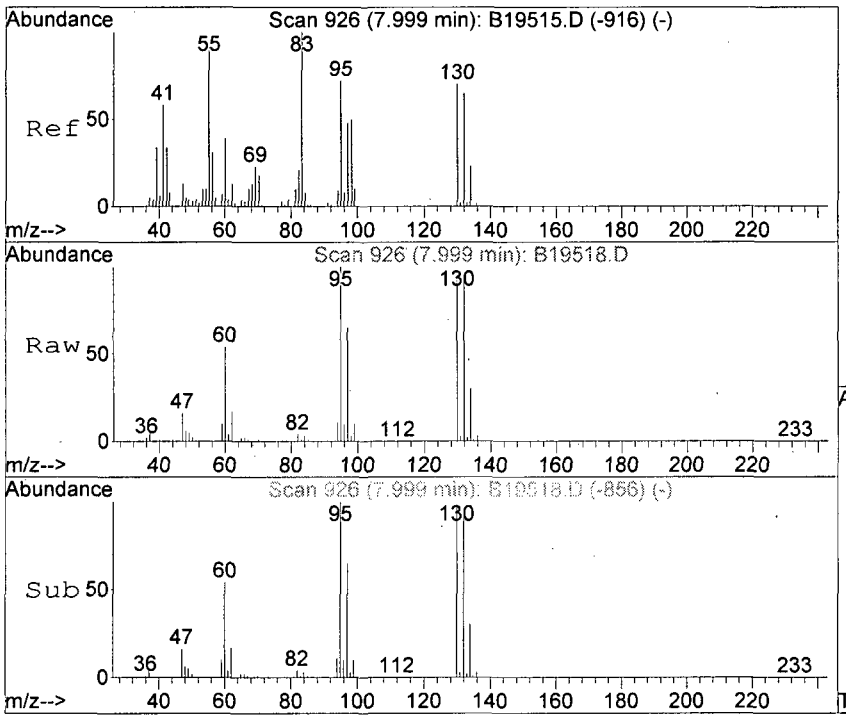
Data File: C:\MSDChem\1\DATA\B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 14:40:10 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration



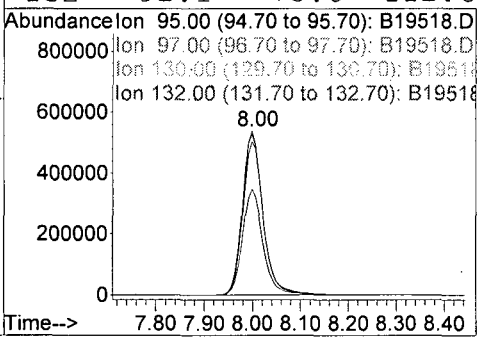
Data File : C:\MSDChem\1\DATA\B19518.D
Acq On : 11/26/08 10:09
Sample : F2XF3
Misc : S-2066.09 25ML
MS Integration Params: LSCINT.E

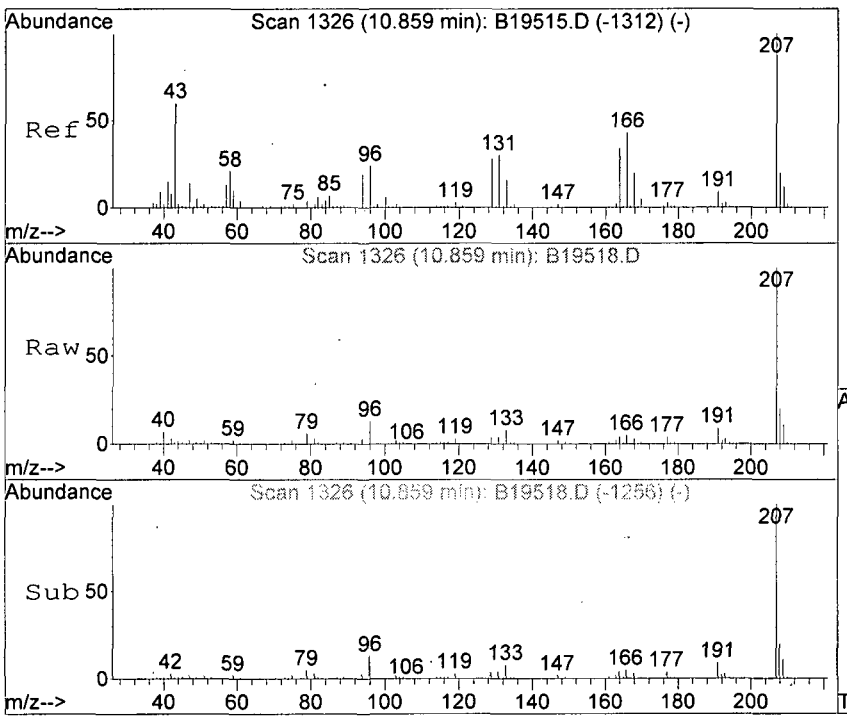
Vial: 4
Operator: SB
Inst : B-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 41.97 ug/L
RT: 8.00 min Scan# 926
Delta R.T. -0.00 min
Integration Range:
Scan=911 to 963
R.T.= 7.89 to 8.26 (min)
Tgt Ion: 95 Resp:16099115

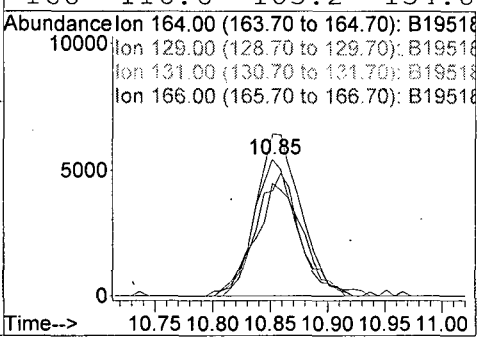
Ion	Ratio	Lower	Upper
95	100		
97	63.8	51.2	76.8
130	97.3	77.5	116.3
132	92.1	75.0	112.6





#46
Tetrachloroethene
Concen: 0.44 ug/L
RT: 10.86 min Scan# 1326
Delta R.T. -0.00 min
Integration Range:
Scan=1316 to 1338
R.T.= 10.79 to 10.94 (min)
Tgt Ion:164 Resp: 150490

Ion	Ratio	Lower	Upper
164	100		
129	84.0	71.8	107.8
131	81.6	68.6	103.0
166	116.6	103.2	154.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.557	3	25	117	BV	17363815	2094255489	100.00%	84.867%
2	2.222	117	118	121	VV 2	293890	4952923	0.24%	0.201%
3	2.250	121	122	137	VV	292327	13514524	0.65%	0.548%
4	2.393	137	142	157	VV 2	66001	2837728	0.14%	0.115%
5	2.508	157	158	166	VV 7	8331	304689	0.01%	0.012%
6	2.579	166	168	184	VV 6	7749	404179	0.02%	0.016%
7	2.722	184	188	195	VV 5	5592	211291	0.01%	0.009%
8	2.779	195	196	200	VV 4	5794	102608	0.00%	0.004%
9	2.822	200	202	205	VV 3	7493	124126	0.01%	0.005%
10	2.858	205	207	209	VV 3	5940	92828	0.00%	0.004%
11	2.879	209	210	213	VV 3	4278	64125	0.00%	0.003%
12	2.915	213	215	218	VV 4	2724	44451	0.00%	0.002%
13	2.951	218	220	224	VV 3	3076	42913	0.00%	0.002%
14	2.987	224	225	229	VV 3	1243	27586	0.00%	0.001%
15	3.044	229	233	235	VV 2	2192	29784	0.00%	0.001%
16	3.123	235	244	271	VV	289263	10836007	0.52%	0.439%
17	3.359	271	277	280	VV 5	2602	72000	0.00%	0.003%
18	3.394	280	282	284	VV 3	2541	23987	0.00%	0.001%
19	3.430	284	287	288	VV 2	4433	57572	0.00%	0.002%
20	3.451	288	290	292	VV 2	4673	44802	0.00%	0.002%
21	3.480	292	294	303	VV 4	2785	73149	0.00%	0.003%
22	3.559	303	305	307	VV 3	1985	17395	0.00%	0.001%
23	3.580	307	308	311	VV	984	9503	0.00%	0.000%
24	3.623	311	314	322	PV 2	1252	39136	0.00%	0.002%
25	3.709	322	326	329	VV 3	1496	26426	0.00%	0.001%
26	3.745	329	331	334	VV 3	1059	14540	0.00%	0.001%
27	3.780	334	336	338	VV 3	1634	18262	0.00%	0.001%
28	3.845	338	345	346	VV	8232	77146	0.00%	0.003%
29	3.881	346	350	357	VV 4	6624	213496	0.01%	0.009%
30	3.945	357	359	361	VV 3	3689	49809	0.00%	0.002%
31	3.973	361	363	365	VV 3	4260	49045	0.00%	0.002%
32	4.002	365	367	370	VV	3978	64021	0.00%	0.003%
33	4.031	370	371	378	VV 2	2542	62281	0.00%	0.003%
34	4.145	378	387	393	VV 5	5245	202748	0.01%	0.008%
35	4.202	393	395	399	VV 2	2963	54262	0.00%	0.002%
36	4.238	399	400	402	VV	6578	41749	0.00%	0.002%
37	4.295	402	408	411	VV 3	2941	80924	0.00%	0.003%
38	4.352	411	416	435	VV 6	6490	354258	0.02%	0.014%
39	4.503	435	437	439	VV 2	1822	28374	0.00%	0.001%
40	4.553	439	444	446	VV 2	2901	69062	0.00%	0.003%
41	4.596	446	450	452	VV 2	2624	49402	0.00%	0.002%
42	4.660	452	459	466	VV 2	3091	120502	0.01%	0.005%
43	4.724	466	468	472	VV 3	2772	58063	0.00%	0.002%
44	4.767	472	474	475	VV	3168	32346	0.00%	0.001%

0261

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.803	475	479	483	VV	3	3131	84157	0.00%	0.003%
46	4.882	483	490	494	VV	2	3720	112504	0.01%	0.005%
47	4.917	494	495	497	VV		2497	29878	0.00%	0.001%
48	4.960	497	501	505	VV	2	3880	90607	0.00%	0.004%
49	5.003	505	507	518	VV	3	2662	128546	0.01%	0.005%
50	5.110	518	522	525	PV	3	3140	75829	0.00%	0.003%
51	5.153	525	528	531	VV	2	3271	64616	0.00%	0.003%
52	5.189	531	533	535	VV		2788	43438	0.00%	0.002%
53	5.218	535	537	541	VV	2	2571	61878	0.00%	0.003%
54	5.261	541	543	548	VV	2	3455	80237	0.00%	0.003%
55	5.318	548	551	553	VV	2	3108	57072	0.00%	0.002%
56	5.346	553	555	558	VV	2	3785	73452	0.00%	0.003%
57	5.382	558	560	563	VV		3192	51639	0.00%	0.002%
58	5.411	563	564	574	VV	2	3316	129466	0.01%	0.005%
59	5.496	574	576	582	VV		3383	98292	0.00%	0.004%
60	5.554	582	584	586	VV		3565	50556	0.00%	0.002%
61	5.611	586	592	594	VV	3	3193	97230	0.00%	0.004%
62	5.639	594	596	598	VV	2	3082	43399	0.00%	0.002%
63	5.690	598	603	611	VV	3	4302	174782	0.01%	0.007%
64	5.840	611	624	635	VV	7	14318	708989	0.03%	0.029%
65	5.933	635	637	639	VV	3	3168	53341	0.00%	0.002%
66	5.961	639	641	644	VV	2	3013	52186	0.00%	0.002%
67	5.997	644	646	651	VV		4304	87152	0.00%	0.004%
68	6.040	651	652	656	VV	2	3629	66594	0.00%	0.003%
69	6.090	656	659	663	VV	3	3880	100592	0.00%	0.004%
70	6.126	663	664	666	VV	2	3855	40616	0.00%	0.002%
71	6.161	666	669	671	VV	2	4425	73814	0.00%	0.003%
72	6.254	671	682	706	VV		342321	12931281	0.62%	0.524%
73	6.440	706	708	710	VV	3	7040	87234	0.00%	0.004%
74	6.462	710	711	717	VV		11762	181019	0.01%	0.007%
75	6.519	717	719	724	VV		4572	121988	0.01%	0.005%
76	6.576	724	727	729	VV	2	4205	65632	0.00%	0.003%
77	6.669	729	740	766	VV	2	80997	4233145	0.20%	0.172%
78	6.862	766	767	770	VV	2	8244	131157	0.01%	0.005%
79	6.898	770	772	774	VV	2	6787	90214	0.00%	0.004%
80	6.941	774	778	782	VV		12766	233421	0.01%	0.009%
81	7.062	782	795	815	VV		600982	20305739	0.97%	0.823%
82	7.277	815	825	848	VV		182926	7052402	0.34%	0.286%
83	7.456	848	850	855	VV		8625	185002	0.01%	0.007%
84	7.534	855	861	863	VV	5	5583	172969	0.01%	0.007%
85	7.563	863	865	868	VV	2	5565	100506	0.00%	0.004%
86	7.599	868	870	872	VV	2	5099	76446	0.00%	0.003%
87	7.663	872	879	885	VV	4	6020	276522	0.01%	0.011%
88	7.720	885	887	890	VV	3	4915	98446	0.00%	0.004%
89	7.756	890	892	896	VV	3	5198	115623	0.01%	0.005%
90	7.799	896	898	903	VV	2	4209	110222	0.01%	0.004%
91	7.870	903	908	910	VV	3	4705	115758	0.01%	0.005%

0262

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.899	910	912	914	VV 2	4492	76137	0.00%	0.003%
93	7.999	914	926	957	VV 2	3018849	99666241	4.76%	4.039%
94	8.228	957	958	974	VV 6	14841	777340	0.04%	0.032%
95	8.349	974	975	977	VV 2	6860	87133	0.00%	0.004%
96	8.378	977	979	984	VV 3	6605	169364	0.01%	0.007%
97	8.435	984	987	989	VV 2	6371	113445	0.01%	0.005%
98	8.457	989	990	993	VV	6494	94088	0.00%	0.004%
99	8.492	993	995	998	VV	6300	109535	0.01%	0.004%
100	8.528	998	1000	1001	VV	6327	57186	0.00%	0.002%
101	8.635	1001	1015	1044	VV 2	377726	13016093	0.62%	0.527%
102	8.886	1044	1050	1060	VV 4	9966	492491	0.02%	0.020%
103	8.986	1060	1064	1072	VV 3	5913	254477	0.01%	0.010%
104	9.093	1072	1079	1087	VV	11996	326548	0.02%	0.013%
105	9.179	1087	1091	1095	VV 4	5558	154686	0.01%	0.006%
106	9.222	1095	1097	1101	VV 2	5072	124806	0.01%	0.005%
107	9.265	1101	1103	1104	VV	5265	70731	0.00%	0.003%
108	9.293	1104	1107	1110	VV 3	6331	117508	0.01%	0.005%
109	9.322	1110	1111	1116	VV 3	4989	134273	0.01%	0.005%
110	9.408	1116	1123	1125	VV 3	6987	200452	0.01%	0.008%
111	9.458	1125	1130	1135	VV 4	5832	215164	0.01%	0.009%
112	9.551	1135	1143	1146	VV 2	5510	214797	0.01%	0.009%
113	9.594	1146	1149	1150	VV 2	5229	93738	0.00%	0.004%
114	9.615	1150	1152	1157	VV	4902	113136	0.01%	0.005%
115	9.694	1157	1163	1165	VV 2	5979	180016	0.01%	0.007%
116	9.737	1165	1169	1173	VV	5576	156239	0.01%	0.006%
117	9.837	1173	1183	1213	VV	462898	14254036	0.68%	0.578%
118	10.080	1213	1217	1220	VV 3	7762	204411	0.01%	0.008%
119	10.173	1220	1230	1256	VV	785356	22303696	1.06%	0.904%
120	10.380	1256	1259	1262	VV 3	7036	147679	0.01%	0.006%
121	10.409	1262	1263	1272	VV 3	7239	281956	0.01%	0.011%
122	10.487	1272	1274	1276	VV 2	6597	90919	0.00%	0.004%
123	10.523	1276	1279	1282	VV 3	6200	154442	0.01%	0.006%
124	10.580	1282	1287	1290	VV 2	6476	176148	0.01%	0.007%
125	10.616	1290	1292	1294	VV	5566	73610	0.00%	0.003%
126	10.645	1294	1296	1297	VV 2	5590	70061	0.00%	0.003%
127	10.673	1297	1300	1302	VV	6338	107810	0.01%	0.004%
128	10.695	1302	1303	1306	VV	7135	103054	0.00%	0.004%
129	10.723	1306	1307	1312	VV	5664	126853	0.01%	0.005%
130	10.888	1312	1330	1350	VV 2	344542	17815029	0.85%	0.722%
131	11.038	1350	1351	1354	VV 3	9500	156378	0.01%	0.006%
132	11.081	1354	1357	1362	VV 4	8585	262375	0.01%	0.011%
133	11.145	1362	1366	1370	VV 3	8123	244958	0.01%	0.010%
134	11.195	1370	1373	1383	VV 5	7989	413868	0.02%	0.017%
135	11.288	1383	1386	1396	VV 3	7859	336585	0.02%	0.014%
136	11.374	1396	1398	1399	VV	6103	81349	0.00%	0.003%
137	11.395	1399	1401	1404	VV 2	6841	133128	0.01%	0.005%
138	11.431	1404	1406	1407	VV 2	5856	82877	0.00%	0.003%
139	11.453	1407	1409	1414	VV 2	6134	159642	0.01%	0.006%

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.503	1414	1416	1425	VV	2	6980	281376	0.01%	0.011%
141	11.574	1425	1426	1428	VV		6289	80093	0.00%	0.003%
142	11.624	1428	1433	1444	VV	3	6945	392455	0.02%	0.016%
143	11.724	1444	1447	1453	VV	2	6397	233151	0.01%	0.009%
144	11.789	1453	1456	1458	VV	2	6769	129835	0.01%	0.005%
145	11.810	1458	1459	1464	VV	2	6085	150419	0.01%	0.006%
146	11.867	1464	1467	1469	VV	2	5987	110597	0.01%	0.004%
147	11.889	1469	1470	1476	VV	2	6035	159617	0.01%	0.006%
148	11.939	1476	1477	1482	VV	2	6178	164491	0.01%	0.007%
149	11.996	1482	1485	1488	VV	2	6205	126518	0.01%	0.005%
150	12.039	1488	1491	1494	VV	2	5998	155925	0.01%	0.006%
151	12.082	1494	1497	1502	VV	3	6722	208863	0.01%	0.008%
152	12.132	1502	1504	1506	VV	2	5818	97756	0.00%	0.004%
153	12.203	1506	1514	1541	VV	2	337121	11357616	0.54%	0.460%
154	12.411	1541	1543	1545	VV	3	11280	190359	0.01%	0.008%
155	12.439	1545	1547	1551	VV	3	9830	196569	0.01%	0.008%
156	12.475	1551	1552	1556	VV	3	8807	181126	0.01%	0.007%
157	12.511	1556	1557	1565	VV	5	8660	333538	0.02%	0.014%
158	12.632	1565	1574	1582	VV		310512	8706001	0.42%	0.353%
159	12.697	1582	1583	1591	VV		24810	553027	0.03%	0.022%
160	12.768	1591	1593	1597	VV	4	11515	256385	0.01%	0.010%
161	12.811	1597	1599	1601	VV	2	8516	118466	0.01%	0.005%
162	12.840	1601	1603	1608	VV	3	7695	215663	0.01%	0.009%
163	12.890	1608	1610	1614	VV	2	7518	189003	0.01%	0.008%
164	12.926	1614	1615	1621	VV	3	7652	201289	0.01%	0.008%
165	12.976	1621	1622	1624	VV		7310	92301	0.00%	0.004%
166	13.019	1624	1628	1636	VV	4	9291	409354	0.02%	0.017%
167	13.090	1636	1638	1640	VV	2	7546	125335	0.01%	0.005%
168	13.126	1640	1643	1645	VV	3	7503	135411	0.01%	0.005%
169	13.154	1645	1647	1650	VV	3	7779	143142	0.01%	0.006%
170	13.183	1650	1651	1653	VV		6934	86520	0.00%	0.004%
171	13.204	1653	1654	1656	VV		7400	101888	0.00%	0.004%
172	13.233	1656	1658	1660	VV	2	7129	119225	0.01%	0.005%
173	13.283	1660	1665	1672	VV	3	6998	331063	0.02%	0.013%
174	13.362	1672	1676	1677	VV	2	6654	141240	0.01%	0.006%
175	13.383	1677	1679	1681	VV	2	7146	115773	0.01%	0.005%
176	13.419	1681	1684	1686	VV	3	7720	134508	0.01%	0.005%
177	13.448	1686	1688	1690	VV	2	7414	99836	0.00%	0.004%
178	13.469	1690	1691	1696	VV	2	7409	192270	0.01%	0.008%
179	13.533	1696	1700	1702	VV	2	6907	140408	0.01%	0.006%
180	13.562	1702	1704	1710	VV	2	6989	229821	0.01%	0.009%
181	13.612	1710	1711	1722	VV	2	6903	342963	0.02%	0.014%
182	13.734	1722	1728	1731	VV	3	7981	243222	0.01%	0.010%
183	13.791	1731	1736	1739	VV	3	8239	254481	0.01%	0.010%
184	13.826	1739	1741	1744	VV	2	7309	152335	0.01%	0.006%
185	13.862	1744	1746	1748	VV	2	7100	92182	0.00%	0.004%
186	13.884	1748	1749	1759	VV	3	7273	307590	0.01%	0.012%

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	13.984	1759	1763	1767	VV 3	7018	233184	0.01%	0.009%
188	14.027	1767	1769	1770	VV	6493	79072	0.00%	0.003%
189	14.077	1770	1776	1779	VV 3	7328	249871	0.01%	0.010%
190	14.113	1779	1781	1783	VV	7178	105408	0.01%	0.004%
191	14.141	1783	1785	1787	VV 2	6673	101421	0.00%	0.004%
192	14.163	1787	1788	1790	VV 2	6420	91981	0.00%	0.004%
193	14.205	1790	1794	1796	VV 2	7248	172457	0.01%	0.007%
194	14.291	1796	1806	1813	VV 4	7646	478137	0.02%	0.019%
195	14.348	1813	1814	1823	VV 2	7073	295026	0.01%	0.012%
196	14.434	1823	1826	1832	VV 2	6767	224065	0.01%	0.009%
197	14.499	1832	1835	1840	VV 2	7454	235956	0.01%	0.010%
198	14.584	1840	1847	1850	VV	7215	280431	0.01%	0.011%
199	14.642	1850	1855	1860	VV	7078	263868	0.01%	0.011%
200	14.720	1860	1866	1868	VV 2	7261	224713	0.01%	0.009%
201	14.756	1868	1871	1875	VV 2	6737	209780	0.01%	0.009%
202	14.813	1875	1879	1881	VV 2	7127	162253	0.01%	0.007%
203	14.870	1881	1887	1890	VV 3	7731	246451	0.01%	0.010%
204	14.971	1890	1901	1912	VV	135150	4298997	0.21%	0.174%
205	15.106	1912	1920	1933	VV,	192729	5593232	0.27%	0.227%
206	15.214	1933	1935	1937	VV 2	8917	134021	0.01%	0.005%
207	15.249	1937	1940	1949	VV 3	8667	388805	0.02%	0.016%
208	15.328	1949	1951	1960	VV 2	7840	334907	0.02%	0.014%
209	15.407	1960	1962	1964	VV 2	7202	109795	0.01%	0.004%
210	15.450	1964	1968	1970	VV 2	7924	175809	0.01%	0.007%
211	15.471	1970	1971	1977	VV 2	7684	212540	0.01%	0.009%
212	15.557	1977	1983	1985	VV 3	7733	221370	0.01%	0.009%
213	15.585	1985	1987	1989	VV 2	7815	130711	0.01%	0.005%
214	15.628	1989	1993	1997	VV 3	7636	230432	0.01%	0.009%
215	15.671	1997	1999	2003	VV 2	7419	174109	0.01%	0.007%
216	15.736	2003	2008	2009	VV 2	7314	193412	0.01%	0.008%
217	15.807	2009	2018	2024	VV 2	7935	459191	0.02%	0.019%
218	15.864	2024	2026	2031	VV 3	7359	196113	0.01%	0.008%
219	15.929	2031	2035	2041	VV 2	7665	291335	0.01%	0.012%
220	15.993	2041	2044	2047	VV 2	7786	157655	0.01%	0.006%
221	16.022	2047	2048	2050	VV	6817	87944	0.00%	0.004%
222	16.079	2050	2056	2061	VV 2	8196	337789	0.02%	0.014%
223	16.122	2061	2062	2064	VV 2	7594	92747	0.00%	0.004%
224	16.143	2064	2065	2068	VV	7732	132865	0.01%	0.005%
225	16.193	2068	2072	2077	VV 2	7815	257482	0.01%	0.010%
226	16.243	2077	2079	2082	VV 2	8450	153973	0.01%	0.006%
227	16.279	2082	2084	2086	VV	8831	143630	0.01%	0.006%
228	16.308	2086	2088	2091	VV 2	8860	184305	0.01%	0.007%
229	16.343	2091	2093	2096	VV 2	7823	135347	0.01%	0.005%
230	16.372	2096	2097	2100	VV 2	7789	151328	0.01%	0.006%
231	16.408	2100	2102	2104	VV	7473	107504	0.01%	0.004%
232	16.465	2104	2110	2113	VV 2	7621	275578	0.01%	0.011%
233	16.501	2113	2115	2121	VV 2	7741	251280	0.01%	0.010%
234	16.586	2121	2127	2134	VV 3	9043	434168	0.02%	0.018%

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.722	2134	2146	2160	VV		232078	6850339	0.33%	0.278%
236	16.830	2160	2161	2170	VV		10210	414663	0.02%	0.017%
237	16.908	2170	2172	2175	VV	2	8689	167758	0.01%	0.007%
238	16.944	2175	2177	2186	VV		8425	352120	0.02%	0.014%
239	17.023	2186	2188	2190	VV	2	8120	129058	0.01%	0.005%
240	17.044	2190	2191	2196	VV		8714	190647	0.01%	0.008%
241	17.123	2196	2202	2204	VV	2	8407	279578	0.01%	0.011%
242	17.144	2204	2205	2212	VV	2	8023	258841	0.01%	0.010%
243	17.216	2212	2215	2221	VV	2	7981	310732	0.01%	0.013%
244	17.273	2221	2223	2225	VV	2	7793	116738	0.01%	0.005%
245	17.330	2225	2231	2234	VV	2	9295	316198	0.02%	0.013%
246	17.387	2234	2239	2240	VV	2	8266	201279	0.01%	0.008%
247	17.473	2240	2251	2266	VV		489866	13558004	0.65%	0.549%
248	17.623	2266	2272	2276	VV	5	9395	349578	0.02%	0.014%
249	17.659	2276	2277	2280	VV	2	8364	167413	0.01%	0.007%
250	17.709	2280	2284	2287	VV	3	9741	252958	0.01%	0.010%
251	17.745	2287	2289	2296	VV	4	8683	278142	0.01%	0.011%
252	17.802	2296	2297	2299	VV	2	7890	111133	0.01%	0.005%
253	17.859	2299	2305	2307	VV	2	8610	279845	0.01%	0.011%
254	17.888	2307	2309	2326	VV	2	9316	638586	0.03%	0.026%
255	18.024	2326	2328	2331	VV	2	8401	186100	0.01%	0.008%
256	18.059	2331	2333	2337	VV	2	8242	184822	0.01%	0.007%
257	18.102	2337	2339	2340	VV		8473	122166	0.01%	0.005%
258	18.131	2340	2343	2352	VV	3	8366	385272	0.02%	0.016%
259	18.210	2352	2354	2357	VV	2	8532	178790	0.01%	0.007%
260	18.252	2357	2360	2363	VV	2	8624	214226	0.01%	0.009%
261	18.288	2363	2365	2366	VV		8491	107357	0.01%	0.004%
262	18.310	2366	2368	2374	VV	3	8646	266791	0.01%	0.011%
263	18.410	2374	2382	2390	VV		46819	1590795	0.08%	0.064%
264	18.488	2390	2393	2396	VV	3	9176	226186	0.01%	0.009%
265	18.524	2396	2398	2400	VV		14180	170252	0.01%	0.007%
266	18.553	2400	2402	2404	VV		8698	161552	0.01%	0.007%
267	18.581	2404	2406	2408	VV	3	9076	126129	0.01%	0.005%
268	18.624	2408	2412	2421	VV	3	9219	483493	0.02%	0.020%
269	18.739	2421	2428	2433	VV	2	9574	464053	0.02%	0.019%
270	18.789	2433	2435	2440	VV	2	8333	241766	0.01%	0.010%
271	18.839	2440	2442	2448	VV	3	8806	283395	0.01%	0.011%
272	18.896	2448	2450	2453	VV	2	8964	174229	0.01%	0.007%
273	18.939	2453	2456	2460	VV	3	8551	249606	0.01%	0.010%
274	18.982	2460	2462	2463	VV		8798	118190	0.01%	0.005%
275	19.003	2463	2465	2469	VV	2	8678	194271	0.01%	0.008%
276	19.046	2469	2471	2473	VV		10118	131071	0.01%	0.005%
277	19.075	2473	2475	2481	VV	2	8962	300831	0.01%	0.012%
278	19.146	2481	2485	2487	VV		8991	207479	0.01%	0.008%
279	19.189	2487	2491	2495	VV	2	8558	309093	0.01%	0.013%
280	19.239	2495	2498	2502	VV	2	8865	231775	0.01%	0.009%
281	19.325	2502	2510	2515	VV	2	8719	458869	0.02%	0.019%

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.368	2515	2516	2519	VV	9265	154336	0.01%	0.006%
283	19.404	2519	2521	2522	VV	8281	118074	0.01%	0.005%
284	19.432	2522	2525	2529	VV 2	9527	261157	0.01%	0.011%
285	19.518	2529	2537	2542	VV 2	8932	461865	0.02%	0.019%
286	19.568	2542	2544	2547	VV	8925	169704	0.01%	0.007%
287	19.604	2547	2549	2554	VV 2	8744	243350	0.01%	0.010%
288	19.675	2554	2559	2561	VV 2	8978	257699	0.01%	0.010%
289	19.697	2561	2562	2565	VV	9091	154739	0.01%	0.006%
290	19.761	2565	2571	2574	VV 3	9435	315930	0.02%	0.013%
291	19.790	2574	2575	2581	VV	9598	254240	0.01%	0.010%
292	19.847	2581	2583	2590	VV	8990	348032	0.02%	0.014%
293	19.940	2590	2596	2602	VV 2	8948	408757	0.02%	0.017%
294	20.004	2602	2605	2609	VV 2	9141	287482	0.01%	0.012%
295	20.040	2609	2610	2612	VV	9107	106552	0.01%	0.004%
296	20.133	2612	2623	2627	VV 2	9733	572401	0.03%	0.023%
297	20.190	2627	2631	2632	VV 2	9238	178582	0.01%	0.007%
298	20.212	2632	2634	2639	VV 3	9409	270338	0.01%	0.011%
299	20.290	2639	2645	2648	VV 3	9768	331619	0.02%	0.013%
300	20.340	2648	2652	2658	VV 2	9648	373121	0.02%	0.015%
301	20.398	2658	2660	2663	VV 2	8982	176762	0.01%	0.007%
302	20.433	2663	2665	2667	VV	9407	169109	0.01%	0.007%
303	20.483	2667	2672	2674	VV 2	9248	253603	0.01%	0.010%
304	20.505	2674	2675	2685	VV 2	9119	395717	0.02%	0.016%
305	20.591	2685	2687	2690	VV	9279	216254	0.01%	0.009%
306	20.626	2690	2692	2693	VV	9379	122975	0.01%	0.005%
307	20.655	2693	2696	2698	VV 2	9882	167161	0.01%	0.007%
308	20.684	2698	2700	2701	VV	10250	155367	0.01%	0.006%
309	20.712	2701	2704	2710	VV 2	9648	315780	0.02%	0.013%
310	20.791	2710	2715	2717	VV 2	9421	266307	0.01%	0.011%
311	20.819	2717	2719	2721	VV	9517	179039	0.01%	0.007%
312	20.848	2721	2723	2725	VV 2	8953	123355	0.01%	0.005%
313	20.912	2725	2732	2737	VV 2	9490	466035	0.02%	0.019%
314	20.962	2737	2739	2744	VV 3	9732	274428	0.01%	0.011%
315	21.012	2744	2746	2747	VV	11474	145316	0.01%	0.006%
316	21.034	2747	2749	2752	VV 2	9462	173577	0.01%	0.007%
317	21.070	2752	2754	2758	VV	9542	226674	0.01%	0.009%
318	21.113	2758	2760	2761	VV	9499	133822	0.01%	0.005%
319	21.134	2761	2763	2765	VV 3	9591	141964	0.01%	0.006%
320	21.163	2765	2767	2770	VV	10121	199794	0.01%	0.008%
321	21.191	2770	2771	2775	VV 2	9117	196704	0.01%	0.008%
322	21.227	2775	2776	2778	VV	9852	127577	0.01%	0.005%
323	21.256	2778	2780	2781	VV	9595	133580	0.01%	0.005%
324	21.306	2781	2787	2791	VV	10029	373528	0.02%	0.015%
325	21.356	2791	2794	2796	VV 3	9463	203416	0.01%	0.008%
326	21.399	2796	2800	2801	VV 2	10129	201306	0.01%	0.008%
327	21.420	2801	2803	2805	VV 3	9914	139991	0.01%	0.006%
328	21.441	2805	2806	2811	VV 2	9814	253103	0.01%	0.010%
329	21.513	2811	2816	2819	VV 3	9658	336423	0.02%	0.014%

0267

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.620	2819	2831	2838	VV	2	10178	747335	0.04%	0.030%
331	21.720	2838	2845	2850	VV	3	15823	634494	0.03%	0.026%
332	21.763	2850	2851	2856	VV	2	10573	273779	0.01%	0.011%
333	21.820	2856	2859	2863	VV		10033	268325	0.01%	0.011%
334	21.863	2863	2865	2869	VV		10437	270394	0.01%	0.011%
335	21.906	2869	2871	2874	VV		9750	171606	0.01%	0.007%
336	21.942	2874	2876	2880	VV	2	10284	267587	0.01%	0.011%
337	22.006	2880	2885	2887	VV	2	10370	293730	0.01%	0.012%
338	22.106	2887	2899	2910	VV	2	10887	967645	0.05%	0.039%
339	22.214	2910	2914	2915	VV		9576	189948	0.01%	0.008%
340	22.235	2915	2917	2920	VV	2	10302	231188	0.01%	0.009%
341	22.278	2920	2923	2924	VV	2	9800	158475	0.01%	0.006%
342	22.314	2924	2928	2936	VV		16339	534089	0.03%	0.022%
343	22.400	2936	2940	2942	VV	3	10585	246699	0.01%	0.010%
344	22.428	2942	2944	2950	VV	2	10177	316715	0.02%	0.013%
345	22.478	2950	2951	2957	VV	2	10487	321176	0.02%	0.013%
346	22.535	2957	2959	2963	VV	2	10249	258230	0.01%	0.010%
347	22.586	2963	2966	2970	VV	2	10499	293227	0.01%	0.012%
348	22.636	2970	2973	2981	VV	2	10517	486557	0.02%	0.020%
349	22.714	2981	2984	2990	VV		10381	381357	0.02%	0.015%
350	22.771	2990	2992	2994	VV		10463	162726	0.01%	0.007%
351	22.800	2994	2996	2997	VV	2	10012	147764	0.01%	0.006%
352	22.821	2997	2999	3002	VV		10064	173475	0.01%	0.007%
353	22.857	3002	3004	3006	VV		10062	166761	0.01%	0.007%
354	22.907	3006	3011	3017	VV	2	10342	465712	0.02%	0.019%
355	22.972	3017	3020	3032	VV	2	10536	647473	0.03%	0.026%
356	23.072	3032	3034	3037	VV	2	10581	252976	0.01%	0.010%
357	23.115	3037	3040	3042	VV	2	10651	186856	0.01%	0.008%
358	23.136	3042	3043	3045	VV		10112	150473	0.01%	0.006%
359	23.208	3045	3053	3055	VV	2	10858	418752	0.02%	0.017%
360	23.236	3055	3057	3058	VV		10854	136254	0.01%	0.006%
361	23.258	3058	3060	3064	VV	2	11129	286974	0.01%	0.012%
362	23.322	3064	3069	3070	VV	2	10635	241509	0.01%	0.010%
363	23.336	3070	3071	3073	VV		10707	134007	0.01%	0.005%
364	23.372	3073	3076	3080	VV	2	11239	332328	0.02%	0.013%
365	23.429	3080	3084	3090	VV	2	10789	409466	0.02%	0.017%
366	23.486	3090	3092	3095	VV	3	10871	257517	0.01%	0.010%
367	23.522	3095	3097	3106	VV	2	11238	474170	0.02%	0.019%
368	23.637	3106	3113	3115	VV	3	11239	418594	0.02%	0.017%
369	23.672	3115	3118	3122	VV		11644	304199	0.01%	0.012%
370	23.787	3122	3134	3138	VV	3	11347	736541	0.04%	0.030%
371	23.837	3138	3141	3144	VV	2	10869	237646	0.01%	0.010%
372	23.873	3144	3146	3149	VV	2	11544	260341	0.01%	0.011%
373	23.915	3149	3152	3162	VV	2	11738	573019	0.03%	0.023%
374	23.994	3162	3163	3165	VV		11106	149595	0.01%	0.006%
375	24.023	3165	3167	3169	VV		11880	187005	0.01%	0.008%
376	24.073	3169	3174	3175	VV	3	11128	296921	0.01%	0.012%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

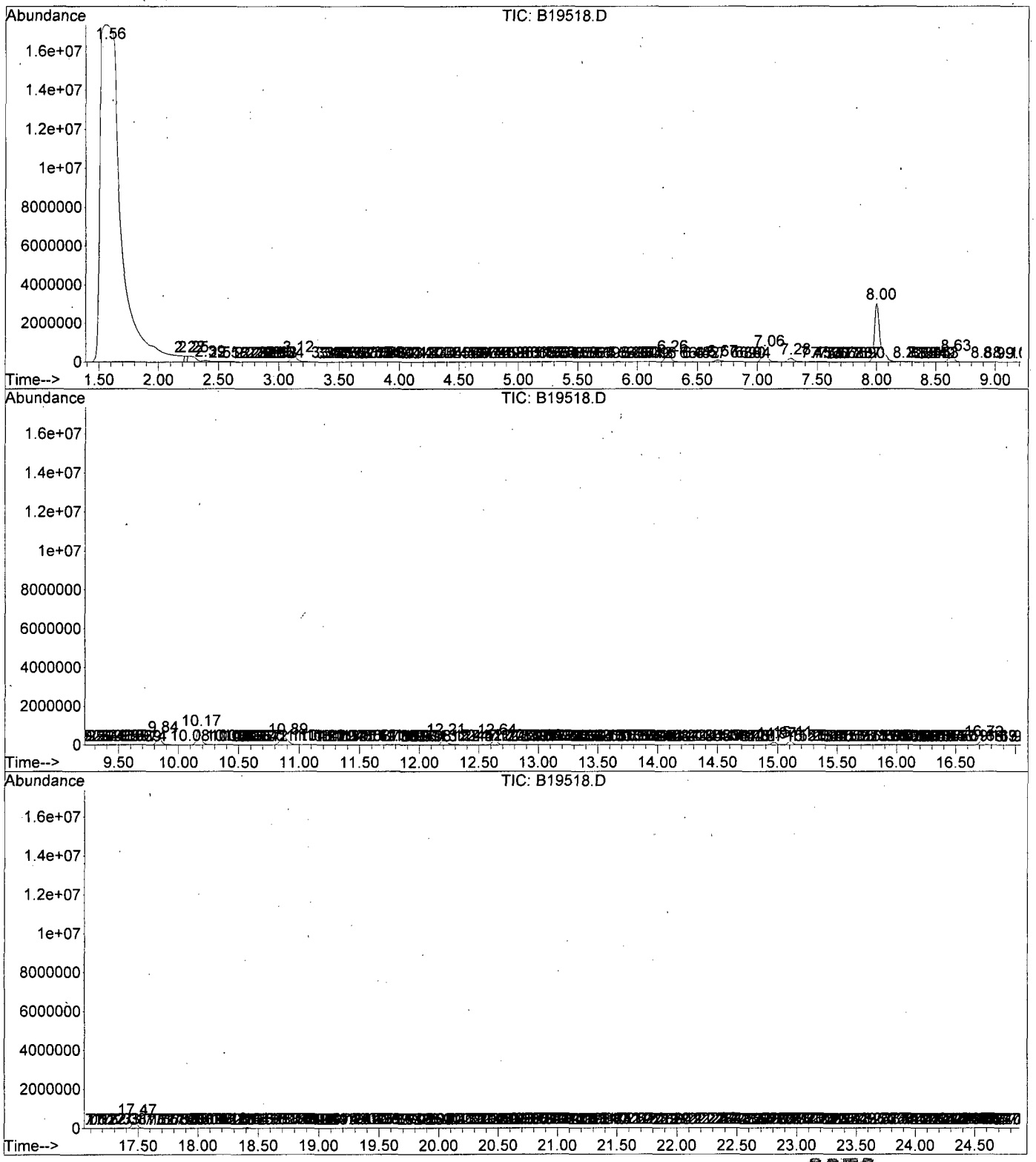
377	24.101	3175	3178	3182	VV 3	11934	309874	0.01%	0.013%
378	24.144	3182	3184	3190	VV 3	11526	354154	0.02%	0.014%
379	24.201	3190	3192	3194	VV 2	11385	192485	0.01%	0.008%
380	24.223	3194	3195	3197	VV	10978	160956	0.01%	0.007%
381	24.252	3197	3199	3202	VV 2	10899	206765	0.01%	0.008%
382	24.287	3202	3204	3208	VV 2	11727	294357	0.01%	0.012%
383	24.337	3208	3211	3213	VV	16539	292217	0.01%	0.012%
384	24.359	3213	3214	3220	VV	11346	293917	0.01%	0.012%
385	24.430	3220	3224	3226	VV 3	11820	319698	0.02%	0.013%
386	24.459	3226	3228	3230	VV 2	11397	157788	0.01%	0.006%
387	24.487	3230	3232	3233	VV	11707	173066	0.01%	0.007%
388	24.509	3233	3235	3236	VV	11954	146324	0.01%	0.006%
389	24.530	3236	3238	3240	VV 2	12047	179091	0.01%	0.007%
390	24.566	3240	3243	3248	VV 2	11843	386719	0.02%	0.016%
391	24.616	3248	3250	3252	VV 2	12002	197540	0.01%	0.008%
392	24.666	3252	3257	3259	VV 2	12477	389883	0.02%	0.016%
393	24.702	3259	3262	3269	VV 3	12098	458718	0.02%	0.019%
394	24.766	3269	3271	3275	VV 2	12277	286684	0.01%	0.012%
395	24.809	3275	3277	3281	VBA3	12041	305357	0.01%	0.012%

Sum of corrected areas: 2467701059

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/25/08

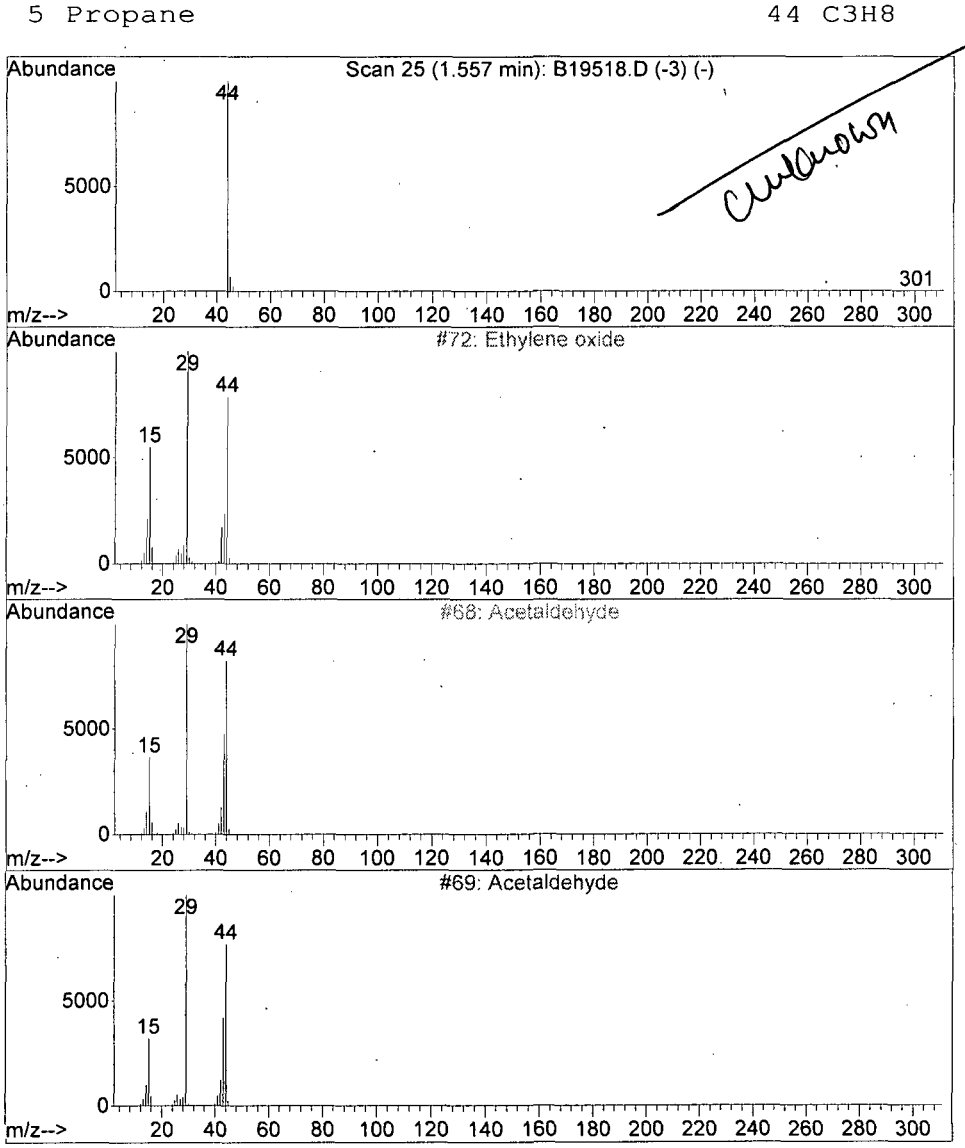
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

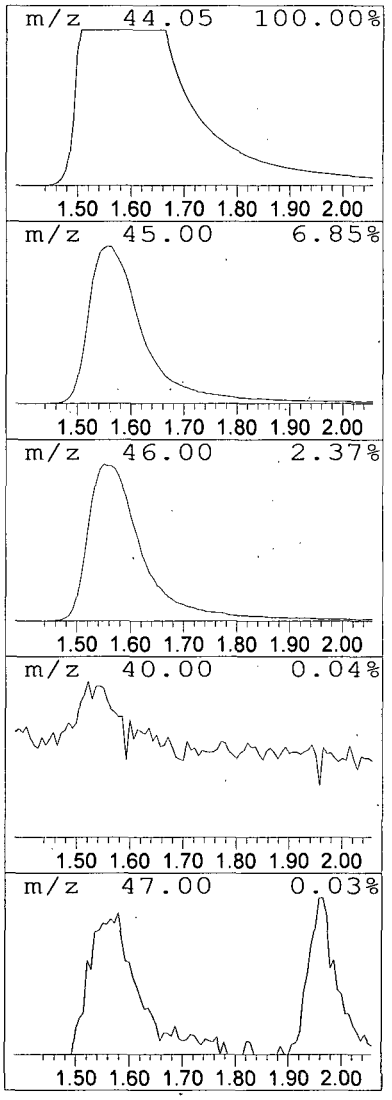
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	105.06 ug/L	2094260000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	Acetaldehyde	44	C2H4O	000075-07-0	3
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Propane	44	C3H8	000074-98-6	2





Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

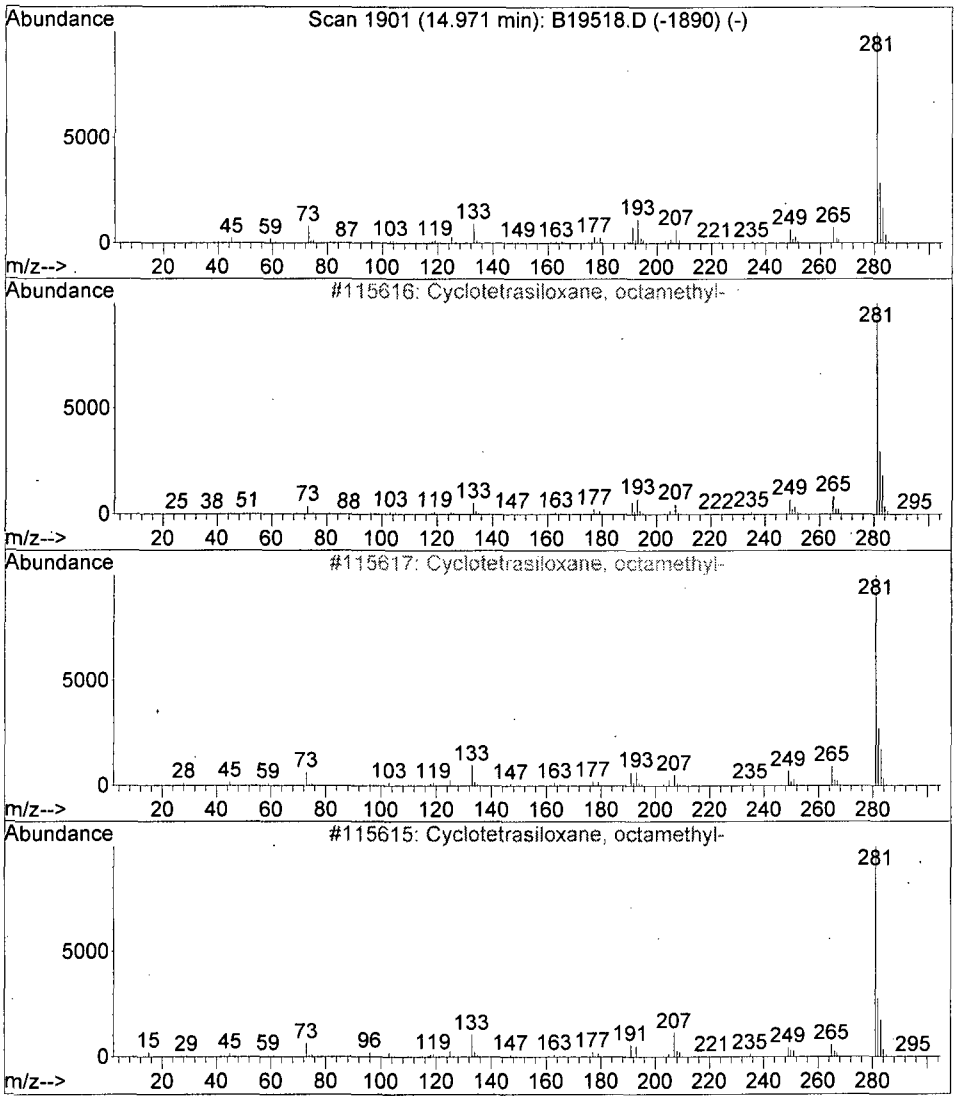
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

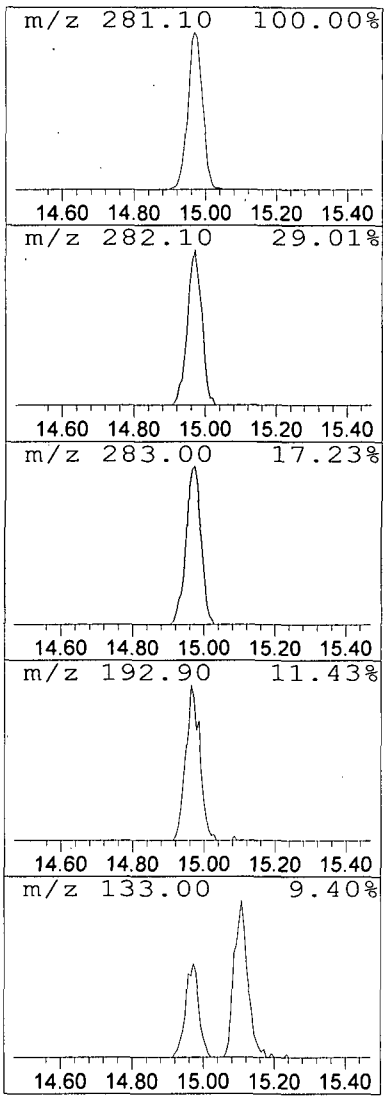
****

Peak Number 2 Cyclotetrasiloxane, octamet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	3.14 ug/L	4299000	1,4-Dichlorobenzene-d4	16.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	91
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	87
3	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	78
4	7H-Dibenzo[b,g]carbazole, 7-methyl-	281	C21H15N	003557-49-1	59
5	trans-4-Dimethylamino-4'-methoxy...	281	C18H19NO2	052119-37-6	53





0272

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

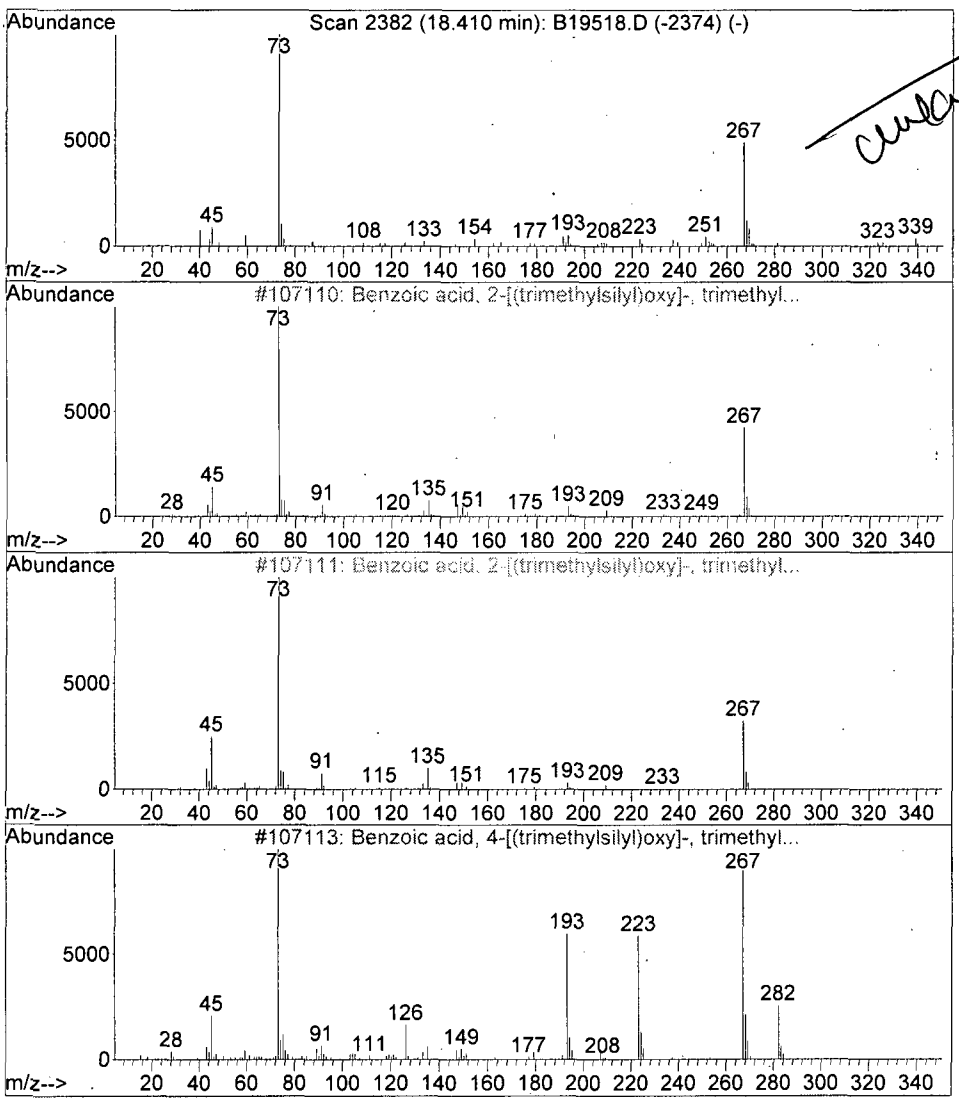
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

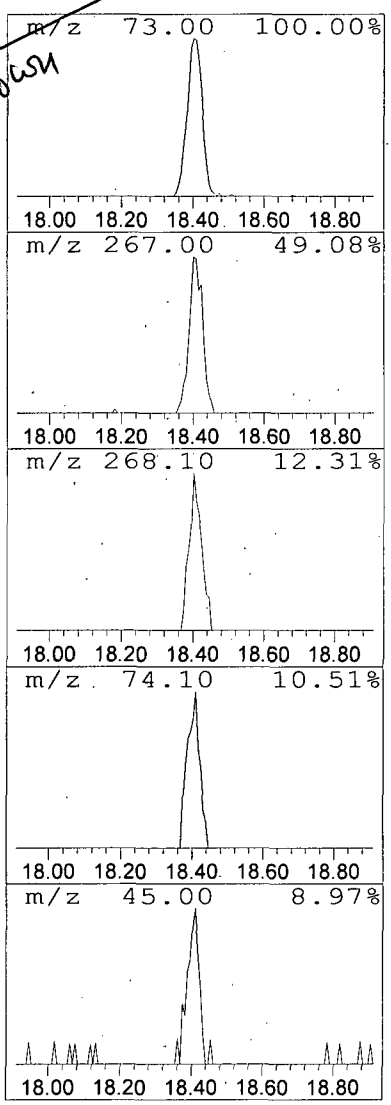
****

Peak Number 3 Benzoic acid, 2-[(trimethyl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	1.16 ug/L	1590790	1,4-Dichlorobenzene-d4	16.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	45
2	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	45
3	Benzoic acid, 4-[(trimethylsilyl...	282	C13H22O3Si2	002078-13-9	38
4	Benzeneacetic acid, .alpha.,4-bi...	326	C15H26O4Si2	055334-40-2	36
5	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	33





0273

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

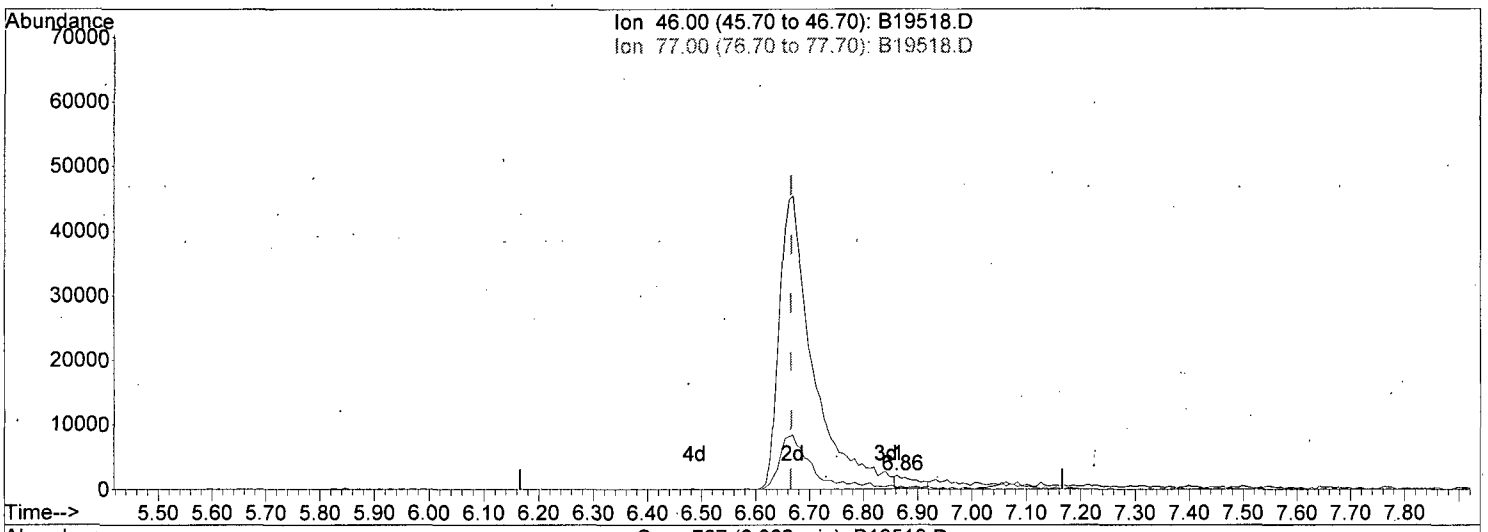
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

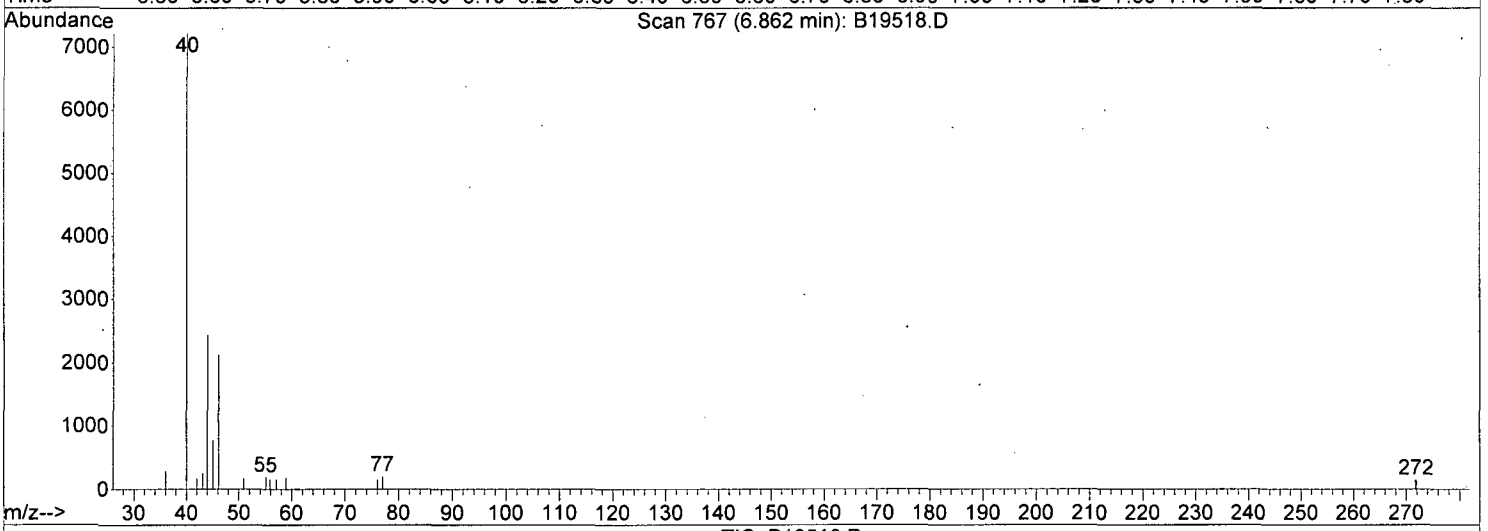
TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Ethylene oxide	1.56	105.1	ug/L	2094260000	1	8.07	99666200	5.0
Cyclotetrasiloxan...	14.97	3.1	ug/L	4299000	3	16.72	6850340	5.0
Benzoic acid, 2-[...	18.41	1.2	ug/L	1590790	3	16.72	6850340	5.0

Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 14:39:39 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration





TIC: B19518.D

(21) 2-Butanone-d5 (S)

6.865min (+0.198) 0.95ug/L

response 48411

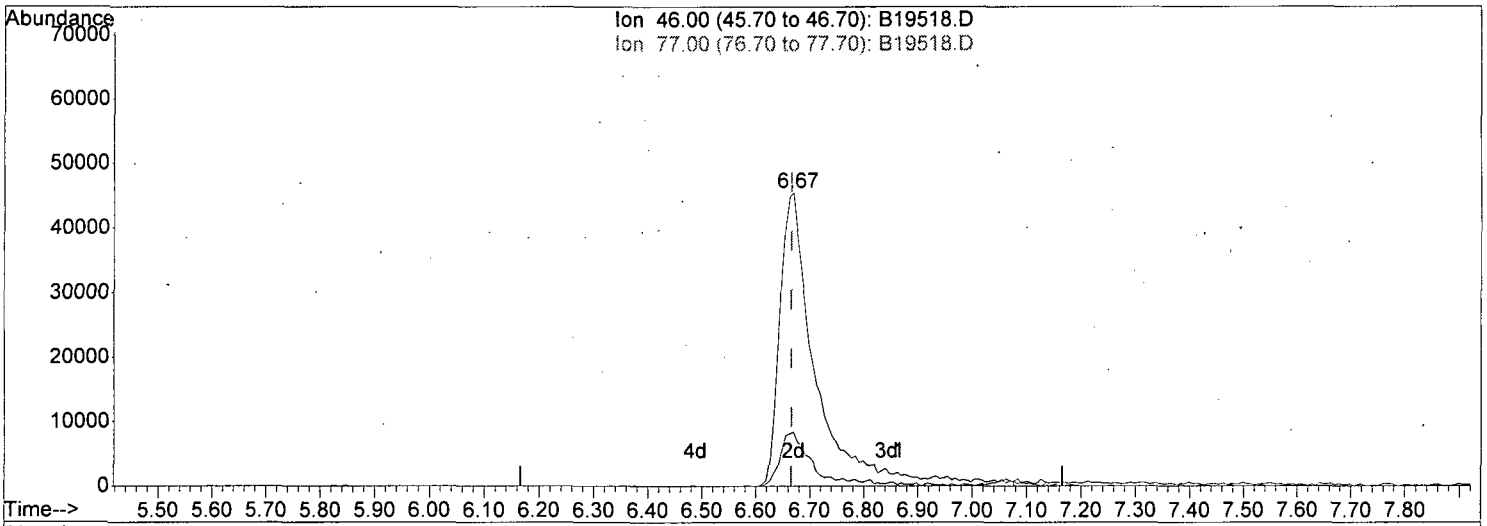
Ion	Exp%	Act%
46.00	100	100
77.00	20.70	20.16
0.00	0.00	0.00
0.00	0.00	0.00

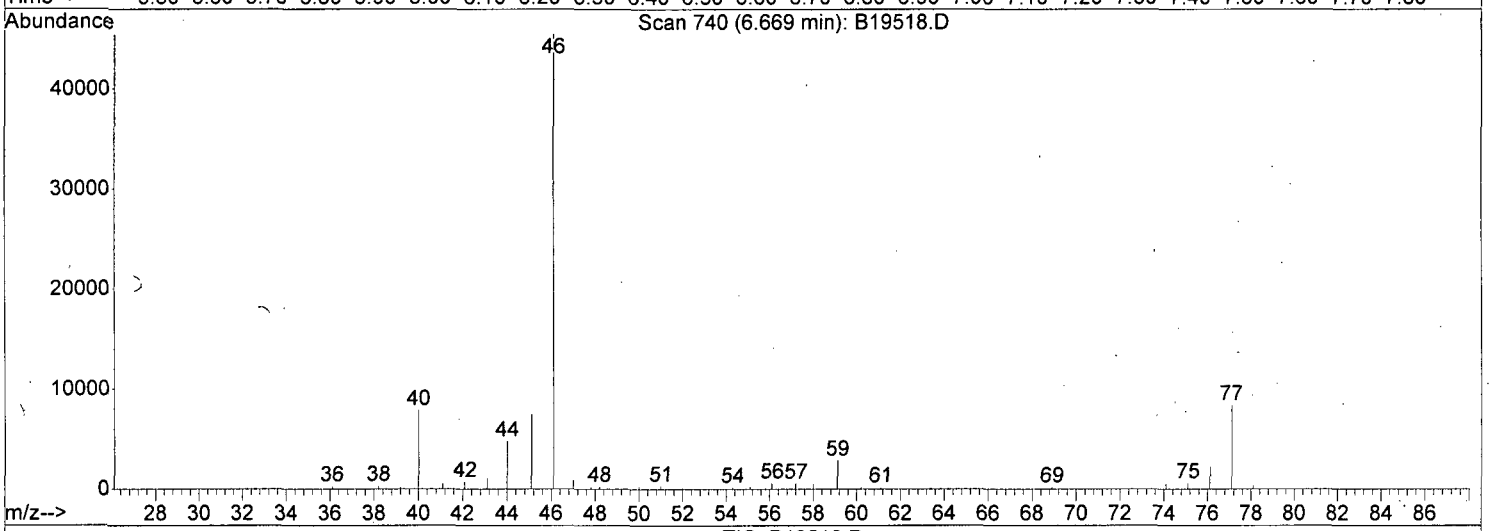
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19518.D
Acq On : 11/26/08 10:09 Operator: SB
Sample : F2XF3 Inst : B-5973
Misc : S-2066.09 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 14:39:39 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration

11/28/08





TIC: B19518.D

(21) 2-Butanone-d5 (S)

6.669min (+0.003) 41.74ug/L m

response 2128361

Ion	Exp%	Act%
46.00	100	100
77.00	20.70	0.46#
0.00	0.00	0.00
0.00	0.00	0.00

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF3DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.09DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17033

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 5.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF3DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.09DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17033

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 5.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	25	D
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	2.5	U
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-Trichlorobenzene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF3DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.09DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17033

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	42	DJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 28 11:08:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

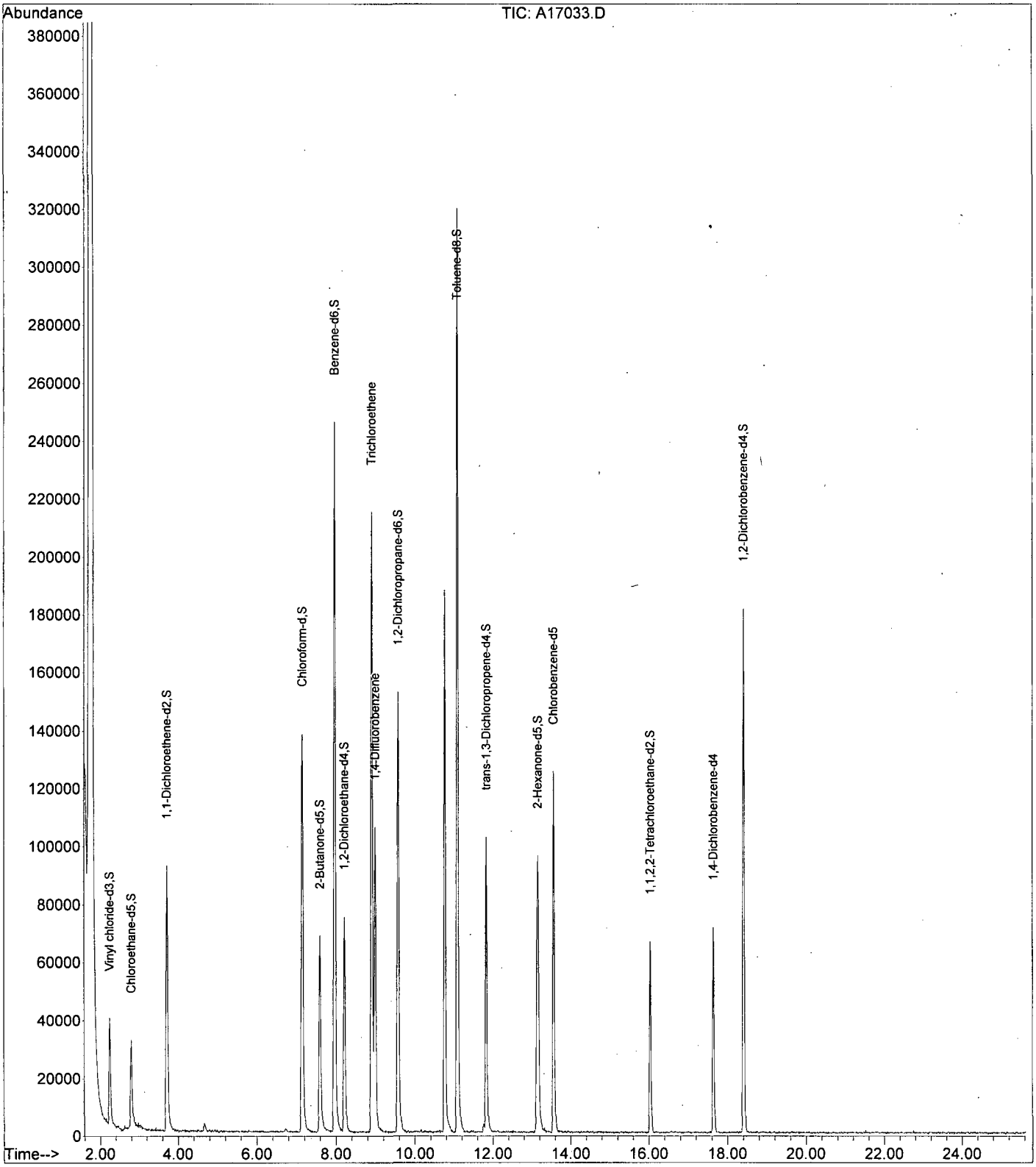
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1195897	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1017277	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	298898	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	650952	4.18	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 83.60%			
7) Chloroethane-d5	2.80	69	440754	4.78	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 95.60%			
10) 1,1-Dichloroethene-d2	3.72	63	1148347m	2.99	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 59.80%			
21) 2-Butanone-d5	7.60	46	1387374	49.52	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 99.04%			
24) Chloroform-d	7.16	84	1689247	3.99	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 79.80%			
26) 1,2-Dichloroethane-d4	8.22	65	801569	4.74	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 94.80%			
32) Benzene-d6	7.98	84	3284679	4.38	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 87.60%			
36) 1,2-Dichloropropane-d6	9.58	67	993283	4.46	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 89.20%			
41) Toluene-d8	11.10	98	3212487	4.67	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 93.40%			
43) trans-1,3-Dichloropropene-	11.83	79	798512	4.11	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 82.20%			
47) 2-Hexanone-d5	13.16	63	577635	51.51	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 103.02%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	504251	4.76	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 95.20%			
63) 1,2-Dichlorobenzene-d4	18.42	152	768883	5.66	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 113.20%			
Target Compounds						Qvalue
34) Trichloroethene	8.91	95	1065754	4.93	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

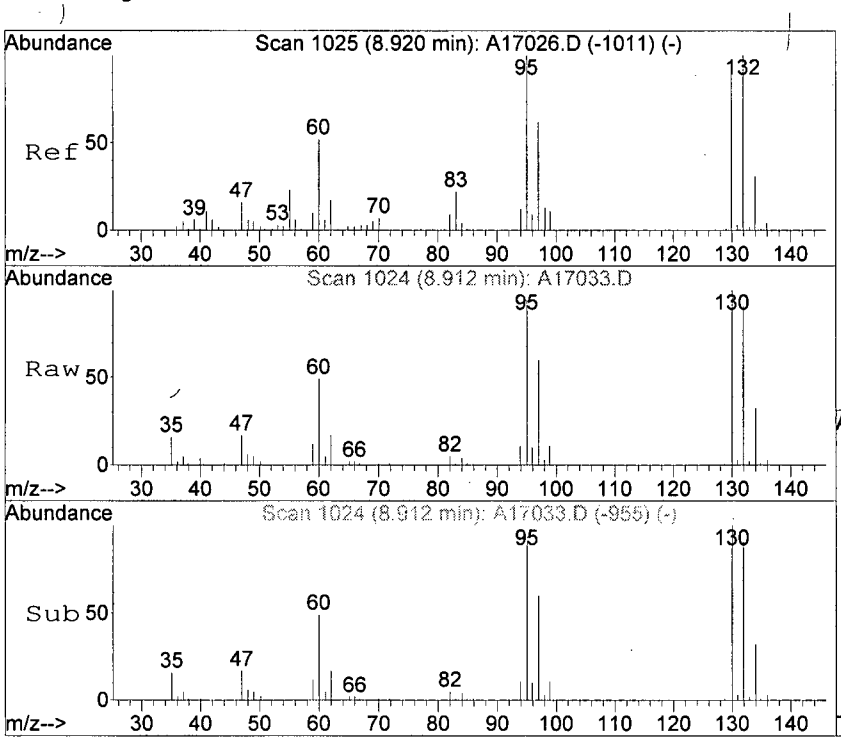
Data File: C:\MSDCHEM\1\DATA\A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 28 11:08:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



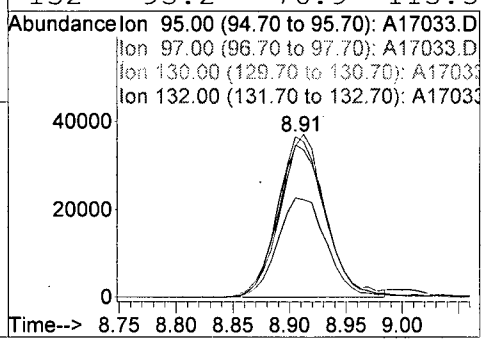
Data File : C:\MSDCHEM\1\DATA\A17033.D
Acq On : 11/26/08 21:51
Sample : F2XF3DL 5X
Misc : S-2066.09DL 25ML
MS Integration Params: LSCINT.E

Vial: 9
Operator: SB
Inst : A-5973
Multiplr: 1.00



#34
Trichloroethene
Concen: 4.93 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.01 min
Integration Range:
Scan=1012 to 1034
R.T.= 8.83 to 8.98 (min)
Tgt Ion: 95 Resp: 1065754

Ion	Ratio	Lower	Upper
95	100		
97	64.8	53.2	79.8
130	99.1	79.5	119.3
132	95.2	76.9	115.3



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.143	77	79	84	PV 3	1026	10035	0.11%	0.010%
2	2.251	84	94	107	PV	36399	1029385	11.26%	1.018%
3	2.351	107	108	113	VV 3	1117	17469	0.19%	0.017%
4	2.394	113	114	121	VV 3	608	17844	0.20%	0.018%
5	2.458	121	123	129	VV	1200	25275	0.28%	0.025%
6	2.623	134	146	148	PV 3	1782	40315	0.44%	0.040%
7	2.680	148	154	156	VV 2	1259	36602	0.40%	0.036%
8	2.716	156	159	160	VV 3	1220	18875	0.21%	0.019%
9	2.802	160	171	188	VV	31206	1114941	12.20%	1.102%
10	2.931	188	189	192	VV 2	2332	44383	0.49%	0.044%
11	2.981	192	196	197	VV 3	2937	48055	0.53%	0.048%
12	3.010	197	200	203	VV 3	2107	49988	0.55%	0.049%
13	3.046	203	205	208	VV 3	2001	34793	0.38%	0.034%
14	3.082	208	210	218	VV 3	1441	45606	0.50%	0.045%
15	3.160	218	221	225	VV 2	1022	21225	0.23%	0.021%
16	3.196	225	226	231	VV 3	865	16654	0.18%	0.016%
17	3.246	231	233	243	VV 2	1083	29940	0.33%	0.030%
18	3.332	243	245	247	VV	945	11512	0.13%	0.011%
19	3.375	247	251	256	VV 3	827	19603	0.21%	0.019%
20	3.425	256	258	261	VV	1329	14182	0.16%	0.014%
21	3.476	261	265	267	VV 2	916	15116	0.17%	0.015%
22	3.504	267	269	271	VV	581	6419	0.07%	0.006%
23	3.533	271	273	276	VV	950	13765	0.15%	0.014%
24	3.612	276	284	289	VV 2	659	23412	0.26%	0.023%
25	3.726	289	300	318	VV 2	91252	3105893	33.98%	3.070%
26	3.877	318	321	332	VV 3	1326	45190	0.49%	0.045%
27	3.984	332	336	341	VV 2	869	19043	0.21%	0.019%
28	4.041	341	344	348	PV 2	644	12511	0.14%	0.012%
29	4.113	348	354	357	VV 2	808	21892	0.24%	0.022%
30	4.163	357	361	363	VV 2	991	15931	0.17%	0.016%
31	4.185	363	364	373	VV	808	23793	0.26%	0.024%
32	4.271	373	376	378	VV 2	625	9700	0.11%	0.010%
33	4.321	378	383	385	VV	878	15527	0.17%	0.015%
34	4.378	385	391	393	VV	942	21595	0.24%	0.021%
35	4.428	393	398	402	VV 2	815	23804	0.26%	0.024%
36	4.471	402	404	408	VV 2	699	14901	0.16%	0.015%
37	4.521	408	411	415	VV	1157	21032	0.23%	0.021%
38	4.572	415	418	420	VV	769	11853	0.13%	0.012%
39	4.593	420	421	423	VV	774	8259	0.09%	0.008%
40	4.672	423	432	442	VV 4	3314	128576	1.41%	0.127%
41	4.751	442	443	445	VV	820	8808	0.10%	0.009%
42	4.801	445	450	452	VV 3	1157	24598	0.27%	0.024%
43	4.829	452	454	458	VV	795	14671	0.16%	0.015%
44	4.872	458	460	463	VV 2	1061	18437	0.20%	0.018%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.937	463	469	473	VV	1177	31210	0.34%	0.031%
46	4.987	473	476	482	VV	1097	27120	0.30%	0.027%
47	5.102	482	492	495	VV 2	974	32845	0.36%	0.032%
48	5.166	495	501	502	VV 2	978	21177	0.23%	0.021%
49	5.202	502	506	508	VV 2	873	16090	0.18%	0.016%
50	5.231	508	510	514	VV	796	17297	0.19%	0.017%
51	5.295	514	519	524	VV 2	849	29173	0.32%	0.029%
52	5.359	524	528	530	VV 2	968	17764	0.19%	0.018%
53	5.381	530	531	533	VV 2	822	8423	0.09%	0.008%
54	5.424	533	537	540	VV	848	18417	0.20%	0.018%
55	5.460	540	542	546	VV	874	19132	0.21%	0.019%
56	5.503	546	548	550	VV	1045	14774	0.16%	0.015%
57	5.531	550	552	557	VV 2	896	21701	0.24%	0.021%
58	5.589	557	560	563	VV 2	844	20469	0.22%	0.020%
59	5.625	563	565	566	VV	992	10698	0.12%	0.011%
60	5.646	566	568	571	VV 2	904	12622	0.14%	0.012%
61	5.682	571	573	577	VV 2	791	18041	0.20%	0.018%
62	5.718	577	578	580	VV	863	10137	0.11%	0.010%
63	5.746	580	582	586	VV 2	866	16842	0.18%	0.017%
64	5.789	586	588	602	VV 2	1204	59464	0.65%	0.059%
65	5.904	602	604	610	VV 2	1015	27923	0.31%	0.028%
66	5.968	610	613	615	VV	1123	18347	0.20%	0.018%
67	6.004	615	618	620	VV	1102	19691	0.22%	0.019%
68	6.026	620	621	625	VV 2	939	18181	0.20%	0.018%
69	6.061	625	626	629	VV	1159	16455	0.18%	0.016%
70	6.104	629	632	634	VV 2	1178	19114	0.21%	0.019%
71	6.133	634	636	642	VV 2	1060	33194	0.36%	0.033%
72	6.190	642	644	645	VV	842	9375	0.10%	0.009%
73	6.212	645	647	654	VV 2	959	29731	0.33%	0.029%
74	6.276	654	656	658	VV	993	14607	0.16%	0.014%
75	6.305	658	660	661	VV	832	9983	0.11%	0.010%
76	6.377	661	670	673	VV 2	1221	46788	0.51%	0.046%
77	6.405	673	674	683	VV 2	1189	45214	0.49%	0.045%
78	6.484	683	685	686	VV	1207	14057	0.15%	0.014%
79	6.506	686	688	691	VV 2	1144	21648	0.24%	0.021%
80	6.541	691	693	697	VV 2	1068	23205	0.25%	0.023%
81	6.599	697	701	706	VV	1332	37571	0.41%	0.037%
82	6.649	706	708	709	VV	1081	13652	0.15%	0.013%
83	6.685	709	713	714	VV 2	1204	22598	0.25%	0.022%
84	6.728	714	719	729	VV 5	2074	94520	1.03%	0.093%
85	6.821	729	732	744	VV	1296	67104	0.73%	0.066%
86	6.921	744	746	751	VV 2	1207	34407	0.38%	0.034%
87	6.971	751	753	755	VV	1167	16707	0.18%	0.017%
88	7.000	755	757	759	VV 2	1409	19459	0.21%	0.019%
89	7.021	759	760	764	VV 2	1209	22697	0.25%	0.022%
90	7.157	764	779	797	VV	138081	4635625	50.72%	4.583%
91	7.293	797	798	803	VV 3	2231	49565	0.54%	0.049%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.336	803	804	807	VV		1857	25034	0.27%	0.025%
93	7.372	807	809	815	VV		1581	43228	0.47%	0.043%
94	7.430	815	817	820	VV	2	1265	28393	0.31%	0.028%
95	7.465	820	822	828	VV	2	1419	37259	0.41%	0.037%
96	7.602	828	841	857	VV	2	68663	2292333	25.08%	2.266%
97	7.723	857	858	873	VV	3	2665	142431	1.56%	0.141%
98	7.852	873	876	878	VV	2	1869	31949	0.35%	0.032%
99	7.881	878	880	882	VV	2	1787	29634	0.32%	0.029%
100	7.974	882	893	913	VV		243914	7427037	81.26%	7.342%
101	8.132	913	915	918	VV	2	2344	47274	0.52%	0.047%
102	8.225	918	928	946	VV		75189	2431432	26.60%	2.404%
103	8.375	946	949	951	VV	2	1838	35442	0.39%	0.035%
104	8.425	951	956	958	VV	2	1711	40698	0.45%	0.040%
105	8.461	958	961	963	VV	2	1742	31722	0.35%	0.031%
106	8.511	963	968	970	VV	2	1561	42239	0.46%	0.042%
107	8.540	970	972	977	VV		1559	40528	0.44%	0.040%
108	8.590	977	979	987	VV		1808	65071	0.71%	0.064%
109	8.654	987	988	997	VV	2	1698	71534	0.78%	0.071%
110	8.733	997	999	1001	VV	2	1649	25699	0.28%	0.025%
111	8.762	1001	1003	1013	VV		1571	76975	0.84%	0.076%
112	8.912	1013	1024	1031	VV	2	214824	6253649	68.42%	6.182%
113	8.998	1031	1036	1048	VV		107018	3189041	34.89%	3.153%
114	9.091	1048	1049	1052	VV	2	3158	50295	0.55%	0.050%
115	9.120	1052	1053	1055	VV		2996	37289	0.41%	0.037%
116	9.149	1055	1057	1065	VV	2	2499	83355	0.91%	0.082%
117	9.228	1065	1068	1071	VV	2	2027	43561	0.48%	0.043%
118	9.263	1071	1073	1074	VV		2149	28819	0.32%	0.028%
119	9.285	1074	1076	1078	VV		1830	27040	0.30%	0.027%
120	9.313	1078	1080	1088	VV	2	2027	71664	0.78%	0.071%
121	9.378	1088	1089	1095	VV	2	2010	54839	0.60%	0.054%
122	9.435	1095	1097	1103	VV	2	1912	57728	0.63%	0.057%
123	9.579	1103	1117	1140	VV	2	151576	4949969	54.16%	4.893%
124	9.758	1140	1142	1145	VV	2	2329	43400	0.47%	0.043%
125	9.829	1145	1152	1156	VV	2	2308	82279	0.90%	0.081%
126	9.872	1156	1158	1159	VV	2	1928	24985	0.27%	0.025%
127	9.894	1159	1161	1163	VV		2067	32125	0.35%	0.032%
128	9.922	1163	1165	1167	VV	2	1785	26124	0.29%	0.026%
129	10.023	1167	1179	1184	VV	2	2260	142861	1.56%	0.141%
130	10.066	1184	1185	1187	VV		2086	29103	0.32%	0.029%
131	10.087	1187	1188	1191	VV		2046	32046	0.35%	0.032%
132	10.144	1191	1196	1200	VV	3	2563	80761	0.88%	0.080%
133	10.180	1200	1201	1203	VV		1962	23767	0.26%	0.023%
134	10.216	1203	1206	1208	VV	2	2081	40682	0.45%	0.040%
135	10.245	1208	1210	1213	VV		2453	46887	0.51%	0.046%
136	10.280	1213	1215	1217	VV	2	2224	39343	0.43%	0.039%
137	10.309	1217	1219	1225	VV	2	2059	62231	0.68%	0.062%
138	10.366	1225	1227	1230	VV	2	2314	45731	0.50%	0.045%
139	10.402	1230	1232	1239	VV		2212	76380	0.84%	0.076%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.467	1239	1241	1242	VV 2	2130	27031	0.30%	0.027%
141	10.488	1242	1244	1247	VV 2	2265	37230	0.41%	0.037%
142	10.538	1247	1251	1252	VV 2	2155	47634	0.52%	0.047%
143	10.567	1252	1255	1257	VV	2331	45326	0.50%	0.045%
144	10.624	1257	1263	1269	VV	2639	108533	1.19%	0.107%
145	10.674	1269	1270	1272	VV 2	2419	37563	0.41%	0.037%
146	10.775	1272	1284	1300	VV	188919	5378259	58.84%	5.317%
147	10.897	1300	1301	1305	VV	3811	65665	0.72%	0.065%
148	10.939	1305	1307	1314	VV 3	2839	90621	0.99%	0.090%
149	11.004	1314	1316	1318	VV	2257	33433	0.37%	0.033%
150	11.097	1318	1329	1356	VV	321118	9139910	100.00%	9.035%
151	11.326	1356	1361	1366	VV	2716	100343	1.10%	0.099%
152	11.369	1366	1367	1369	VV	2335	32499	0.36%	0.032%
153	11.412	1369	1373	1375	VV 2	2512	53136	0.58%	0.053%
154	11.441	1375	1377	1382	VV 2	2758	78566	0.86%	0.078%
155	11.491	1382	1384	1387	VV	2749	48565	0.53%	0.048%
156	11.534	1387	1390	1398	VV 2	2389	111928	1.22%	0.111%
157	11.627	1398	1403	1407	VV 2	2591	94972	1.04%	0.094%
158	11.684	1407	1411	1413	VV	2463	54598	0.60%	0.054%
159	11.713	1413	1415	1416	VV	2472	36112	0.40%	0.036%
160	11.763	1416	1422	1425	VV 4	5259	144366	1.58%	0.143%
161	11.835	1425	1432	1454	VV	104981	3080723	33.71%	3.045%
162	12.007	1454	1456	1458	VV 2	2858	53149	0.58%	0.053%
163	12.043	1458	1461	1464	VV 2	2878	61491	0.67%	0.061%
164	12.071	1464	1465	1467	VV 2	2590	33873	0.37%	0.033%
165	12.121	1467	1472	1481	VV 3	2966	161179	1.76%	0.159%
166	12.200	1481	1483	1487	VV	2525	56506	0.62%	0.056%
167	12.243	1487	1489	1490	VV	2626	38017	0.42%	0.038%
168	12.286	1490	1495	1499	VV 2	2745	99207	1.09%	0.098%
169	12.336	1499	1502	1507	VV	2915	88668	0.97%	0.088%
170	12.386	1507	1509	1518	VV 2	2890	125247	1.37%	0.124%
171	12.472	1518	1521	1526	VV 2	2736	84809	0.93%	0.084%
172	12.523	1526	1528	1529	VV	3029	35703	0.39%	0.035%
173	12.544	1529	1531	1538	VV 2	2815	99268	1.09%	0.098%
174	12.608	1538	1540	1542	VV 2	2592	43888	0.48%	0.043%
175	12.637	1542	1544	1546	VV	2678	38541	0.42%	0.038%
176	12.659	1546	1547	1555	VV	2861	102971	1.13%	0.102%
177	12.730	1555	1557	1561	VV 2	2926	71865	0.79%	0.071%
178	12.780	1561	1564	1566	VV	2927	55337	0.61%	0.055%
179	12.802	1566	1567	1575	VV	2851	96582	1.06%	0.095%
180	12.881	1575	1578	1584	VV 2	2847	110141	1.21%	0.109%
181	12.974	1584	1591	1593	VV 2	2913	97704	1.07%	0.097%
182	13.002	1593	1595	1597	VV	2965	44834	0.49%	0.044%
183	13.024	1597	1598	1601	VV	2888	54293	0.59%	0.054%
184	13.060	1601	1603	1605	VV	3307	44165	0.48%	0.044%
185	13.160	1605	1617	1633	VV 2	97950	4029855	44.09%	3.984%
186	13.282	1633	1634	1637	VV 2	3957	68243	0.75%	0.067%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.318	1637	1639	1645	VV 2	4138	115963	1.27%	0.115%
188	13.375	1645	1647	1649	VV 2	3333	47145	0.52%	0.047%
189	13.411	1649	1652	1662	VV 3	3274	165275	1.81%	0.163%
190	13.568	1662	1674	1688	VV	126053	3625357	39.67%	3.584%
191	13.690	1688	1691	1696	VV 2	3518	102677	1.12%	0.102%
192	13.740	1696	1698	1700	VV 2	3314	53580	0.59%	0.053%
193	13.769	1700	1702	1705	VV	3307	61711	0.68%	0.061%
194	13.855	1705	1714	1721	VV	3394	202483	2.22%	0.200%
195	13.919	1721	1723	1724	VV	3493	48531	0.53%	0.048%
196	13.941	1724	1726	1729	VV 2	3370	72629	0.79%	0.072%
197	13.977	1729	1731	1734	VV 2	3021	60749	0.66%	0.060%
198	14.020	1734	1737	1741	VV 2	3272	84519	0.92%	0.084%
199	14.063	1741	1743	1745	VV	3026	55315	0.61%	0.055%
200	14.091	1745	1747	1748	VV	3138	41989	0.46%	0.042%
201	14.141	1748	1754	1758	VV	3224	125312	1.37%	0.124%
202	14.192	1758	1761	1765	VV 2	3300	92960	1.02%	0.092%
203	14.234	1765	1767	1769	VV	3040	47541	0.52%	0.047%
204	14.263	1769	1771	1776	VV 2	3366	91784	1.00%	0.091%
205	14.313	1776	1778	1780	VV	3288	51643	0.57%	0.051%
206	14.335	1780	1781	1786	VV 2	3286	80486	0.88%	0.080%
207	14.392	1786	1789	1791	VV 2	3191	66910	0.73%	0.066%
208	14.421	1791	1793	1797	VV 2	3559	91505	1.00%	0.090%
209	14.464	1797	1799	1804	VV 2	3248	88112	0.96%	0.087%
210	14.514	1804	1806	1808	VV	3356	52702	0.58%	0.052%
211	14.557	1808	1812	1821	VV 2	3536	177960	1.95%	0.176%
212	14.657	1821	1826	1828	VV 2	3251	92064	1.01%	0.091%
213	14.693	1828	1831	1834	VV 2	3480	80260	0.88%	0.079%
214	14.729	1834	1836	1839	VV 2	3516	69535	0.76%	0.069%
215	14.765	1839	1841	1842	VV	3545	48622	0.53%	0.048%
216	14.786	1842	1844	1848	VV 2	3402	71694	0.78%	0.071%
217	14.822	1848	1849	1851	VV	3428	43008	0.47%	0.043%
218	14.851	1851	1853	1855	VV 2	3322	60510	0.66%	0.060%
219	14.908	1855	1861	1871	VV 2	3530	222672	2.44%	0.220%
220	14.994	1871	1873	1877	VV 2	3316	79277	0.87%	0.078%
221	15.037	1877	1879	1881	VV	3330	51995	0.57%	0.051%
222	15.065	1881	1883	1890	VV 2	3391	129328	1.41%	0.128%
223	15.151	1890	1895	1904	VV 2	3337	187723	2.05%	0.186%
224	15.230	1904	1906	1911	VV 2	3390	96848	1.06%	0.096%
225	15.287	1911	1914	1916	VV 2	3629	84860	0.93%	0.084%
226	15.316	1916	1918	1920	VV	3510	53142	0.58%	0.053%
227	15.338	1920	1921	1923	VV	3478	39109	0.43%	0.039%
228	15.402	1923	1930	1932	VV 2	3733	128519	1.41%	0.127%
229	15.445	1932	1936	1940	VV 2	3612	117731	1.29%	0.116%
230	15.495	1940	1943	1950	VV 2	3680	138872	1.52%	0.137%
231	15.567	1950	1953	1956	VV 2	3693	91754	1.00%	0.091%
232	15.595	1956	1957	1962	VV 2	3472	85966	0.94%	0.085%
233	15.667	1962	1967	1971	VV 2	3601	138875	1.52%	0.137%
234	15.717	1971	1974	1982	VV 2	3567	167767	1.84%	0.166%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.796	1982	1985	1987	VV	3692	73964	0.81%	0.073%
236	15.825	1987	1989	1991	VV	3764	56497	0.62%	0.056%
237	15.853	1991	1993	1996	VV	3706	77860	0.85%	0.077%
238	15.896	1996	1999	2001	VV 2	3690	72144	0.79%	0.071%
239	15.932	2001	2004	2006	VV 2	3683	69870	0.76%	0.069%
240	15.961	2006	2008	2009	VV 2	3684	52215	0.57%	0.052%
241	15.982	2009	2011	2012	VV 2	3794	45694	0.50%	0.045%
242	16.047	2012	2020	2031	VV	68890	2026797	22.18%	2.004%
243	16.176	2031	2038	2040	VV	3942	148433	1.62%	0.147%
244	16.204	2040	2042	2053	VV 2	3793	199134	2.18%	0.197%
245	16.297	2053	2055	2056	VV	3675	49080	0.54%	0.049%
246	16.319	2056	2058	2060	VV 2	3748	60619	0.66%	0.060%
247	16.369	2060	2065	2068	VV	3752	122839	1.34%	0.121%
248	16.448	2068	2076	2078	VV 2	3805	150958	1.65%	0.149%
249	16.477	2078	2080	2083	VV 2	3805	83915	0.92%	0.083%
250	16.555	2083	2091	2098	VV 2	4052	241408	2.64%	0.239%
251	16.620	2098	2100	2101	VV 2	3769	55198	0.60%	0.055%
252	16.677	2101	2108	2110	VV 2	4146	142307	1.56%	0.141%
253	16.706	2110	2112	2113	VV	3798	48268	0.53%	0.048%
254	16.720	2113	2114	2118	VV 2	3826	79253	0.87%	0.078%
255	16.785	2118	2123	2129	VV 2	3989	185892	2.03%	0.184%
256	16.842	2129	2131	2135	VV 2	4044	95779	1.05%	0.095%
257	16.885	2135	2137	2143	VV	4077	117508	1.29%	0.116%
258	16.949	2143	2146	2149	VV 2	3957	104501	1.14%	0.103%
259	16.992	2149	2152	2161	VV 2	4161	193305	2.11%	0.191%
260	17.064	2161	2162	2171	VV	4014	160626	1.76%	0.159%
261	17.143	2171	2173	2175	VV 2	4076	67421	0.74%	0.067%
262	17.164	2175	2176	2179	VV	4112	67443	0.74%	0.067%
263	17.193	2179	2180	2192	VV 2	4162	224665	2.46%	0.222%
264	17.293	2192	2194	2197	VV 2	3960	86274	0.94%	0.085%
265	17.329	2197	2199	2206	VV	4001	141298	1.55%	0.140%
266	17.393	2206	2208	2209	VV 2	4124	63896	0.70%	0.063%
267	17.415	2209	2211	2213	VV 2	4243	70690	0.77%	0.070%
268	17.451	2213	2216	2220	VV 2	4129	104911	1.15%	0.104%
269	17.501	2220	2223	2225	VV	4089	86155	0.94%	0.085%
270	17.522	2225	2226	2228	VV 2	3919	46675	0.51%	0.046%
271	17.551	2228	2230	2232	VV 2	4394	67044	0.73%	0.066%
272	17.572	2232	2233	2235	VV 2	4341	53833	0.59%	0.053%
273	17.651	2235	2244	2255	VV	73624	2161343	23.65%	2.137%
274	17.744	2255	2257	2259	VV 2	4244	64030	0.70%	0.063%
275	17.766	2259	2260	2265	VV 2	4358	117979	1.29%	0.117%
276	17.816	2265	2267	2269	VV	4214	67802	0.74%	0.067%
277	17.845	2269	2271	2275	VV 2	4052	96335	1.05%	0.095%
278	17.888	2275	2277	2288	VV 2	4347	230556	2.52%	0.228%
279	17.995	2288	2292	2303	VV 2	4244	265189	2.90%	0.262%
280	18.103	2303	2307	2311	VV 2	4375	130835	1.43%	0.129%
281	18.138	2311	2312	2319	VV 2	4424	155876	1.71%	0.154%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.196	2319	2320	2323	VV		4306	63779	0.70%	0.063%
283	18.239	2323	2326	2332	VV	2	4603	174947	1.91%	0.173%
284	18.303	2332	2335	2338	VV	2	4623	101192	1.11%	0.100%
285	18.339	2338	2340	2342	VV	2	4491	75518	0.83%	0.075%
286	18.418	2342	2351	2362	VV		184790	5078319	55.56%	5.020%
287	18.511	2362	2364	2372	VV	2	4795	189507	2.07%	0.187%
288	18.590	2372	2375	2377	VV	2	4726	105630	1.16%	0.104%
289	18.647	2377	2383	2385	VV		4479	135962	1.49%	0.134%
290	18.668	2385	2386	2388	VV		4463	64419	0.70%	0.064%
291	18.726	2388	2394	2403	VV	2	4605	280657	3.07%	0.277%
292	18.805	2403	2405	2409	VV	2	4466	109054	1.19%	0.108%
293	18.847	2409	2411	2412	VV		4573	63998	0.70%	0.063%
294	18.883	2412	2416	2427	VV	2	4720	296028	3.24%	0.293%
295	18.984	2427	2430	2435	VV	2	4539	134501	1.47%	0.133%
296	19.041	2435	2438	2443	VV		4478	154695	1.69%	0.153%
297	19.091	2443	2445	2446	VV		4753	70675	0.77%	0.070%
298	19.113	2446	2448	2452	VV	2	4395	106979	1.17%	0.106%
299	19.191	2452	2459	2462	VV	2	4861	195795	2.14%	0.194%
300	19.249	2462	2467	2472	VV	2	4573	183925	2.01%	0.182%
301	19.306	2472	2475	2477	VV	2	4889	102448	1.12%	0.101%
302	19.356	2477	2482	2484	VV	2	4593	128602	1.41%	0.127%
303	19.385	2484	2486	2488	VV	2	4707	85264	0.93%	0.084%
304	19.413	2488	2490	2492	VV		4849	70352	0.77%	0.070%
305	19.449	2492	2495	2498	VV	2	4693	129035	1.41%	0.128%
306	19.492	2498	2501	2503	VV	2	4751	101755	1.11%	0.101%
307	19.528	2503	2506	2516	VV	2	4871	252817	2.77%	0.250%
308	19.621	2516	2519	2527	VV		5060	218007	2.39%	0.216%
309	19.693	2527	2529	2535	VV		4872	148402	1.62%	0.147%
310	19.757	2535	2538	2547	VV		4860	243758	2.67%	0.241%
311	19.850	2547	2551	2554	VV	2	5019	141146	1.54%	0.140%
312	19.879	2554	2555	2558	VV	2	4935	86429	0.95%	0.085%
313	19.936	2558	2563	2569	VV		4968	221756	2.43%	0.219%
314	20.015	2569	2574	2576	VV	2	4989	138418	1.51%	0.137%
315	20.044	2576	2578	2579	VV		4749	71121	0.78%	0.070%
316	20.065	2579	2581	2583	VV		5120	76751	0.84%	0.076%
317	20.087	2583	2584	2588	VV	2	4905	97139	1.06%	0.096%
318	20.130	2588	2590	2601	VV	2	4818	278053	3.04%	0.275%
319	20.230	2601	2604	2606	VV	2	4940	93972	1.03%	0.093%
320	20.280	2606	2611	2615	VV	2	5016	187802	2.05%	0.186%
321	20.330	2615	2618	2624	VV	2	4993	189396	2.07%	0.187%
322	20.395	2624	2627	2633	VV	2	4994	174240	1.91%	0.172%
323	20.452	2633	2635	2636	VV	2	5063	72568	0.79%	0.072%
324	20.473	2636	2638	2639	VV		4922	65262	0.71%	0.065%
325	20.495	2639	2641	2646	VV		5059	126223	1.38%	0.125%
326	20.559	2646	2650	2651	VV		5181	120564	1.32%	0.119%
327	20.617	2651	2658	2662	VV	2	4924	214628	2.35%	0.212%
328	20.681	2662	2667	2671	VV	2	5204	202649	2.22%	0.200%
329	20.724	2671	2673	2677	VV	2	5067	124585	1.36%	0.123%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.767	2677	2679	2682	VV 2	4911	98067	1.07%	0.097%
331	20.803	2682	2684	2686	VV	5023	75043	0.82%	0.074%
332	20.832	2686	2688	2694	VV 2	5034	173644	1.90%	0.172%
333	20.889	2694	2696	2703	VV 2	5351	201557	2.21%	0.199%
334	20.961	2703	2706	2710	VV	5359	142040	1.55%	0.140%
335	21.004	2710	2712	2714	VV	5260	99227	1.09%	0.098%
336	21.082	2714	2723	2724	VV 2	5179	215423	2.36%	0.213%
337	21.111	2724	2727	2729	VV 2	5266	104834	1.15%	0.104%
338	21.140	2729	2731	2733	VV 2	5336	87679	0.96%	0.087%
339	21.175	2733	2736	2740	VV 2	5379	157470	1.72%	0.156%
340	21.218	2740	2742	2745	VV	5200	110285	1.21%	0.109%
341	21.254	2745	2747	2749	VV	5231	76660	0.84%	0.076%
342	21.283	2749	2751	2756	VV 2	5455	159022	1.74%	0.157%
343	21.347	2756	2760	2764	VV 2	5253	163179	1.79%	0.161%
344	21.383	2764	2765	2767	VV	5271	78009	0.85%	0.077%
345	21.412	2767	2769	2772	VV	5284	116771	1.28%	0.115%
346	21.469	2772	2777	2781	VV	5452	191807	2.10%	0.190%
347	21.512	2781	2783	2786	VV	5826	121396	1.33%	0.120%
348	21.548	2786	2788	2795	VV	5371	195840	2.14%	0.194%
349	21.612	2795	2797	2801	VV	5421	121847	1.33%	0.120%
350	21.677	2801	2806	2810	VV 2	5450	206706	2.26%	0.204%
351	21.720	2810	2812	2814	VV	5388	107434	1.18%	0.106%
352	21.770	2814	2819	2823	VV	5494	184412	2.02%	0.182%
353	21.806	2823	2824	2832	VV 2	5587	224079	2.45%	0.222%
354	21.899	2832	2837	2839	VV 2	5344	142337	1.56%	0.141%
355	21.920	2839	2840	2842	VV	5487	78132	0.85%	0.077%
356	21.949	2842	2844	2847	VV 2	5525	125596	1.37%	0.124%
357	21.992	2847	2850	2852	VV	5534	101432	1.11%	0.100%
358	22.035	2852	2856	2858	VV	5462	142609	1.56%	0.141%
359	22.071	2858	2861	2863	VV	5655	114918	1.26%	0.114%
360	22.099	2863	2865	2867	VV 2	5559	94282	1.03%	0.093%
361	22.135	2867	2870	2872	VV 2	5477	116457	1.27%	0.115%
362	22.171	2872	2875	2877	VV 2	5565	117150	1.28%	0.116%
363	22.200	2877	2879	2882	VV 2	5598	112640	1.23%	0.111%
364	22.264	2882	2888	2890	VV 2	5555	169436	1.85%	0.167%
365	22.286	2890	2891	2894	VV	5578	99549	1.09%	0.098%
366	22.329	2894	2897	2899	VV 2	5499	112185	1.23%	0.111%
367	22.429	2899	2911	2922	VV 2	5729	540522	5.91%	0.534%
368	22.544	2922	2927	2930	VV 2	5528	194828	2.13%	0.193%
369	22.601	2930	2935	2937	VV 2	5651	166172	1.82%	0.164%
370	22.665	2937	2944	2953	VV 2	5717	362963	3.97%	0.359%
371	22.744	2953	2955	2960	VV 2	6328	185167	2.03%	0.183%
372	22.794	2960	2962	2966	VV 2	5680	135185	1.48%	0.134%
373	22.844	2966	2969	2971	VV 2	5680	131989	1.44%	0.130%
374	22.880	2971	2974	2982	VV 2	5769	252489	2.76%	0.250%
375	22.952	2982	2984	2985	VBA2	5682	70522	0.77%	0.070%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

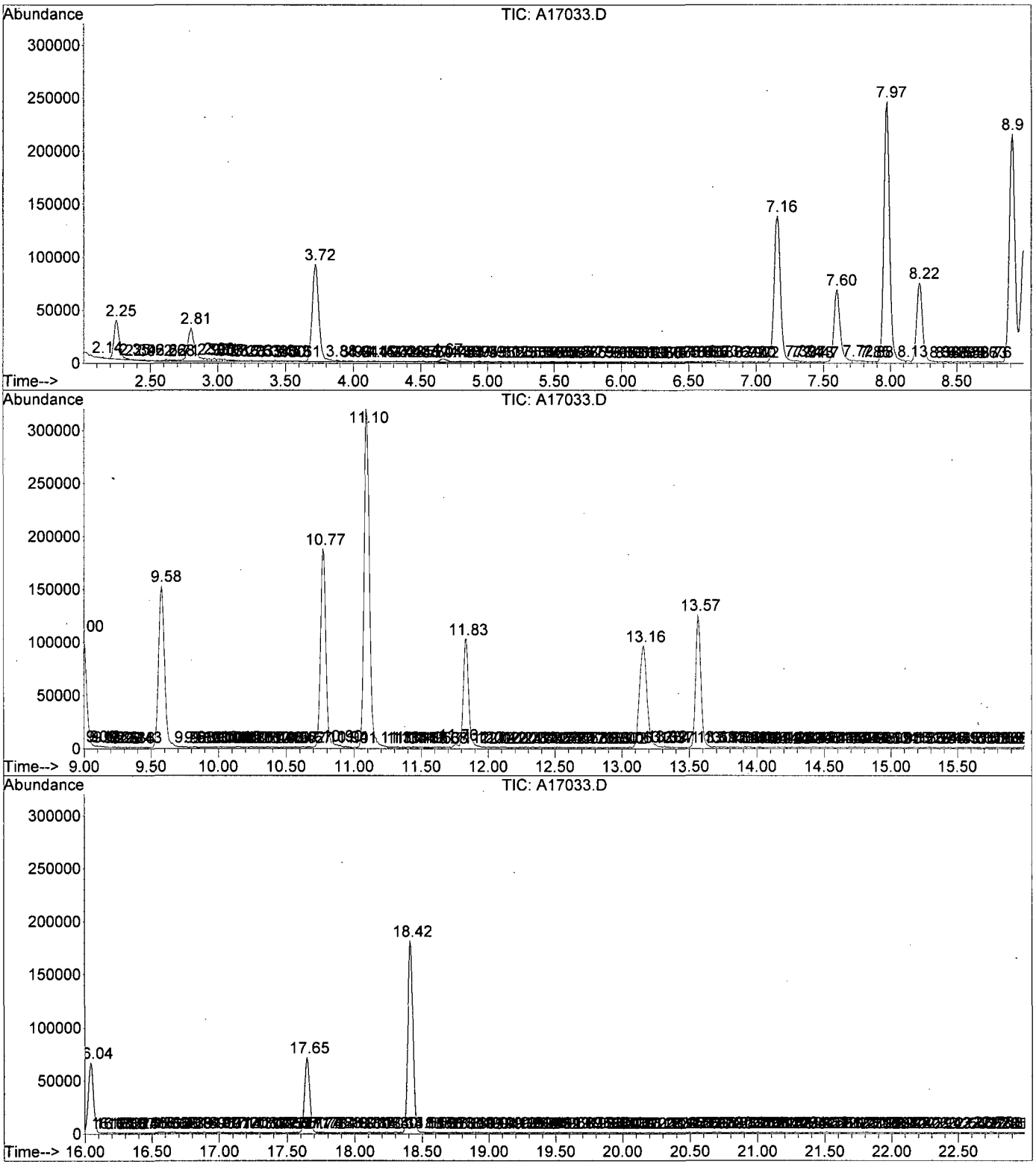
Sum of corrected areas: 101157639

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

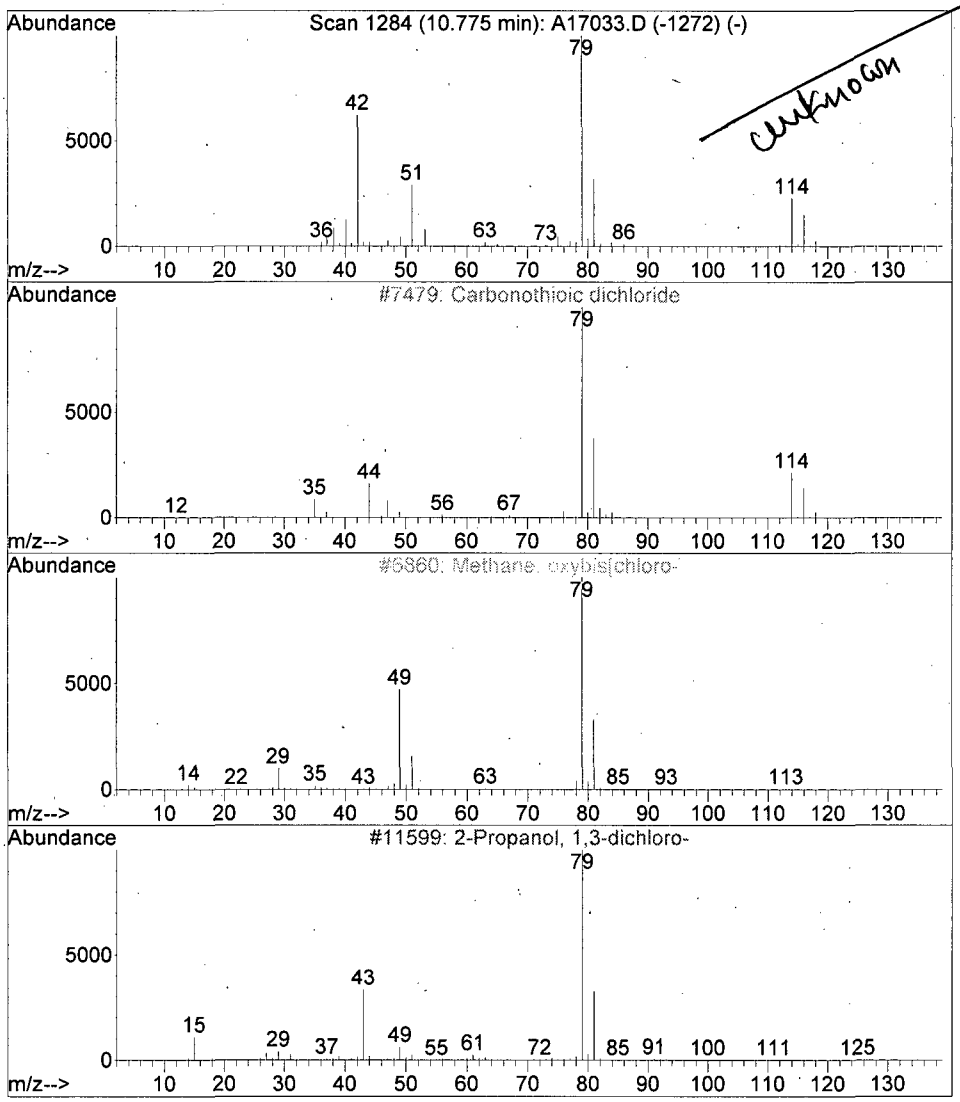
11/28/08

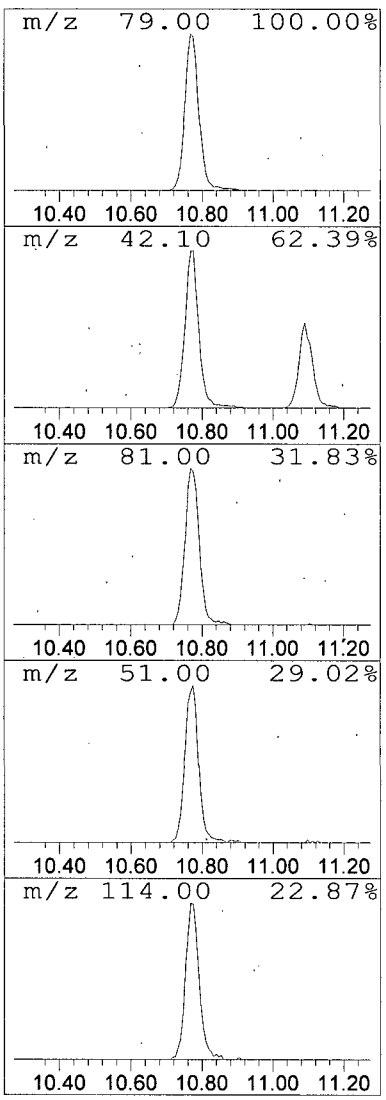
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	8.43 ug/L	5378260	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
4	2,3-Butanedione, dioxime	116	C4H8N2O2	000095-45-4	9
5	1,4-Cyclohexadiene	80	C6H8	000628-41-1	9





Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/28/08

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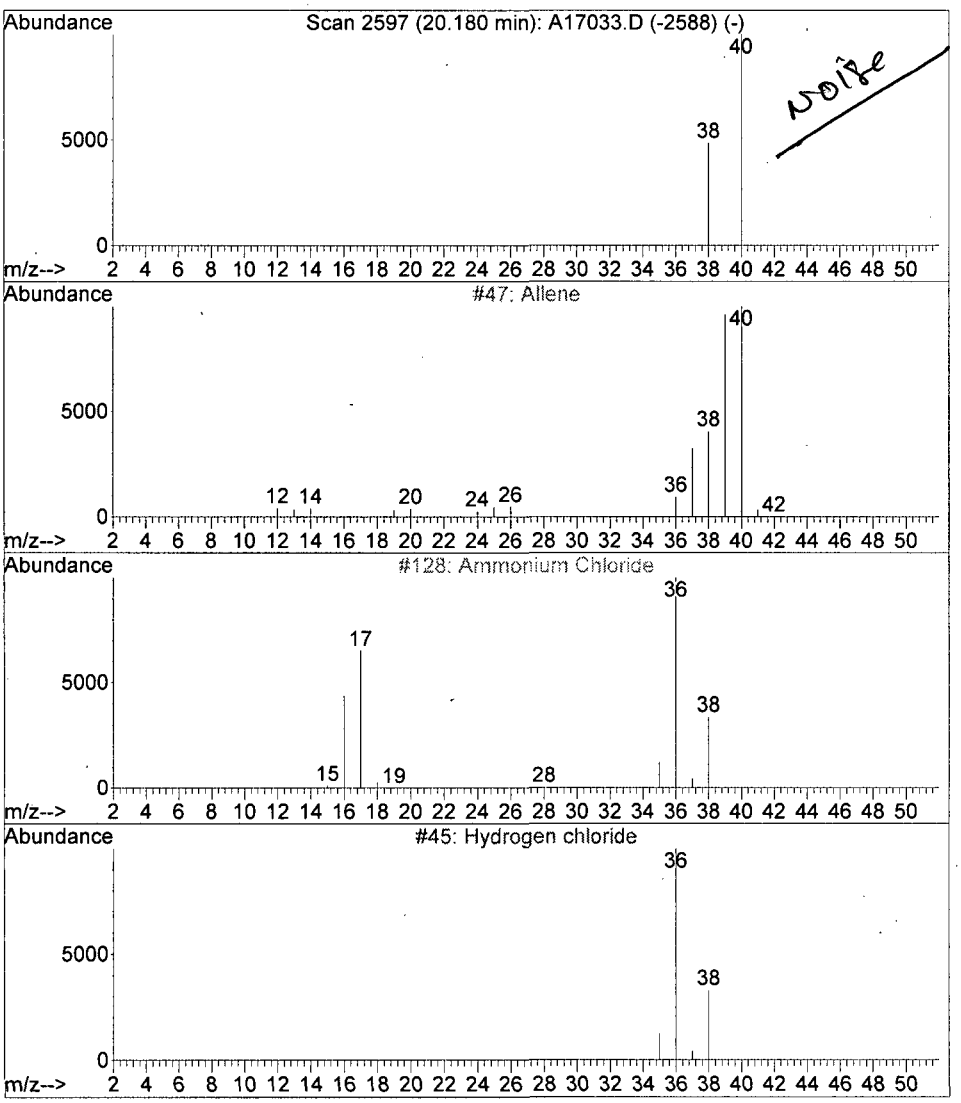
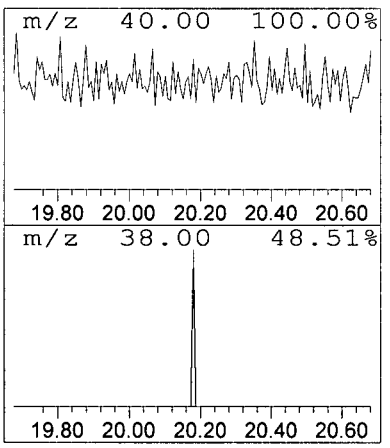
Peak Number 2 Allene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.18	0.64 ug/L	277789	1,4-Dichlorobenzene-d4	17.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Allene	40	C3H4	000463-49-0	5
2	Ammonium Chloride	53	ClH4N	012125-02-9	1
3	Hydrogen chloride	36	ClH	007647-01-0	1
4	Hydrogen chloride	36	ClH	007647-01-0	1
5	2-Chloroethylamine	79	C2H6ClN	000689-98-5	1





Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/28/08

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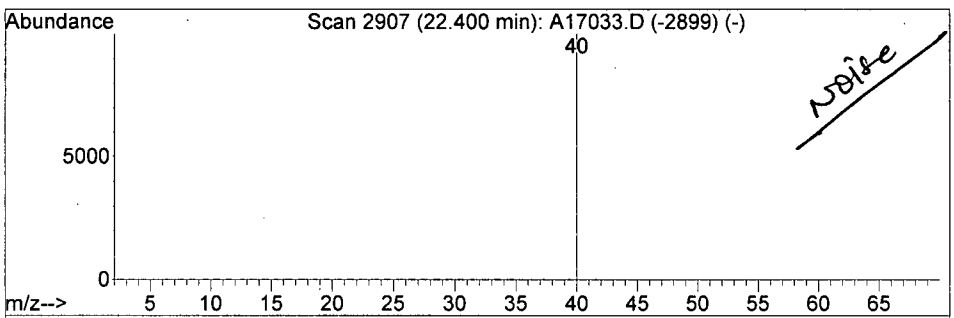
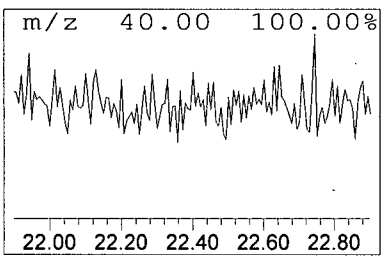
Peak Number 3 Allene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.40	0.87 ug/L	374415	1,4-Dichlorobenzene-d4	17.65

Hit# of 3	Tentative ID	MW	MolForm	CAS#	Qual
1	Allene	40	C3H4	000463-49-0	2
2	Argon	40	Ar	007440-37-1	2
3	Acetonitrile, hydroxy-	57	C2H3NO	000107-16-4	1





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

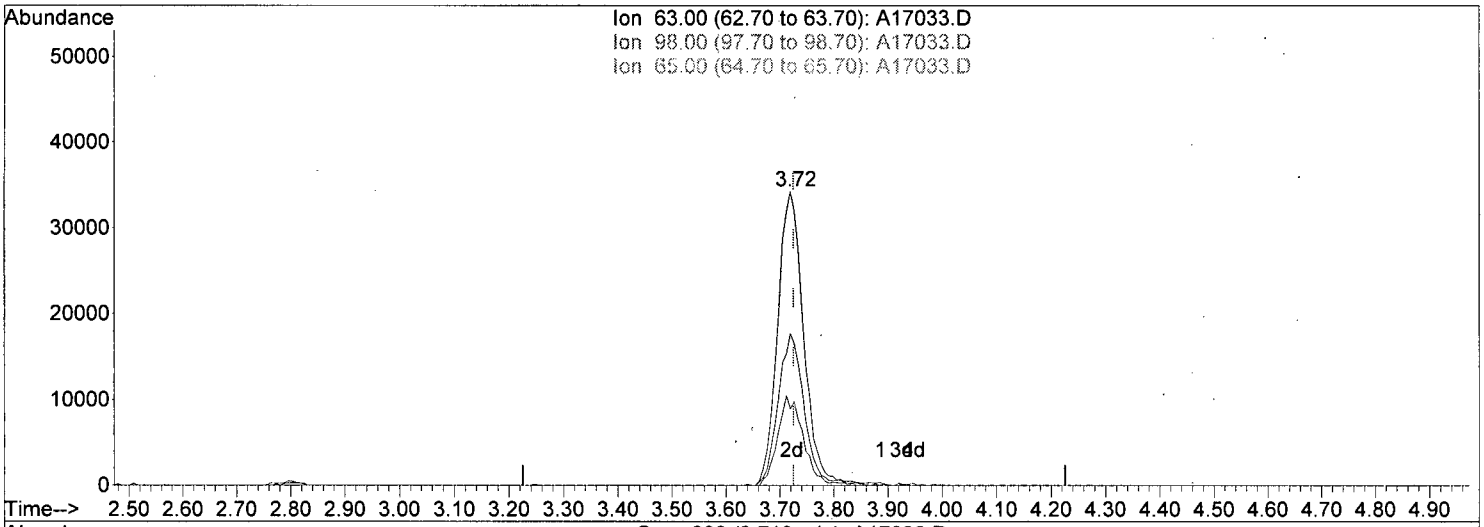
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

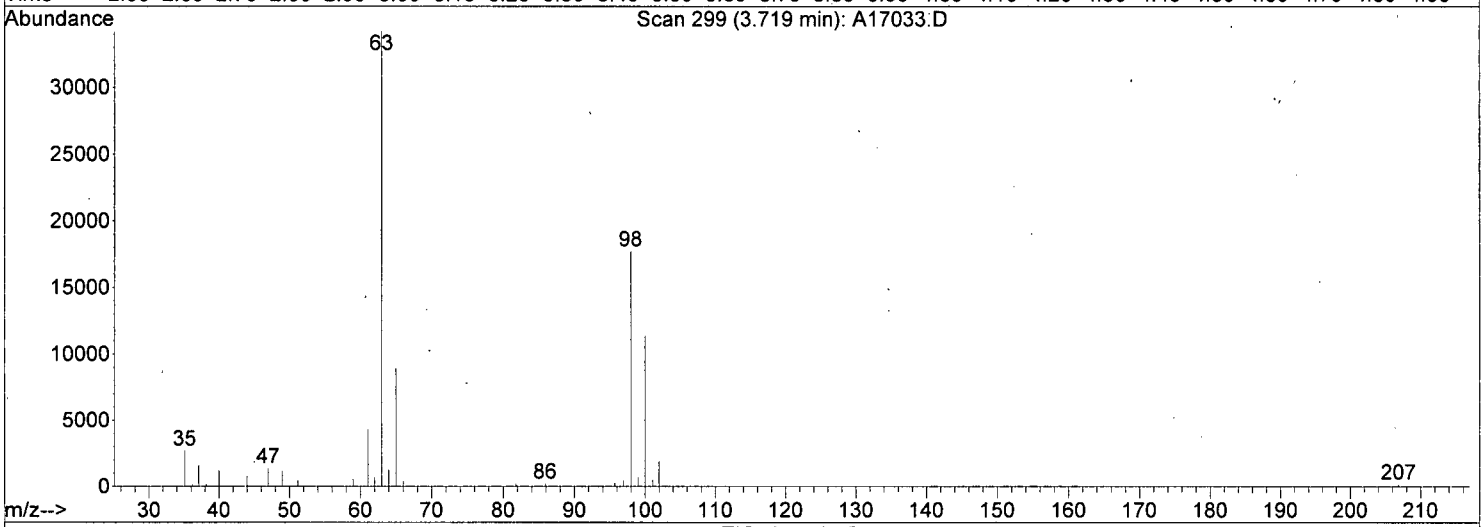
					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	8.4	ug/L	5378260	1	9.00	3189040	5.0
Allene	20.18	0.6	ug/L	277789	3	17.65	2161340	5.0
Allene	22.40	0.9	ug/L	374415	3	17.65	2161340	5.0

Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\A17033.D
Acq On : 11/26/08 21:51 Operator: SB
Sample : F2XF3DL 5X Inst : A-5973
Misc : S-2066.09DL 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 28 11:07:35 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration





TIC: A17033.D

(10) 1,1-Dichloroethene-d2 (S)

3.719min (-0.007) 2.99ug/L m

response 1148347

Ion	Exp%	Act%
63.00	100	100
98.00	69.50	0.39#
65.00	21.10	0.13#
0.00	0.00	0.00

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.10

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19506

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.10

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19506

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.10

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19506

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	1100	JB
02		Unknown-02	2.27	6.7	J
03		Unknown-03	9.84	8.4	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 14:30:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	3672541	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	3382956	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1214208	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2834554	5.42	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 108.40%			
7) Chloroethane-d5	2.39	69	1467606	6.20	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 124.00%			
10) 1,1-Dichloroethene-d2	3.12	63	4813303	4.58	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 91.60%			
21) 2-Butanone-d5	6.66	46	3161615	57.61	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 115.22%			
24) Chloroform-d	6.25	84	5282226	5.09	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 101.80%			
26) 1,2-Dichloroethane-d4	7.28	65	2586945	5.54	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 110.80%			
32) Benzene-d6	7.06	84	10658919	4.93	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 98.60%			
36) 1,2-Dichloropropane-d6	8.63	67	3207603	4.90	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 98.00%			
41) Toluene-d8	10.17	98	9134696	4.67	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 93.40%			
43) trans-1,3-Dichloropropene-	10.90	79	2727209	4.52	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 90.40%			
47) 2-Hexanone-d5	12.20	63	2272553	55.12	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 110.24%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1569122	4.34	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 86.80%			
63) 1,2-Dichlorobenzene-d4	17.48	152	2295819	4.84	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 96.80%			

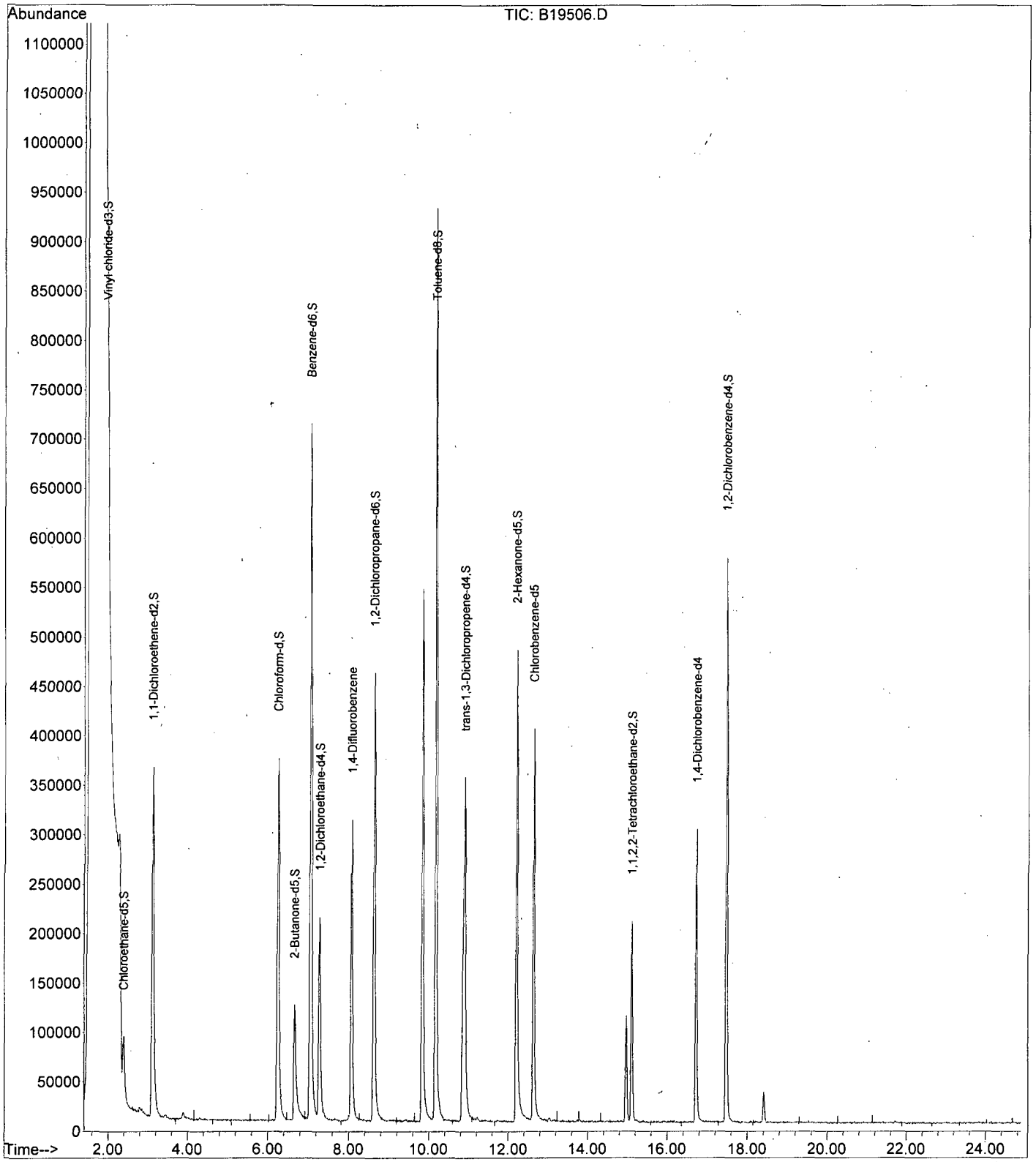
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 28 14:30:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	3	26	121	PH	17455942	2322095304	100.00%	84.555%
2	2.265	121	124	137	VV	292333	14077580	0.61%	0.513%
3	2.386	137	141	154	VV 2	89136	4148371	0.18%	0.151%
4	2.486	154	155	159	VV 4	21607	377143	0.02%	0.014%
5	2.522	159	160	163	VV 3	18574	284990	0.01%	0.010%
6	2.551	163	164	167	VV 3	16871	283157	0.01%	0.010%
7	2.615	167	173	190	VV 3	17234	1476725	0.06%	0.054%
8	2.751	190	192	195	VV 3	14816	255072	0.01%	0.009%
9	2.787	195	197	205	VV 2	17306	638040	0.03%	0.023%
10	2.851	205	206	226	VV 4	15686	1064673	0.05%	0.039%
11	3.123	226	244	260	VV	355097	13830440	0.60%	0.504%
12	3.244	260	261	275	VV 4	16883	711176	0.03%	0.026%
13	3.359	275	277	282	VV 3	9172	254703	0.01%	0.009%
14	3.444	282	289	296	VV 6	10294	559996	0.02%	0.020%
15	3.509	296	298	304	VV 4	7711	233813	0.01%	0.009%
16	3.566	304	306	312	VV	7008	204219	0.01%	0.007%
17	3.637	312	316	317	VV 3	7159	165304	0.01%	0.006%
18	3.666	317	320	324	VV 2	7140	179989	0.01%	0.007%
19	3.716	324	327	328	VV 2	7127	103625	0.00%	0.004%
20	3.759	328	333	335	VV 3	7309	186704	0.01%	0.007%
21	3.802	335	339	341	VV	7123	173314	0.01%	0.006%
22	3.888	341	351	359	VV 4	12938	688297	0.03%	0.025%
23	3.952	359	360	362	VV	9151	132276	0.01%	0.005%
24	3.995	362	366	370	VV 4	7997	234870	0.01%	0.009%
25	4.031	370	371	377	VV 3	7615	223062	0.01%	0.008%
26	4.109	377	382	388	VV 2	7217	310705	0.01%	0.011%
27	4.167	388	390	392	VV	13916	142995	0.01%	0.005%
28	4.195	392	394	397	VV 2	6817	140989	0.01%	0.005%
29	4.231	397	399	401	VV 3	7595	133422	0.01%	0.005%
30	4.302	401	409	412	VV 2	8421	324068	0.01%	0.012%
31	4.338	412	414	423	VV 4	7546	307686	0.01%	0.011%
32	4.417	423	425	426	VV 2	7624	103198	0.00%	0.004%
33	4.438	426	428	430	VV	8008	119824	0.01%	0.004%
34	4.481	430	434	436	VV 3	7100	173904	0.01%	0.006%
35	4.517	436	439	442	VV 2	6519	159586	0.01%	0.006%
36	4.603	442	451	454	VV	7036	338427	0.01%	0.012%
37	4.638	454	456	458	VV	7065	90789	0.00%	0.003%
38	4.674	458	461	465	VV 2	7164	218273	0.01%	0.008%
39	4.717	465	467	469	VV 3	6841	98707	0.00%	0.004%
40	4.753	469	472	474	VV	7300	132002	0.01%	0.005%
41	4.774	474	475	477	VV	7194	89015	0.00%	0.003%
42	4.810	477	480	484	VV 3	7505	205327	0.01%	0.007%
43	4.846	484	485	488	VV	7196	108054	0.00%	0.004%
44	4.882	488	490	491	VV 2	7058	92646	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.910	491	494	495	VV 2	7548	123436	0.01%	0.004%
46	4.946	495	499	503	VV 2	7709	223462	0.01%	0.008%
47	4.996	503	506	508	VV	7435	137131	0.01%	0.005%
48	5.025	508	510	512	VV 2	7591	129196	0.01%	0.005%
49	5.082	512	518	519	VV 2	7592	193267	0.01%	0.007%
50	5.103	519	521	526	VV 2	7414	191638	0.01%	0.007%
51	5.182	526	532	536	VV 2	7497	294811	0.01%	0.011%
52	5.253	536	542	545	VV 2	7476	271592	0.01%	0.010%
53	5.303	545	549	553	VV 2	7158	221299	0.01%	0.008%
54	5.375	553	559	566	VV 2	7142	367699	0.02%	0.013%
55	5.439	566	568	571	VV	7760	154890	0.01%	0.006%
56	5.475	571	573	577	VV 2	7720	177990	0.01%	0.006%
57	5.539	577	582	592	VV	8082	470316	0.02%	0.017%
58	5.625	592	594	596	VV 2	7178	121554	0.01%	0.004%
59	5.661	596	599	602	VV 2	7941	191002	0.01%	0.007%
60	5.704	602	605	608	VV	7675	198634	0.01%	0.007%
61	5.740	608	610	617	VV 2	7943	269953	0.01%	0.010%
62	5.833	617	623	627	VV 2	8473	299731	0.01%	0.011%
63	5.875	627	629	632	VV	8126	167210	0.01%	0.006%
64	5.904	632	633	640	VV	8133	255154	0.01%	0.009%
65	5.968	640	642	652	VV	7722	378567	0.02%	0.014%
66	6.054	652	654	660	VV 4	7854	269560	0.01%	0.010%
67	6.119	660	663	671	VV 2	8567	349850	0.02%	0.013%
68	6.254	671	682	710	VV	371480	14572105	0.63%	0.531%
69	6.469	710	712	714	VV	14740	173907	0.01%	0.006%
70	6.490	714	715	721	VV 3	9421	271794	0.01%	0.010%
71	6.569	721	726	730	VV 3	9551	360876	0.02%	0.013%
72	6.662	730	739	767	VV 2	125620	6440976	0.28%	0.235%
73	6.876	767	769	773	VV 2	13355	299849	0.01%	0.011%
74	6.912	773	774	777	VV	15456	188148	0.01%	0.007%
75	6.948	777	779	782	VV 2	11893	273726	0.01%	0.010%
76	7.055	782	794	816	VV	704926	24656772	1.06%	0.898%
77	7.277	816	825	858	VV 2	215760	9314135	0.40%	0.339%
78	7.527	858	860	865	VV 4	11124	291765	0.01%	0.011%
79	7.577	865	867	871	VV 2	11100	255033	0.01%	0.009%
80	7.642	871	876	877	VV 3	10803	275924	0.01%	0.010%
81	7.663	877	879	883	VV 4	11637	289476	0.01%	0.011%
82	7.706	883	885	892	VV 5	10336	378471	0.02%	0.014%
83	7.777	892	895	899	VV 2	10155	279090	0.01%	0.010%
84	7.820	899	901	903	VV	9521	127899	0.01%	0.005%
85	7.849	903	905	906	VV	9578	141947	0.01%	0.005%
86	7.870	906	908	911	VV	9942	205236	0.01%	0.007%
87	7.906	911	913	916	VV	9906	201721	0.01%	0.007%
88	7.999	916	926	928	VV 4	14923	548696	0.02%	0.020%
89	8.071	928	936	954	VV	311380	10555096	0.45%	0.384%
90	8.206	954	955	962	VV 2	13552	416905	0.02%	0.015%
91	8.271	962	964	969	VV	15202	344096	0.01%	0.013%

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	8.314	969	970	976	VV	4	11953	332807	0.01%	0.012%
93	8.385	976	980	982	VV	3	11363	291545	0.01%	0.011%
94	8.421	982	985	988	VV	2	10671	246777	0.01%	0.009%
95	8.471	988	992	996	VV	2	10948	354663	0.02%	0.013%
96	8.528	996	1000	1002	VV	2	10928	249751	0.01%	0.009%
97	8.635	1002	1015	1046	VV		458543	16357569	0.70%	0.596%
98	8.871	1046	1048	1050	VV	2	11969	202748	0.01%	0.007%
99	8.907	1050	1053	1057	VV	2	11503	295567	0.01%	0.011%
100	8.957	1057	1060	1063	VV	3	11095	298344	0.01%	0.011%
101	9.022	1063	1069	1072	VV	2	11759	392866	0.02%	0.014%
102	9.057	1072	1074	1076	VV		11966	213762	0.01%	0.008%
103	9.107	1076	1081	1086	VV	3	12062	461081	0.02%	0.017%
104	9.150	1086	1087	1091	VV		11784	245610	0.01%	0.009%
105	9.193	1091	1093	1098	VV		13224	320285	0.01%	0.012%
106	9.300	1098	1108	1111	VV	4	11800	589623	0.03%	0.021%
107	9.336	1111	1113	1116	VV	2	11119	244092	0.01%	0.009%
108	9.386	1116	1120	1122	VV	2	11922	271942	0.01%	0.010%
109	9.415	1122	1124	1126	VV	2	12419	231173	0.01%	0.008%
110	9.443	1126	1128	1133	VV	2	12541	334638	0.01%	0.012%
111	9.493	1133	1135	1137	VV	2	11662	155116	0.01%	0.006%
112	9.522	1137	1139	1141	VV	2	11503	214635	0.01%	0.008%
113	9.558	1141	1144	1147	VV		11705	266895	0.01%	0.010%
114	9.586	1147	1148	1152	VV	2	11251	212632	0.01%	0.008%
115	9.636	1152	1155	1160	VV		17423	440941	0.02%	0.016%
116	9.687	1160	1162	1164	VV	2	11323	164226	0.01%	0.006%
117	9.708	1164	1165	1172	VV	2	11149	357701	0.02%	0.013%
118	9.837	1172	1183	1207	VV	2	546707	17654557	0.76%	0.643%
119	10.023	1207	1209	1214	VV	5	16162	389156	0.02%	0.014%
120	10.073	1214	1216	1218	VV	2	14236	276378	0.01%	0.010%
121	10.101	1218	1220	1222	VV		19269	223699	0.01%	0.008%
122	10.173	1222	1230	1254	VV		927203	27048140	1.16%	0.985%
123	10.352	1254	1255	1258	VV	2	15936	275351	0.01%	0.010%
124	10.387	1258	1260	1269	VV	4	13747	581431	0.03%	0.021%
125	10.459	1269	1270	1272	VV	2	12890	183258	0.01%	0.007%
126	10.487	1272	1274	1276	VV	3	13467	203507	0.01%	0.007%
127	10.509	1276	1277	1286	VV	3	13628	548685	0.02%	0.020%
128	10.580	1286	1287	1294	VV	2	13055	412336	0.02%	0.015%
129	10.637	1294	1295	1299	VV	2	12729	260557	0.01%	0.009%
130	10.680	1299	1301	1303	VV	2	13522	209453	0.01%	0.008%
131	10.716	1303	1306	1311	VV	2	13163	432411	0.02%	0.016%
132	10.773	1311	1314	1316	VV	3	13505	264178	0.01%	0.010%
133	10.895	1316	1331	1361	VV	3	357663	18042186	0.78%	0.657%
134	11.117	1361	1362	1364	VV		16291	208245	0.01%	0.008%
135	11.159	1364	1368	1372	VV	3	15917	487342	0.02%	0.018%
136	11.224	1372	1377	1386	VV	5	17134	864232	0.04%	0.031%
137	11.302	1386	1388	1390	VV	2	13266	245169	0.01%	0.009%
138	11.331	1390	1392	1400	VV	5	14032	573274	0.02%	0.021%
139	11.410	1400	1403	1405	VV	3	14039	268544	0.01%	0.010%

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.431	1405	1406	1414	VV 2	14153	532379	0.02%	0.019%
141	11.510	1414	1417	1420	VV 2	13617	359003	0.02%	0.013%
142	11.553	1420	1423	1426	VV	14223	308231	0.01%	0.011%
143	11.596	1426	1429	1437	VV 2	13607	622422	0.03%	0.023%
144	11.667	1437	1439	1443	VV	13563	329352	0.01%	0.012%
145	11.717	1443	1446	1449	VV	14374	316934	0.01%	0.012%
146	11.746	1449	1450	1454	VV 2	14002	320240	0.01%	0.012%
147	11.789	1454	1456	1457	VV	13826	170941	0.01%	0.006%
148	11.810	1457	1459	1467	VV 3	13795	579780	0.02%	0.021%
149	11.903	1467	1472	1476	VV 3	14256	515220	0.02%	0.019%
150	11.953	1476	1479	1483	VV 2	13901	358215	0.02%	0.013%
151	11.996	1483	1485	1487	VV 2	14056	272322	0.01%	0.010%
152	12.032	1487	1490	1494	VV 3	13424	354866	0.02%	0.013%
153	12.068	1494	1495	1504	VV 3	13792	568950	0.02%	0.021%
154	12.203	1504	1514	1539	VV 2	487235	16254344	0.70%	0.592%
155	12.389	1539	1540	1553	VV 6	19808	1106945	0.05%	0.040%
156	12.489	1553	1554	1560	VV 2	17103	442467	0.02%	0.016%
157	12.547	1560	1562	1564	VV 2	16568	333960	0.01%	0.012%
158	12.640	1564	1575	1591	VV	410840	12790546	0.55%	0.466%
159	12.768	1591	1593	1599	VV 6	20273	616524	0.03%	0.022%
160	12.833	1599	1602	1605	VV 3	17060	399481	0.02%	0.015%
161	12.876	1605	1608	1610	VV 3	16458	363150	0.02%	0.013%
162	12.911	1610	1613	1617	VV 2	16762	487174	0.02%	0.018%
163	12.954	1617	1619	1624	VV 2	15922	411281	0.02%	0.015%
164	13.033	1624	1630	1639	VV 3	17973	1048593	0.05%	0.038%
165	13.162	1639	1648	1653	VV 3	16406	944458	0.04%	0.034%
166	13.226	1653	1657	1659	VV	21817	447405	0.02%	0.016%
167	13.255	1659	1661	1666	VV 4	15137	411337	0.02%	0.015%
168	13.319	1666	1670	1671	VV 2	15276	333997	0.01%	0.012%
169	13.355	1671	1675	1676	VV	15560	302963	0.01%	0.011%
170	13.376	1676	1678	1680	VV 2	16305	271032	0.01%	0.010%
171	13.405	1680	1682	1687	VV 2	15426	424972	0.02%	0.015%
172	13.469	1687	1691	1694	VV 2	14898	448466	0.02%	0.016%
173	13.526	1694	1699	1701	VV 3	15988	446395	0.02%	0.016%
174	13.555	1701	1703	1704	VV 2	15558	200873	0.01%	0.007%
175	13.576	1704	1706	1709	VV 2	15158	264627	0.01%	0.010%
176	13.612	1709	1711	1718	VV 3	15317	607850	0.03%	0.022%
177	13.684	1718	1721	1724	VV	15004	374176	0.02%	0.014%
178	13.734	1724	1728	1732	VV 4	16399	523080	0.02%	0.019%
179	13.776	1732	1734	1741	VV	23631	680195	0.03%	0.025%
180	13.841	1741	1743	1746	VV	15252	294659	0.01%	0.011%
181	13.891	1746	1750	1758	VV 3	16041	766327	0.03%	0.028%
182	14.055	1758	1773	1777	VV 2	15822	1254494	0.05%	0.046%
183	14.113	1777	1781	1786	VV 2	16131	574470	0.02%	0.021%
184	14.177	1786	1790	1792	VV 3	15536	369155	0.02%	0.013%
185	14.198	1792	1793	1795	VV	15638	216035	0.01%	0.008%
186	14.263	1795	1802	1804	VV 2	15950	570188	0.02%	0.021%

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.291	1804	1806	1807	VV		15914	218971	0.01%	0.008%
188	14.334	1807	1812	1815	VV		21883	566438	0.02%	0.021%
189	14.399	1815	1821	1824	VV	2	16174	557825	0.02%	0.020%
190	14.463	1824	1830	1843	VV	3	15691	1255337	0.05%	0.046%
191	14.570	1843	1845	1849	VV		17023	386923	0.02%	0.014%
192	14.606	1849	1850	1854	VV	2	15943	365574	0.02%	0.013%
193	14.663	1854	1858	1861	VV	2	16125	467828	0.02%	0.017%
194	14.699	1861	1863	1864	VV		16084	218204	0.01%	0.008%
195	14.756	1864	1871	1877	VV	3	16702	828341	0.04%	0.030%
196	14.849	1877	1884	1887	VV	2	16590	705833	0.03%	0.026%
197	14.892	1887	1890	1892	VV	2	15945	326127	0.01%	0.012%
198	14.978	1892	1902	1912	VV	2	121850	4371070	0.19%	0.159%
199	15.114	1912	1921	1938	VV	2	217673	7249864	0.31%	0.264%
200	15.249	1938	1940	1944	VV	2	17899	420138	0.02%	0.015%
201	15.292	1944	1946	1949	VV	2	17216	368272	0.02%	0.013%
202	15.335	1949	1952	1954	VV	3	16540	315431	0.01%	0.011%
203	15.364	1954	1956	1958	VV	2	17064	266084	0.01%	0.010%
204	15.392	1958	1960	1964	VV	2	17664	444627	0.02%	0.016%
205	15.428	1964	1965	1978	VV	2	16655	980594	0.04%	0.036%
206	15.535	1978	1980	1982	VV	2	16548	288464	0.01%	0.011%
207	15.564	1982	1984	1990	VV		16600	520847	0.02%	0.019%
208	15.628	1990	1993	1996	VV	2	16390	439212	0.02%	0.016%
209	15.671	1996	1999	2001	VV	3	17742	321860	0.01%	0.012%
210	15.700	2001	2003	2010	VV	2	16964	647948	0.03%	0.024%
211	15.771	2010	2013	2018	VV	3	17787	594912	0.03%	0.022%
212	15.836	2018	2022	2024	VV	2	17027	374394	0.02%	0.014%
213	15.857	2024	2025	2027	VV		17038	235433	0.01%	0.009%
214	15.900	2027	2031	2035	VV	3	17966	572388	0.02%	0.021%
215	15.943	2035	2037	2045	VV	3	18094	740221	0.03%	0.027%
216	16.007	2045	2046	2050	VV	2	17532	345249	0.01%	0.013%
217	16.043	2050	2051	2053	VV		17502	241186	0.01%	0.009%
218	16.086	2053	2057	2059	VV	3	18281	436610	0.02%	0.016%
219	16.107	2059	2060	2067	VV	2	18049	606255	0.03%	0.022%
220	16.172	2067	2069	2074	VV		18172	486771	0.02%	0.018%
221	16.222	2074	2076	2077	VV		17241	236493	0.01%	0.009%
222	16.250	2077	2080	2082	VV	2	17628	363406	0.02%	0.013%
223	16.279	2082	2084	2095	VV	3	16954	893605	0.04%	0.033%
224	16.365	2095	2096	2103	VV		17272	583897	0.03%	0.021%
225	16.429	2103	2105	2107	VV		17990	289146	0.01%	0.011%
226	16.465	2107	2110	2114	VV	2	17755	528345	0.02%	0.019%
227	16.508	2114	2116	2117	VV	2	17330	250513	0.01%	0.009%
228	16.558	2117	2123	2125	VV	3	17800	603679	0.03%	0.022%
229	16.587	2125	2127	2129	VV		18385	270259	0.01%	0.010%
230	16.615	2129	2131	2132	VV		17633	224743	0.01%	0.008%
231	16.629	2132	2133	2136	VV		17820	265855	0.01%	0.010%
232	16.722	2136	2146	2173	VV		313479	10642298	0.46%	0.388%
233	16.923	2173	2174	2176	VV		18300	218389	0.01%	0.008%
234	16.965	2176	2180	2185	VV	4	19320	680446	0.03%	0.025%

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	17.008	2185	2186	2193	VV 3	18452	661727	0.03%	0.024%
236	17.080	2193	2196	2203	VV 2	18574	772503	0.03%	0.028%
237	17.144	2203	2205	2211	VV	18769	636468	0.03%	0.023%
238	17.201	2211	2213	2216	VV 2	18910	361454	0.02%	0.013%
239	17.237	2216	2218	2220	VV	18991	304747	0.01%	0.011%
240	17.266	2220	2222	2224	VV	19274	304000	0.01%	0.011%
241	17.309	2224	2228	2230	VV	18288	505320	0.02%	0.018%
242	17.344	2230	2233	2237	VV	18544	507955	0.02%	0.018%
243	17.387	2237	2239	2241	VV	19086	324498	0.01%	0.012%
244	17.473	2241	2251	2276	VV	576650	17433273	0.75%	0.635%
245	17.673	2276	2279	2281	VV 3	19838	375215	0.02%	0.014%
246	17.702	2281	2283	2288	VV 2	19567	610460	0.03%	0.022%
247	17.752	2288	2290	2294	VV 2	19896	422667	0.02%	0.015%
248	17.788	2294	2295	2298	VV	19457	320313	0.01%	0.012%
249	17.823	2298	2300	2302	VV	18487	294034	0.01%	0.011%
250	17.859	2302	2305	2307	VV	19734	418271	0.02%	0.015%
251	17.902	2307	2311	2315	VV 2	19439	689095	0.03%	0.025%
252	17.938	2315	2316	2322	VV 2	18988	587448	0.03%	0.021%
253	17.995	2322	2324	2326	VV 2	18458	298369	0.01%	0.011%
254	18.045	2326	2331	2333	VV 2	18979	500125	0.02%	0.018%
255	18.081	2333	2336	2338	VV	20191	440262	0.02%	0.016%
256	18.102	2338	2339	2344	VV	19675	495633	0.02%	0.018%
257	18.152	2344	2346	2348	VV	20669	353401	0.02%	0.013%
258	18.202	2348	2353	2354	VV 2	19913	445076	0.02%	0.016%
259	18.231	2354	2357	2359	VV 2	19771	419559	0.02%	0.015%
260	18.260	2359	2361	2363	VV 2	19374	320154	0.01%	0.012%
261	18.303	2363	2367	2369	VV	19195	511459	0.02%	0.019%
262	18.345	2369	2373	2374	VV	19938	420177	0.02%	0.015%
263	18.410	2374	2382	2390	VV	49049	2107778	0.09%	0.077%
264	18.481	2390	2392	2393	VV	19355	249184	0.01%	0.009%
265	18.510	2393	2396	2399	VV	19922	434907	0.02%	0.016%
266	18.546	2399	2401	2405	VV 2	19899	536293	0.02%	0.020%
267	18.589	2405	2407	2410	VV 2	19949	421166	0.02%	0.015%
268	18.631	2410	2413	2415	VV 3	19453	414659	0.02%	0.015%
269	18.660	2415	2417	2420	VV	19920	346348	0.01%	0.013%
270	18.696	2420	2422	2435	VV 2	19898	1249089	0.05%	0.045%
271	18.839	2435	2442	2446	VV 2	20150	938630	0.04%	0.034%
272	18.882	2446	2448	2454	VV 2	20283	684248	0.03%	0.025%
273	18.968	2454	2460	2470	VV 2	20036	1348548	0.06%	0.049%
274	19.068	2470	2474	2484	VV 2	20252	1133962	0.05%	0.041%
275	19.196	2484	2492	2495	VV 2	20242	967579	0.04%	0.035%
276	19.239	2495	2498	2504	VV 2	20905	766571	0.03%	0.028%
277	19.296	2504	2506	2515	VV	24167	931820	0.04%	0.034%
278	19.382	2515	2518	2521	VV 2	20208	567572	0.02%	0.021%
279	19.432	2521	2525	2528	VV 3	20149	561917	0.02%	0.020%
280	19.482	2528	2532	2535	VV 2	20662	628429	0.03%	0.023%
281	19.525	2535	2538	2547	VV	21589	1032513	0.04%	0.038%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.611	2547	2550	2558	VV 2	20823	910554	0.04%	0.033%
283	19.683	2558	2560	2565	VV 3	20329	621876	0.03%	0.023%
284	19.733	2565	2567	2573	VV 2	20914	764795	0.03%	0.028%
285	19.804	2573	2577	2581	VV 2	20858	690893	0.03%	0.025%
286	19.854	2581	2584	2593	VV 2	21309	1031149	0.04%	0.038%
287	19.947	2593	2597	2600	VV 2	21360	599670	0.03%	0.022%
288	19.983	2600	2602	2605	VV 2	21387	482620	0.02%	0.018%
289	20.040	2605	2610	2613	VV 3	20596	663237	0.03%	0.024%
290	20.083	2613	2616	2625	VV 2	21369	1053717	0.05%	0.038%
291	20.176	2625	2629	2638	VV 2	21313	1163244	0.05%	0.042%
292	20.269	2638	2642	2668	VV	26232	2698152	0.12%	0.098%
293	20.498	2668	2674	2680	VV 2	21535	1111917	0.05%	0.040%
294	20.583	2680	2686	2689	VV 3	21797	768573	0.03%	0.028%
295	20.684	2689	2700	2711	VV 3	22329	1974175	0.09%	0.072%
296	20.777	2711	2713	2721	VV 2	21765	934211	0.04%	0.034%
297	20.912	2721	2732	2738	VV 2	22412	1551583	0.07%	0.056%
298	20.970	2738	2740	2748	VV 2	22051	911605	0.04%	0.033%
299	21.048	2748	2751	2759	VV	21829	1004783	0.04%	0.037%
300	21.134	2759	2763	2768	VV	27512	894168	0.04%	0.033%
301	21.198	2768	2772	2785	VV 2	22391	1540980	0.07%	0.056%
302	21.299	2785	2786	2789	VV 2	22022	384509	0.02%	0.014%
303	21.327	2789	2790	2792	VV	22802	342888	0.01%	0.012%
304	21.406	2792	2801	2810	VV 2	23312	1702196	0.07%	0.062%
305	21.520	2810	2817	2822	VV 3	22540	1128889	0.05%	0.041%
306	21.606	2822	2829	2839	VV 2	22834	1626431	0.07%	0.059%
307	21.699	2839	2842	2859	VV 5	23878	1878020	0.08%	0.068%
308	21.828	2859	2860	2874	VV 2	22387	1486941	0.06%	0.054%
309	21.963	2874	2879	2886	VV 2	22793	1102045	0.05%	0.040%
310	22.049	2886	2891	2895	VV 2	23186	898949	0.04%	0.033%
311	22.099	2895	2898	2910	VV 3	22940	1404869	0.06%	0.051%
312	22.207	2910	2913	2916	VV 2	23857	624407	0.03%	0.023%
313	22.257	2916	2920	2923	VV 2	23314	631180	0.03%	0.023%
314	22.300	2923	2926	2933	VV 2	23478	982382	0.04%	0.036%
315	22.357	2933	2934	2939	VV 2	23756	610067	0.03%	0.022%
316	22.414	2939	2942	2944	VV 2	24156	561737	0.02%	0.020%
317	22.443	2944	2946	2951	VV	23650	658184	0.03%	0.024%
318	22.500	2951	2954	2956	VV	22773	439627	0.02%	0.016%
319	22.528	2956	2958	2974	VV 2	23395	1822815	0.08%	0.066%
320	22.693	2974	2981	2987	VV	23615	1222756	0.05%	0.045%
321	22.764	2987	2991	3001	VV 3	23605	1395597	0.06%	0.051%
322	22.857	3001	3004	3013	VV 2	23690	1173204	0.05%	0.043%
323	22.965	3013	3019	3023	VV 2	23792	1095670	0.05%	0.040%
324	23.015	3023	3026	3029	VV 2	24341	541573	0.02%	0.020%
325	23.065	3029	3033	3043	VV 3	24266	1451032	0.06%	0.053%
326	23.165	3043	3047	3050	VV	24070	724198	0.03%	0.026%
327	23.208	3050	3053	3057	VV 2	23977	654856	0.03%	0.024%
328	23.236	3057	3057	3072	VV 2	24377	1506730	0.06%	0.055%
329	23.365	3072	3075	3085	VV 3	24571	1413610	0.06%	0.051%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	23.458	3085	3088	3093	VV	24804	750047	0.03%	0.027%
331	23.537	3093	3099	3103	VV 2	24674	1076047	0.05%	0.039%
332	23.587	3103	3106	3120	VV 2	25098	1752577	0.08%	0.064%
333	23.737	3120	3127	3138	VV 5	25041	1915491	0.08%	0.070%
334	23.830	3138	3140	3152	VV 2	26090	1429468	0.06%	0.052%
335	23.937	3152	3155	3159	VV 2	25681	759436	0.03%	0.028%
336	23.987	3159	3162	3165	VV	25093	611499	0.03%	0.022%
337	24.023	3165	3167	3175	VV	27800	1089883	0.05%	0.040%
338	24.144	3175	3184	3187	VV	26230	1330792	0.06%	0.048%
339	24.230	3187	3196	3204	VV 4	25753	1824356	0.08%	0.066%
340	24.359	3204	3214	3224	VV 2	26379	2144990	0.09%	0.078%
341	24.552	3224	3241	3252	VV 2	26461	3034254	0.13%	0.110%
342	24.666	3252	3257	3274	VV 2	29924	2479944	0.11%	0.090%
343	24.831	3274	3280	3281	VBA	26516	750561	0.03%	0.027%

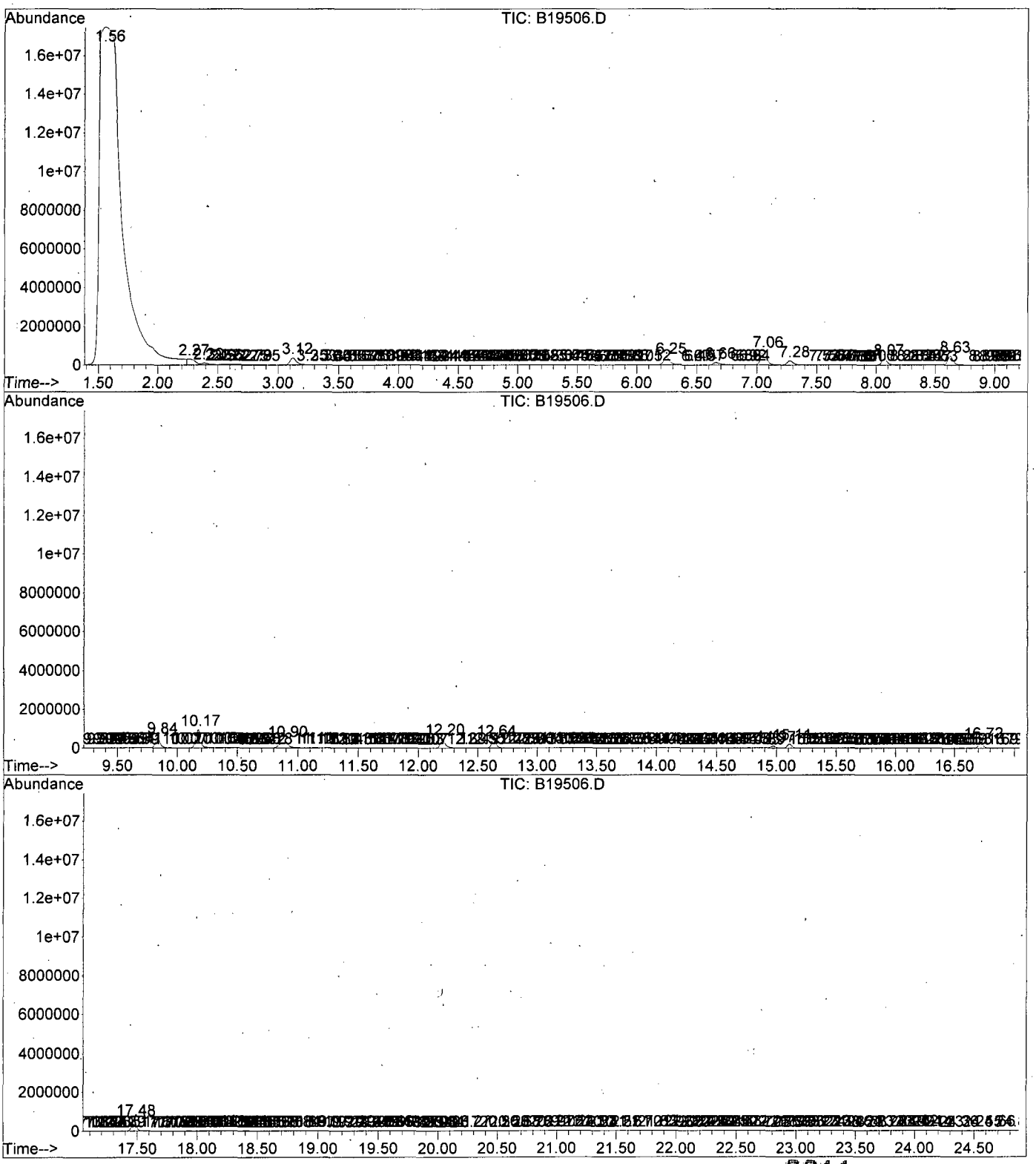
Sum of corrected areas: 2746241387

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



0311

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

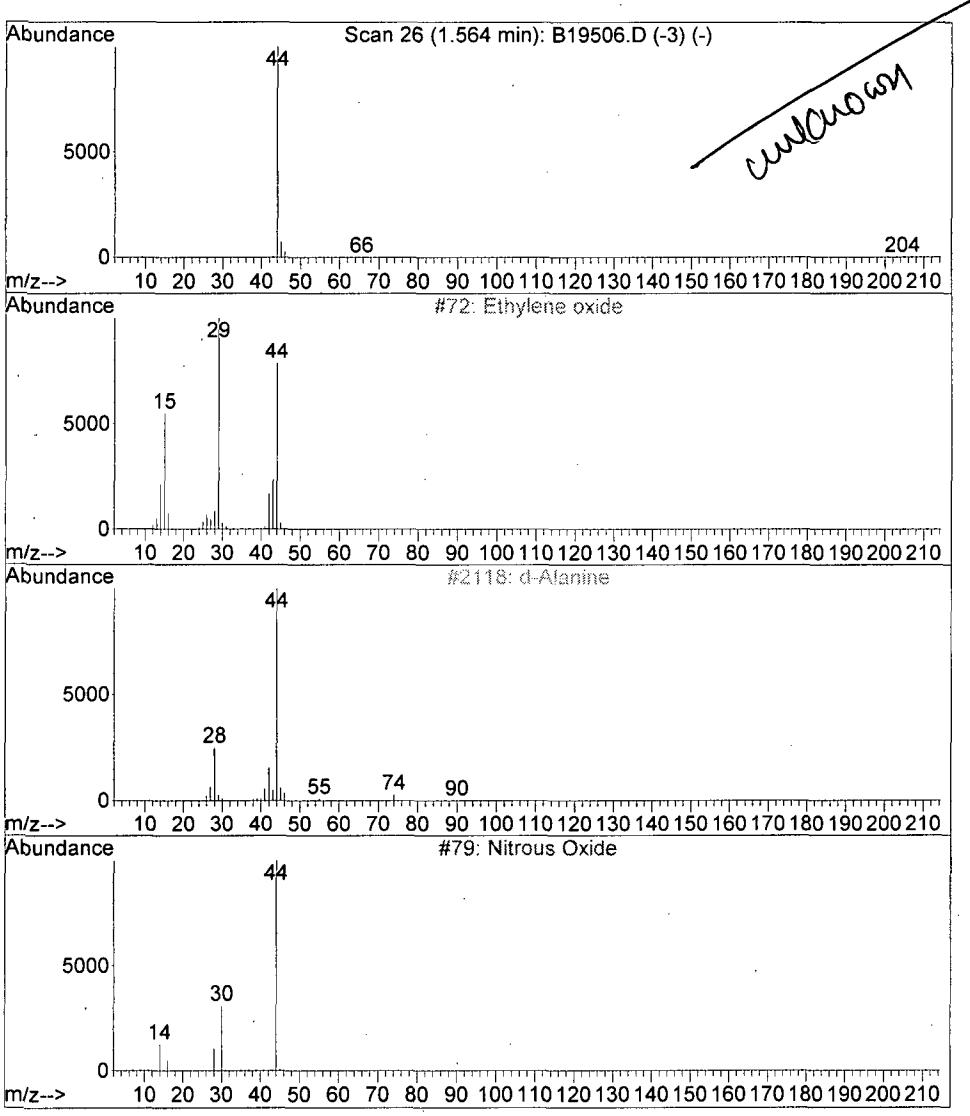
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

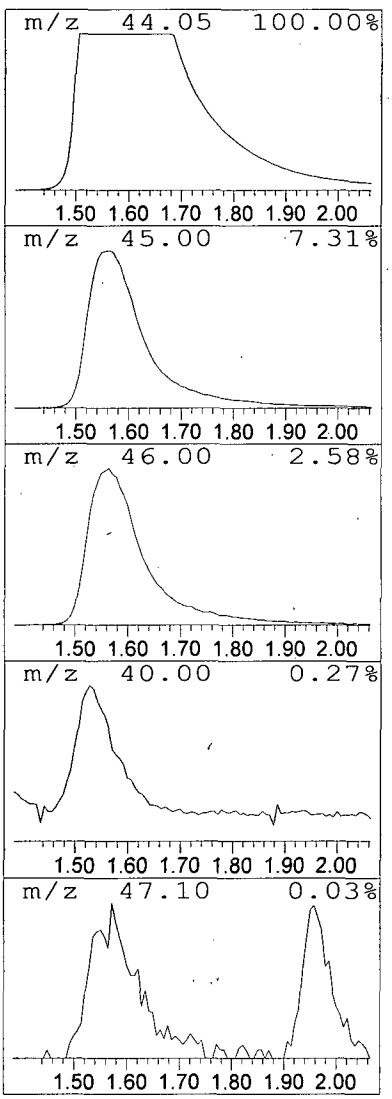
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	1099.99 ug/L	2322100000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	d-Alanine	89	C3H7NO2	000338-69-2	2
3	Nitrous Oxide	44	N2O	010024-97-2	2
4	Alanine	89	C3H7NO2	000056-41-7	2
5	Carbon dioxide	44	CO2	000124-38-9	2





0312

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

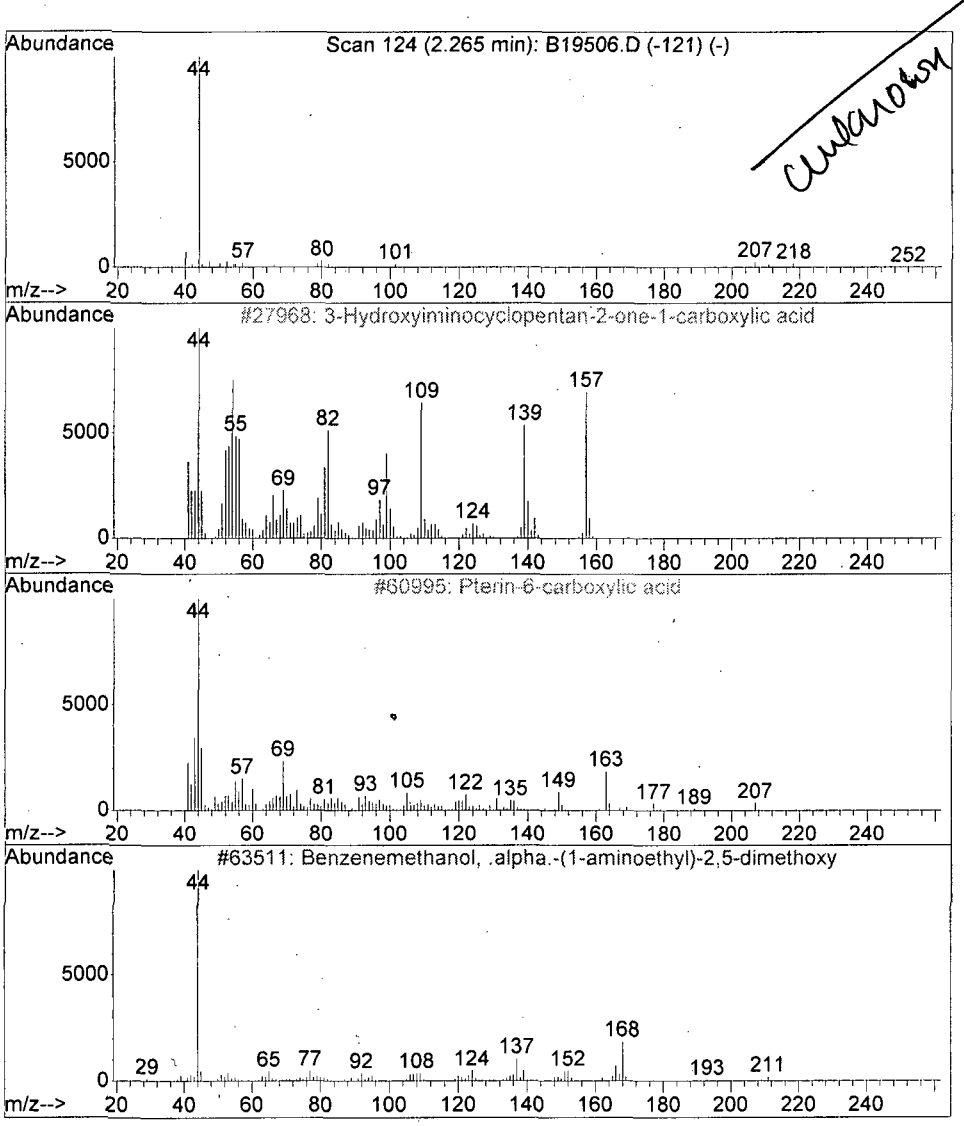
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

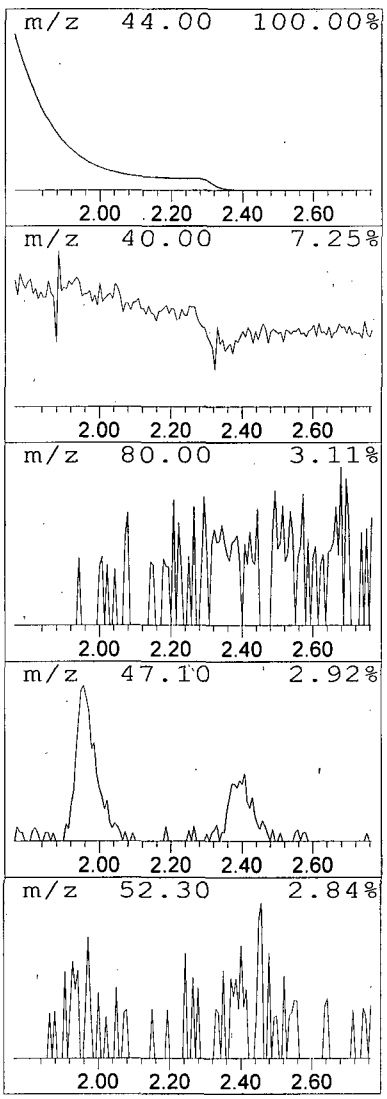
****

Peak Number 2 3-Hydroxyiminocyclopentan-2... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.27	6.67 ug/L	14077600	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hydroxyiminocyclopentan-2-one-...	157	C6H7NO4	1000128-92-0	4
2	Pterin-6-carboxylic acid	207	C7H5N5O3	000948-60-7	4
3	Benzenemethanol, .alpha.-(1-amin...	211	C11H17NO3	000390-28-3	3
4	2-Pentanamine, 4-methyl-	101	C6H15N	000108-09-8	3
5	2-Hexanamine	101	C6H15N	005329-79-3	3





Calculation

0313

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

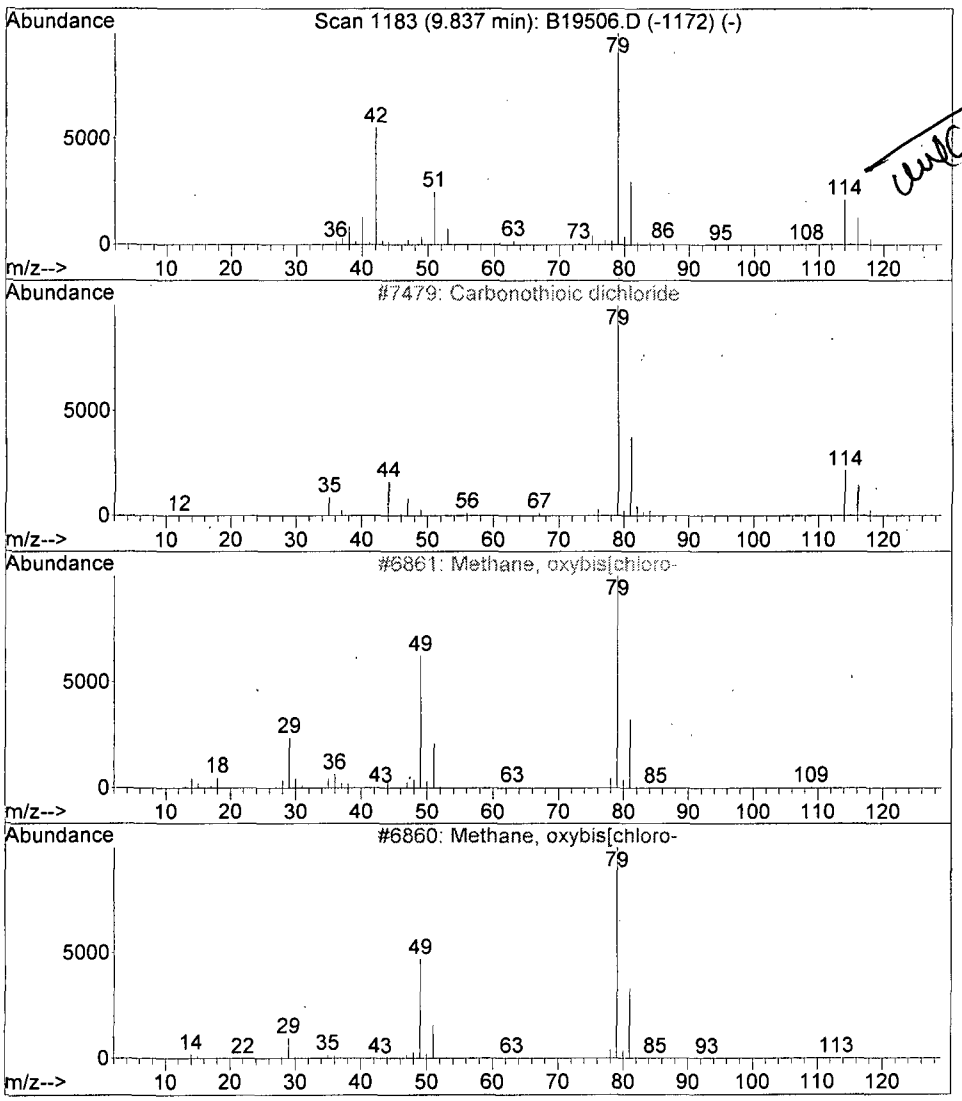
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

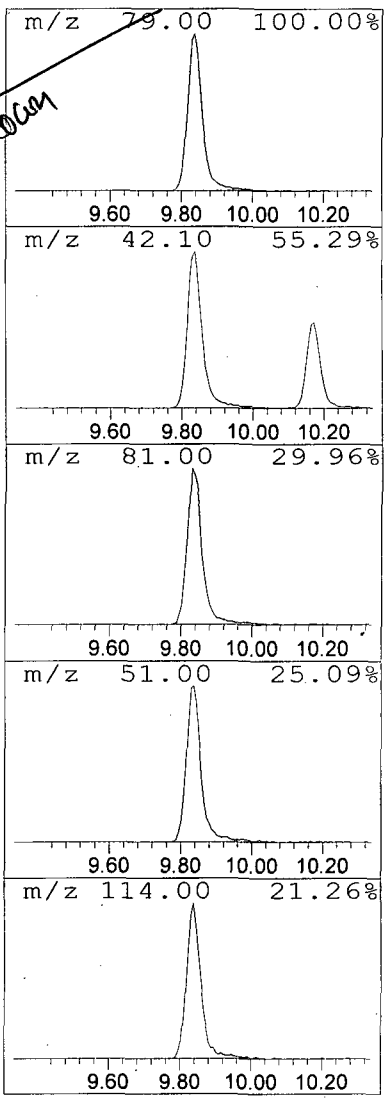
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	8.36 ug/L	17654600	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	Cyclopropane	42	C3H6	000075-19-4	9
5	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19506.D
Acq On : 11/26/08 02:29 Operator: SB
Sample : F2XF4 Inst : B-5973
Misc : S-2066.10 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	1100.0	ug/L	2322100000	1	8.07	10555100	5.0
3-Hydroxyiminocyc...	2.27	6.7	ug/L	14077600	1	8.07	10555100	5.0
Carbonothioic dic...	9.84	8.4	ug/L	17654600	1	8.07	10555100	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.11

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17046

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.11

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17046

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.11

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17046

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	10	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 11:49:20 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1277419	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1133671	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	361406	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	754311	4.53	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 90.60%			
7) Chloroethane-d5	2.80	69	498374	5.06	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 101.20%			
10) 1,1-Dichloroethene-d2	3.72	63	1499680	3.66	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 73.20%			
21) 2-Butanone-d5	7.60	46	1336169	44.65	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 89.30%			
24) Chloroform-d	7.16	84	2055807	4.55	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 91.00%			
26) 1,2-Dichloroethane-d4	8.22	65	927713	5.14	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 102.80%			
32) Benzene-d6	7.97	84	3903797	4.67	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 93.40%			
36) 1,2-Dichloropropane-d6	9.58	67	1172058	4.72	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 94.40%			
41) Toluene-d8	11.10	98	3869166	5.05	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 101.00%			
43) trans-1,3-Dichloropropene-	11.84	79	946045	4.37	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 87.40%			
47) 2-Hexanone-d5	13.14	63	577235	46.19	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 92.38%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	586206	4.96	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 99.20%			
63) 1,2-Dichlorobenzene-d4	18.42	152	932798	5.68	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 113.60%			

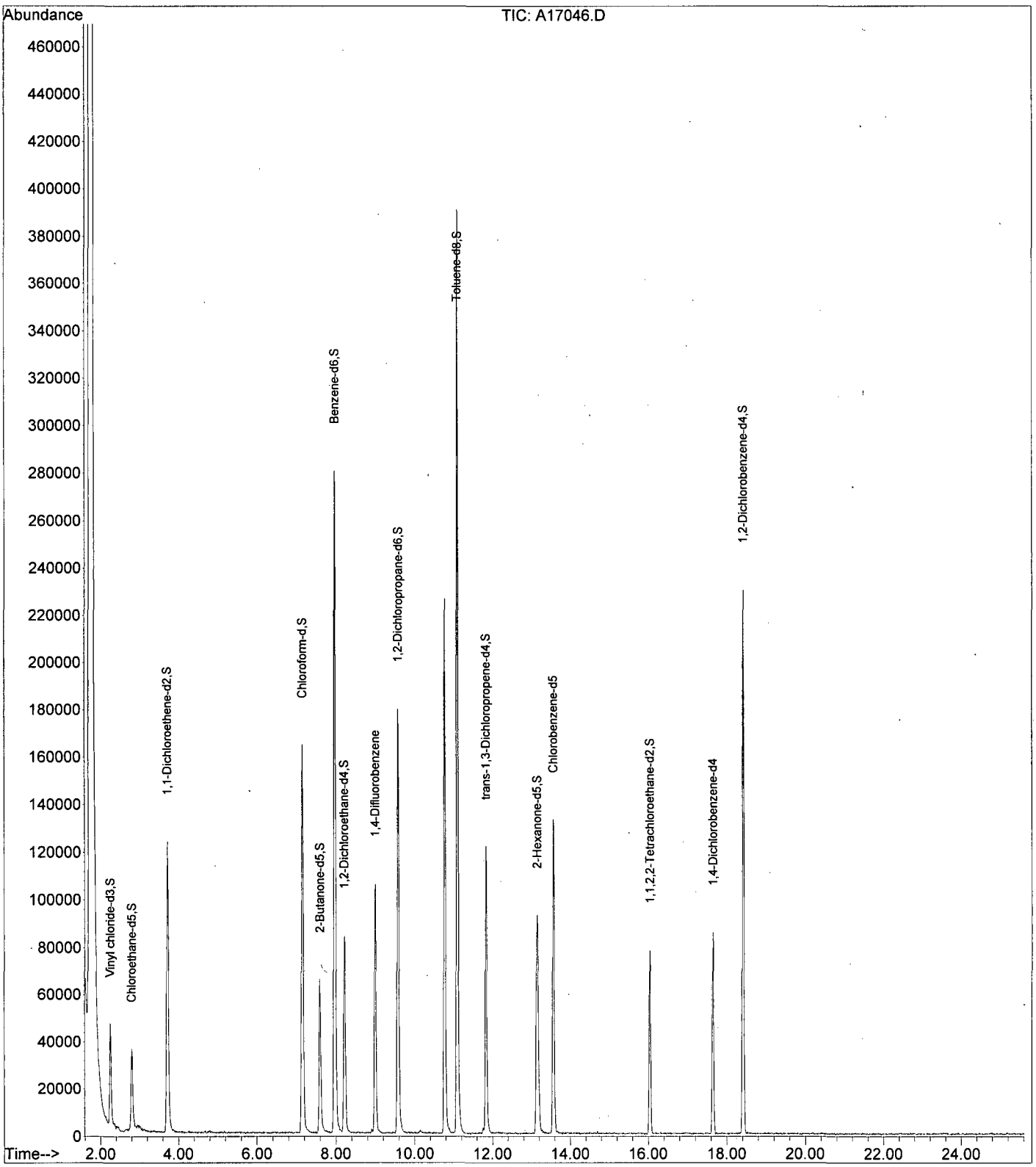
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 28 11:49:20 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.251	86	94	104	PV	42652	1176864	10.78%	1.004%
2	2.351	104	108	109	VV 2	1687	28506	0.26%	0.024%
3	2.372	109	111	121	VV 2	1257	39444	0.36%	0.034%
4	2.458	121	123	130	VV 2	1448	22835	0.21%	0.019%
5	2.530	130	133	134	PV 2	334	3329	0.03%	0.003%
6	2.552	134	136	140	VV 2	423	6116	0.06%	0.005%
7	2.609	140	144	146	PV	747	8746	0.08%	0.007%
8	2.645	146	149	152	VV 3	1141	25619	0.23%	0.022%
9	2.680	152	154	159	VV 2	1303	24791	0.23%	0.021%
10	2.802	159	171	182	VV 3	34908	1188843	10.89%	1.014%
11	2.888	182	183	189	VV 4	2815	70587	0.65%	0.060%
12	2.946	189	191	198	VV 6	3092	99208	0.91%	0.085%
13	3.010	198	200	205	VV 2	2686	66671	0.61%	0.057%
14	3.067	205	208	211	VV 2	1806	33696	0.31%	0.029%
15	3.117	211	215	222	VV 4	1465	46280	0.42%	0.039%
16	3.196	222	226	230	VV 2	930	23868	0.22%	0.020%
17	3.239	230	232	236	VV 3	685	12526	0.11%	0.011%
18	3.282	236	238	240	VV 2	730	5680	0.05%	0.005%
19	3.311	240	242	244	VV 2	749	7452	0.07%	0.006%
20	3.361	244	249	257	VV	962	32427	0.30%	0.028%
21	3.425	257	258	260	VV	541	5862	0.05%	0.005%
22	3.490	260	267	274	VV 2	678	26445	0.24%	0.023%
23	3.569	274	278	280	VV 2	589	11204	0.10%	0.010%
24	3.604	280	283	290	VV 2	550	17394	0.16%	0.015%
25	3.719	290	299	316	VV 2	121031	4044270	37.03%	3.449%
26	3.848	316	317	325	VV 2	1753	49176	0.45%	0.042%
27	3.920	325	327	330	VV 2	1144	16752	0.15%	0.014%
28	3.955	330	332	334	VV	939	11171	0.10%	0.010%
29	3.984	334	336	337	VV	644	7025	0.06%	0.006%
30	4.006	337	339	344	VV	726	18335	0.17%	0.016%
31	4.063	344	347	351	VV 3	845	15785	0.14%	0.013%
32	4.099	351	352	358	VV	941	17591	0.16%	0.015%
33	4.156	358	360	363	VV 2	584	9519	0.09%	0.008%
34	4.192	363	365	367	VV 2	439	6216	0.06%	0.005%
35	4.256	367	374	379	VV 2	912	27109	0.25%	0.023%
36	4.314	379	382	384	VV 2	690	10512	0.10%	0.009%
37	4.342	384	386	387	VV	769	7805	0.07%	0.007%
38	4.364	387	389	393	VV 2	630	12173	0.11%	0.010%
39	4.407	393	395	398	VV 2	582	12230	0.11%	0.010%
40	4.478	398	405	407	VV 2	785	18335	0.17%	0.016%
41	4.521	407	411	418	VV 2	815	24983	0.23%	0.021%
42	4.600	418	422	427	VV 2	809	21926	0.20%	0.019%
43	4.679	427	433	440	VV 2	1305	38982	0.36%	0.033%
44	4.751	440	443	444	VV 2	1032	14918	0.14%	0.013%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.772	444	446	449	VV 2	1212	19119	0.18%	0.016%
46	4.801	449	450	453	VV	1442	20221	0.19%	0.017%
47	4.844	453	456	463	VV 2	1110	32477	0.30%	0.028%
48	4.915	463	466	474	VV 2	785	28970	0.27%	0.025%
49	4.987	474	476	484	VV 2	866	29740	0.27%	0.025%
50	5.059	484	486	489	VV	1079	15647	0.14%	0.013%
51	5.087	489	490	497	VV 2	1056	30571	0.28%	0.026%
52	5.173	497	502	504	VV	1500	24888	0.23%	0.021%
53	5.216	504	508	512	VV 2	875	24804	0.23%	0.021%
54	5.266	512	515	529	VV 2	958	56671	0.52%	0.048%
55	5.374	529	530	532	VV	937	11284	0.10%	0.010%
56	5.424	532	537	545	VV 2	992	49752	0.46%	0.042%
57	5.496	545	547	551	VV 2	1298	21401	0.20%	0.018%
58	5.539	551	553	555	VV	1187	18551	0.17%	0.016%
59	5.567	555	557	560	VV	1325	24871	0.23%	0.021%
60	5.603	560	562	568	VV 2	1202	32030	0.29%	0.027%
61	5.667	568	571	578	VV 2	1237	35662	0.33%	0.030%
62	5.739	578	581	583	VV	1144	17432	0.16%	0.015%
63	5.761	583	584	586	VV	1212	13706	0.13%	0.012%
64	5.789	586	588	590	VV	1068	15972	0.15%	0.014%
65	5.839	590	595	598	VV 2	1157	32654	0.30%	0.028%
66	5.904	598	604	611	VV 2	1428	57799	0.53%	0.049%
67	5.968	611	613	615	VV 2	1221	15834	0.14%	0.014%
68	5.990	615	616	618	VV	1261	13768	0.13%	0.012%
69	6.018	618	620	621	VV 2	1093	13061	0.12%	0.011%
70	6.040	621	623	628	VV 2	1247	30518	0.28%	0.026%
71	6.090	628	630	637	VV 2	1249	41327	0.38%	0.035%
72	6.183	637	643	648	VV 2	1406	51893	0.48%	0.044%
73	6.233	648	650	653	VV 2	1260	26789	0.25%	0.023%
74	6.269	653	655	656	VV	1184	13568	0.12%	0.012%
75	6.291	656	658	661	VV	1246	20578	0.19%	0.018%
76	6.319	661	662	664	VV	1279	14853	0.14%	0.013%
77	6.341	664	665	667	VV	1056	12526	0.11%	0.011%
78	6.369	667	669	671	VV	1279	18004	0.16%	0.015%
79	6.405	671	674	676	VV	1477	25343	0.23%	0.022%
80	6.448	676	680	695	VV 2	1519	105908	0.97%	0.090%
81	6.584	695	699	701	VV 2	1330	32860	0.30%	0.028%
82	6.620	701	704	706	VV 2	1474	25448	0.23%	0.022%
83	6.642	706	707	709	VV	1558	15795	0.14%	0.013%
84	6.663	709	710	714	VV 2	1396	31209	0.29%	0.027%
85	6.706	714	716	723	VV 3	1560	48972	0.45%	0.042%
86	6.771	723	725	728	VV	1435	29231	0.27%	0.025%
87	6.814	728	731	739	VV 2	1728	68891	0.63%	0.059%
88	6.885	739	741	745	VV	1802	37799	0.35%	0.032%
89	6.950	745	750	751	VV	1497	35320	0.32%	0.030%
90	6.978	751	754	757	VV 2	1597	36930	0.34%	0.031%
91	7.014	757	759	763	VV 2	1654	42074	0.39%	0.036%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.057	763	765	768	VV 2	1620	30106	0.28%	0.026%
93	7.157	768	779	796	VV	165435	5434943	49.76%	4.635%
94	7.293	796	798	804	VV 4	2815	75612	0.69%	0.064%
95	7.344	804	805	810	VV 2	2030	48772	0.45%	0.042%
96	7.387	810	811	822	VV 3	1776	84431	0.77%	0.072%
97	7.480	822	824	828	VV 2	1838	40729	0.37%	0.035%
98	7.516	828	829	830	VV 2	1768	19690	0.18%	0.017%
99	7.594	830	840	858	VV	65953	2204242	20.18%	1.880%
100	7.738	858	860	868	VV 3	2565	97550	0.89%	0.083%
101	7.824	868	872	879	VV 3	2163	90417	0.83%	0.077%
102	7.974	879	893	910	VV	282179	8831323	80.86%	7.532%
103	8.103	910	911	917	VV 3	3340	91357	0.84%	0.078%
104	8.217	917	927	942	VV 2	84749	2831402	25.92%	2.415%
105	8.339	942	944	953	VV 2	2791	107916	0.99%	0.092%
106	8.425	953	956	964	VV 2	2333	94571	0.87%	0.081%
107	8.490	964	965	968	VV	2098	37227	0.34%	0.032%
108	8.525	968	970	972	VV	2354	30907	0.28%	0.026%
109	8.554	972	974	982	VV 3	2371	98502	0.90%	0.084%
110	8.669	982	990	998	VV 2	2350	138247	1.27%	0.118%
111	8.740	998	1000	1003	VV	2251	47716	0.44%	0.041%
112	8.783	1003	1006	1007	VV 2	2421	35290	0.32%	0.030%
113	8.805	1007	1009	1017	VV 2	2311	95329	0.87%	0.081%
114	8.912	1017	1024	1027	VV 4	3844	114624	1.05%	0.098%
115	8.998	1027	1036	1047	VV 2	107048	3185691	29.17%	2.717%
116	9.091	1047	1049	1057	VV 4	3461	122520	1.12%	0.104%
117	9.163	1057	1059	1062	VV 2	2548	45014	0.41%	0.038%
118	9.192	1062	1063	1065	VV 2	2214	33132	0.30%	0.028%
119	9.227	1065	1068	1071	VV 2	2285	52473	0.48%	0.045%
120	9.299	1071	1078	1085	VV 2	2575	136271	1.25%	0.116%
121	9.364	1085	1087	1092	VV 2	2612	77123	0.71%	0.066%
122	9.414	1092	1094	1096	VV	2350	31220	0.29%	0.027%
123	9.457	1096	1100	1102	VV	2644	70237	0.64%	0.060%
124	9.493	1102	1105	1107	VV 2	2519	46820	0.43%	0.040%
125	9.578	1107	1117	1143	VV	178343	5807654	53.18%	4.953%
126	9.779	1143	1145	1148	VV 2	2808	48613	0.45%	0.041%
127	9.844	1148	1154	1161	VV 2	2970	143806	1.32%	0.123%
128	9.915	1161	1164	1167	VV 2	3017	67587	0.62%	0.058%
129	9.944	1167	1168	1173	VV 2	2766	69651	0.64%	0.059%
130	10.001	1173	1176	1178	VV 2	2908	54499	0.50%	0.046%
131	10.030	1178	1180	1181	VV	3031	42377	0.39%	0.036%
132	10.051	1181	1183	1186	VV 2	2680	50671	0.46%	0.043%
133	10.087	1186	1188	1190	VV 2	2947	50547	0.46%	0.043%
134	10.152	1190	1197	1200	VV 2	3840	132539	1.21%	0.113%
135	10.180	1200	1201	1207	VV 2	3111	82393	0.75%	0.070%
136	10.230	1207	1208	1216	VV	2928	115927	1.06%	0.099%
137	10.295	1216	1217	1220	VV 2	2918	37522	0.34%	0.032%
138	10.338	1220	1223	1225	VV 2	2872	62787	0.57%	0.054%
139	10.366	1225	1227	1230	VV	3154	56132	0.51%	0.048%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.402	1230	1232	1236	VV 2	2942	72198	0.66%	0.062%
141	10.445	1236	1238	1243	VV	2732	76146	0.70%	0.065%
142	10.488	1243	1244	1250	VV	3112	86677	0.79%	0.074%
143	10.545	1250	1252	1256	VV 2	3030	70849	0.65%	0.060%
144	10.581	1256	1257	1264	VV 2	2921	92740	0.85%	0.079%
145	10.646	1264	1266	1268	VV	2843	53485	0.49%	0.046%
146	10.682	1268	1271	1272	VV	2807	47280	0.43%	0.040%
147	10.775	1272	1284	1308	VV	225519	6542305	59.90%	5.580%
148	10.961	1308	1310	1317	VV	3310	123679	1.13%	0.105%
149	11.097	1317	1329	1352	VV	390537	10921774	100.00%	9.315%
150	11.290	1352	1356	1360	VV 3	3238	110800	1.01%	0.094%
151	11.333	1360	1362	1371	VV 2	3177	141939	1.30%	0.121%
152	11.412	1371	1373	1376	VV	3319	71627	0.66%	0.061%
153	11.448	1376	1378	1379	VV	3096	33745	0.31%	0.029%
154	11.477	1379	1382	1387	VV 2	3414	115552	1.06%	0.099%
155	11.534	1387	1390	1391	VV 2	3244	50578	0.46%	0.043%
156	11.555	1391	1393	1395	VV 2	3435	55228	0.51%	0.047%
157	11.598	1395	1399	1401	VV	3290	75037	0.69%	0.064%
158	11.627	1401	1403	1406	VV	3484	67709	0.62%	0.058%
159	11.663	1406	1408	1416	VV	3625	147027	1.35%	0.125%
160	11.756	1416	1421	1423	VV 4	5616	149709	1.37%	0.128%
161	11.835	1423	1432	1450	VV	124380	3692435	33.81%	3.149%
162	11.985	1450	1453	1454	VV	3930	63607	0.58%	0.054%
163	12.007	1454	1456	1462	VV 2	3843	114280	1.05%	0.097%
164	12.064	1462	1464	1466	VV 2	3770	61388	0.56%	0.052%
165	12.100	1466	1469	1478	VV 2	3807	197585	1.81%	0.169%
166	12.179	1478	1480	1486	VV 3	3941	122433	1.12%	0.104%
167	12.243	1486	1489	1491	VV	4003	71330	0.65%	0.061%
168	12.286	1491	1495	1500	VV 2	3824	149735	1.37%	0.128%
169	12.343	1500	1503	1507	VV	3702	104046	0.95%	0.089%
170	12.394	1507	1510	1515	VV	3818	115158	1.05%	0.098%
171	12.444	1515	1517	1522	VV	3756	105325	0.96%	0.090%
172	12.494	1522	1524	1529	VV 2	3630	101715	0.93%	0.087%
173	12.551	1529	1532	1533	VV 2	3558	71741	0.66%	0.061%
174	12.573	1533	1535	1537	VV 2	3794	51920	0.48%	0.044%
175	12.594	1537	1538	1542	VV 2	3995	80624	0.74%	0.069%
176	12.644	1542	1545	1547	VV 2	3750	75523	0.69%	0.064%
177	12.673	1547	1549	1550	VV	3706	53596	0.49%	0.046%
178	12.702	1550	1553	1556	VV 2	3761	93931	0.86%	0.080%
179	12.737	1556	1558	1561	VV 2	3799	80303	0.74%	0.068%
180	12.773	1561	1563	1564	VV	3615	42203	0.39%	0.036%
181	12.795	1564	1566	1569	VV 2	4044	76442	0.70%	0.065%
182	12.823	1569	1570	1572	VV	3965	50530	0.46%	0.043%
183	12.859	1572	1575	1577	VV	4042	83161	0.76%	0.071%
184	12.888	1577	1579	1590	VV	3958	206787	1.89%	0.176%
185	12.988	1590	1593	1597	VV 2	3879	114068	1.04%	0.097%
186	13.038	1597	1600	1604	VV 2	4232	118405	1.08%	0.101%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.146	1604	1615	1630	VV 2	96161	4097909	37.52%	3.495%
188	13.275	1630	1633	1636	VV 2	5450	127653	1.17%	0.109%
189	13.310	1636	1638	1642	VV 2	4771	101605	0.93%	0.087%
190	13.346	1642	1643	1652	VV 3	4558	177444	1.62%	0.151%
191	13.425	1652	1654	1659	VV 2	4246	128760	1.18%	0.110%
192	13.568	1659	1674	1685	VV	136738	4129729	37.81%	3.522%
193	13.661	1685	1687	1693	VV 3	5088	152268	1.39%	0.130%
194	13.712	1693	1694	1699	VV	4533	109665	1.00%	0.094%
195	13.755	1699	1700	1702	VV	4227	51870	0.47%	0.044%
196	13.776	1702	1703	1706	VV 2	4382	79506	0.73%	0.068%
197	13.819	1706	1709	1714	VV 2	4590	137761	1.26%	0.117%
198	13.934	1714	1725	1729	VV 3	4633	289239	2.65%	0.247%
199	13.977	1729	1731	1733	VV	4357	57682	0.53%	0.049%
200	14.027	1733	1738	1741	VV 2	4575	157206	1.44%	0.134%
201	14.077	1741	1745	1746	VV	4405	90762	0.83%	0.077%
202	14.098	1746	1748	1752	VV 2	4443	104100	0.95%	0.089%
203	14.141	1752	1754	1755	VV	4359	59174	0.54%	0.050%
204	14.163	1755	1757	1760	VV	4505	86029	0.79%	0.073%
205	14.206	1760	1763	1765	VV 2	4611	99355	0.91%	0.085%
206	14.234	1765	1767	1770	VV	4492	85052	0.78%	0.073%
207	14.270	1770	1772	1773	VV	4397	65268	0.60%	0.056%
208	14.292	1773	1775	1779	VV 2	4403	97971	0.90%	0.084%
209	14.349	1779	1783	1788	VV 2	4615	164572	1.51%	0.140%
210	14.435	1788	1795	1798	VV 2	4609	197375	1.81%	0.168%
211	14.471	1798	1800	1803	VV 2	4562	81619	0.75%	0.070%
212	14.507	1803	1805	1808	VV 2	4785	102539	0.94%	0.087%
213	14.535	1808	1809	1815	VV	4525	142190	1.30%	0.121%
214	14.600	1815	1818	1820	VV	4652	81085	0.74%	0.069%
215	14.636	1820	1823	1826	VV	4798	127554	1.17%	0.109%
216	14.700	1826	1832	1835	VV	5360	169382	1.55%	0.144%
217	14.750	1835	1839	1841	VV 2	4790	126896	1.16%	0.108%
218	14.786	1841	1844	1851	VV 2	4753	183130	1.68%	0.156%
219	14.843	1851	1852	1855	VV 2	4663	91037	0.83%	0.078%
220	14.886	1855	1858	1861	VV 2	4643	96970	0.89%	0.083%
221	14.922	1861	1863	1870	VV 2	4956	180075	1.65%	0.154%
222	14.994	1870	1873	1876	VV 2	4921	128388	1.18%	0.109%
223	15.030	1876	1878	1881	VV	4730	101968	0.93%	0.087%
224	15.065	1881	1883	1885	VV 2	4760	78116	0.72%	0.067%
225	15.108	1885	1889	1892	VV 2	4980	125679	1.15%	0.107%
226	15.137	1892	1893	1898	VV 2	4888	139461	1.28%	0.119%
227	15.187	1898	1900	1905	VV 2	4691	125384	1.15%	0.107%
228	15.287	1905	1914	1917	VV	4801	230454	2.11%	0.197%
229	15.323	1917	1919	1921	VV	4902	99578	0.91%	0.085%
230	15.352	1921	1923	1930	VV 2	4909	181357	1.66%	0.155%
231	15.424	1930	1933	1935	VV	4694	93710	0.86%	0.080%
232	15.459	1935	1938	1942	VV	4875	144675	1.32%	0.123%
233	15.517	1942	1946	1952	VV 2	4971	205165	1.88%	0.175%
234	15.574	1952	1954	1958	VV	5077	110141	1.01%	0.094%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.631	1958	1962	1970	VV 2	5050	250341	2.29%	0.214%
236	15.746	1970	1978	1982	VV 2	5137	261842	2.40%	0.223%
237	15.796	1982	1985	1990	VV 2	5103	175269	1.60%	0.149%
238	15.860	1990	1994	2001	VV 2	5107	215991	1.98%	0.184%
239	15.925	2001	2003	2004	VV 2	4968	67787	0.62%	0.058%
240	15.946	2004	2006	2010	VV 2	5098	133485	1.22%	0.114%
241	16.040	2010	2019	2029	VV	81216	2421409	22.17%	2.065%
242	16.118	2029	2030	2032	VV	5311	71763	0.66%	0.061%
243	16.147	2032	2034	2036	VV 2	5211	90589	0.83%	0.077%
244	16.190	2036	2040	2044	VV 2	5355	178308	1.63%	0.152%
245	16.233	2044	2046	2049	VV 2	5079	104051	0.95%	0.089%
246	16.269	2049	2051	2055	VV 2	5180	124190	1.14%	0.106%
247	16.319	2055	2058	2060	VV 2	5581	123732	1.13%	0.106%
248	16.348	2060	2062	2068	VV 2	5246	172534	1.58%	0.147%
249	16.405	2068	2070	2073	VV	5521	122949	1.13%	0.105%
250	16.448	2073	2076	2078	VV 2	5484	90913	0.83%	0.078%
251	16.484	2078	2081	2087	VV 2	5350	205219	1.88%	0.175%
252	16.562	2087	2092	2098	VV 2	5608	244458	2.24%	0.208%
253	16.620	2098	2100	2102	VV	5211	91671	0.84%	0.078%
254	16.656	2102	2105	2109	VV	5482	161289	1.48%	0.138%
255	16.699	2109	2111	2115	VV 2	5488	132904	1.22%	0.113%
256	16.742	2115	2117	2118	VV	5433	85506	0.78%	0.073%
257	16.770	2118	2121	2124	VV 2	5436	135623	1.24%	0.116%
258	16.806	2124	2126	2128	VV 2	5335	85236	0.78%	0.073%
259	16.842	2128	2131	2136	VV	5409	175755	1.61%	0.150%
260	16.885	2136	2137	2141	VV 2	5559	123351	1.13%	0.105%
261	16.935	2141	2144	2146	VV 2	5804	114628	1.05%	0.098%
262	16.978	2146	2150	2155	VV 2	5675	212779	1.95%	0.181%
263	17.042	2155	2159	2161	VV 2	5774	136510	1.25%	0.116%
264	17.071	2161	2163	2165	VV 2	5531	104818	0.96%	0.089%
265	17.128	2165	2171	2173	VV 2	5543	178372	1.63%	0.152%
266	17.157	2173	2175	2178	VV 2	5781	124016	1.14%	0.106%
267	17.193	2178	2180	2182	VV	5541	81264	0.74%	0.069%
268	17.264	2182	2190	2192	VV	5641	228883	2.10%	0.195%
269	17.293	2192	2194	2196	VV 2	5630	97211	0.89%	0.083%
270	17.336	2196	2200	2202	VV 2	5667	140961	1.29%	0.120%
271	17.358	2202	2203	2205	VV	5674	77244	0.71%	0.066%
272	17.386	2205	2207	2209	VV 2	5553	91732	0.84%	0.078%
273	17.429	2209	2213	2215	VV	5621	138307	1.27%	0.118%
274	17.465	2215	2218	2221	VV 2	5857	158671	1.45%	0.135%
275	17.508	2221	2224	2229	VV	5863	187107	1.71%	0.160%
276	17.558	2229	2231	2234	VV 2	5792	124721	1.14%	0.106%
277	17.651	2234	2244	2253	VV	90964	2630110	24.08%	2.243%
278	17.744	2253	2257	2260	VV 2	6096	181696	1.66%	0.155%
279	17.787	2260	2263	2265	VV	5733	108317	0.99%	0.092%
280	17.816	2265	2267	2269	VV 2	5774	104022	0.95%	0.089%
281	17.845	2269	2271	2272	VV 2	5830	79159	0.72%	0.068%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	17.866	2272	2274	2276	VV 2	6003	82028	0.75%	0.070%
283	17.888	2276	2277	2279	VV	6100	94416	0.86%	0.081%
284	17.931	2279	2283	2289	VV 2	6120	231468	2.12%	0.197%
285	18.002	2289	2293	2295	VV 2	5888	159790	1.46%	0.136%
286	18.067	2295	2302	2309	VV 2	5992	333204	3.05%	0.284%
287	18.131	2309	2311	2313	VV 2	6185	115917	1.06%	0.099%
288	18.167	2313	2316	2318	VV 2	6021	117165	1.07%	0.100%
289	18.188	2318	2319	2324	VV	5994	161634	1.48%	0.138%
290	18.246	2324	2327	2329	VV	6291	135945	1.24%	0.116%
291	18.282	2329	2332	2335	VV	6181	139017	1.27%	0.119%
292	18.310	2335	2336	2338	VV	6214	78113	0.72%	0.067%
293	18.339	2338	2340	2341	VV	6313	87828	0.80%	0.075%
294	18.418	2341	2351	2364	VV	231117	6406864	58.66%	5.464%
295	18.525	2364	2366	2370	VV	6642	140573	1.29%	0.120%
296	18.568	2370	2372	2375	VV 2	6287	155687	1.43%	0.133%
297	18.611	2375	2378	2380	VV 2	6352	128962	1.18%	0.110%
298	18.640	2380	2382	2385	VV 2	6193	110170	1.01%	0.094%
299	18.676	2385	2387	2390	VV 2	6231	148721	1.36%	0.127%
300	18.718	2390	2393	2396	VV	6256	163101	1.49%	0.139%
301	18.754	2396	2398	2400	VV	6176	86089	0.79%	0.073%
302	18.776	2400	2401	2411	VV 2	6440	308842	2.83%	0.263%
303	18.862	2411	2413	2416	VV 2	6327	133905	1.23%	0.114%
304	18.912	2416	2420	2425	VV 2	6342	213111	1.95%	0.182%
305	18.969	2425	2428	2432	VV	6617	202661	1.86%	0.173%
306	19.012	2432	2434	2438	VV	6249	148552	1.36%	0.127%
307	19.055	2438	2440	2442	VV	6606	125095	1.15%	0.107%
308	19.084	2442	2444	2446	VV	6437	95146	0.87%	0.081%
309	19.105	2446	2447	2449	VV	6330	76337	0.70%	0.065%
310	19.141	2449	2452	2459	VV 2	6696	279458	2.56%	0.238%
311	19.234	2459	2465	2471	VV 2	6464	312133	2.86%	0.266%
312	19.292	2471	2473	2475	VV 2	6553	134114	1.23%	0.114%
313	19.356	2475	2482	2490	VV 2	6624	383180	3.51%	0.327%
314	19.442	2490	2494	2497	VV 2	6752	199815	1.83%	0.170%
315	19.471	2497	2498	2503	VV	6552	169051	1.55%	0.144%
316	19.557	2503	2510	2513	VV 2	6632	283119	2.59%	0.241%
317	19.607	2513	2517	2518	VV 2	6570	134798	1.23%	0.115%
318	19.643	2518	2522	2524	VV	6779	172274	1.58%	0.147%
319	19.678	2524	2527	2529	VV	6686	120569	1.10%	0.103%
320	19.707	2529	2531	2538	VV 2	6741	266753	2.44%	0.228%
321	19.800	2538	2544	2548	VV 2	6826	278120	2.55%	0.237%
322	19.865	2548	2553	2557	VV	6554	238156	2.18%	0.203%
323	19.922	2557	2561	2568	VV	6722	315685	2.89%	0.269%
324	19.986	2568	2570	2572	VV 2	6765	127213	1.16%	0.108%
325	20.015	2572	2574	2576	VV	6639	92118	0.84%	0.079%
326	20.058	2576	2580	2582	VV 2	6848	188984	1.73%	0.161%
327	20.087	2582	2584	2586	VV 2	6729	95327	0.87%	0.081%
328	20.137	2586	2591	2595	VV	6794	250695	2.30%	0.214%
329	20.194	2595	2599	2603	VV 2	7073	239291	2.19%	0.204%

0327

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.237	2603	2605	2607	VV 2	6700	119274	1.09%	0.102%
331	20.273	2607	2610	2612	VV 2	6787	153975	1.41%	0.131%
332	20.309	2612	2615	2616	VV	6860	118675	1.09%	0.101%
333	20.345	2616	2620	2625	VV 2	6879	238167	2.18%	0.203%
334	20.395	2625	2627	2628	VV	7032	106326	0.97%	0.091%
335	20.423	2628	2631	2633	VV 2	7127	143997	1.32%	0.123%
336	20.466	2633	2637	2641	VV	6893	213575	1.96%	0.182%
337	20.531	2641	2646	2648	VV 2	7039	220211	2.02%	0.188%
338	20.567	2648	2651	2652	VV	6944	121820	1.12%	0.104%
339	20.588	2652	2654	2662	VV 2	7062	296356	2.71%	0.253%
340	20.667	2662	2665	2670	VV 2	7274	244814	2.24%	0.209%
341	20.724	2670	2673	2674	VV 2	7099	107986	0.99%	0.092%
342	20.746	2674	2676	2678	VV	7274	121750	1.11%	0.104%
343	20.774	2678	2680	2681	VV	6863	85383	0.78%	0.073%
344	20.803	2681	2684	2689	VV 2	7042	229438	2.10%	0.196%
345	20.875	2689	2694	2696	VV	7340	202949	1.86%	0.173%
346	20.896	2696	2697	2699	VV	7281	107665	0.99%	0.092%
347	20.939	2699	2703	2706	VV 2	7157	210566	1.93%	0.180%
348	21.025	2706	2715	2719	VV 2	7407	403914	3.70%	0.344%
349	21.075	2719	2722	2723	VV	7215	120714	1.11%	0.103%
350	21.089	2723	2724	2727	VV 2	7139	104810	0.96%	0.089%
351	21.125	2727	2729	2733	VV 2	7201	198059	1.81%	0.169%
352	21.175	2733	2736	2737	VV	7187	119961	1.10%	0.102%
353	21.211	2737	2741	2744	VV	7292	205320	1.88%	0.175%
354	21.247	2744	2746	2747	VV	7206	88995	0.81%	0.076%
355	21.269	2747	2749	2753	VV 2	7500	199509	1.83%	0.170%
356	21.312	2753	2755	2760	VV 2	7278	222942	2.04%	0.190%
357	21.362	2760	2762	2767	VV 2	7242	207779	1.90%	0.177%
358	21.412	2767	2769	2772	VV 2	7206	147089	1.35%	0.125%
359	21.448	2772	2774	2776	VV	7606	136266	1.25%	0.116%
360	21.476	2776	2778	2780	VV 2	7524	116101	1.06%	0.099%
361	21.519	2780	2784	2786	VV	7368	195701	1.79%	0.167%
362	21.555	2786	2789	2790	VV	7234	122394	1.12%	0.104%
363	21.598	2790	2795	2798	VV 2	7319	233336	2.14%	0.199%
364	21.655	2798	2803	2805	VV 2	7469	214161	1.96%	0.183%
365	21.677	2805	2806	2808	VV 2	7341	103154	0.94%	0.088%
366	21.741	2808	2815	2818	VV 2	7693	301391	2.76%	0.257%
367	21.820	2818	2826	2828	VV 2	7544	325172	2.98%	0.277%
368	21.863	2828	2832	2836	VV 2	7562	270499	2.48%	0.231%
369	21.906	2836	2838	2842	VV	7504	191654	1.75%	0.163%
370	21.971	2842	2847	2849	VV 2	7469	195379	1.79%	0.167%
371	22.006	2849	2852	2855	VV 2	7582	212709	1.95%	0.181%
372	22.056	2855	2859	2864	VV 2	7681	286542	2.62%	0.244%
373	22.114	2864	2867	2869	VV	7532	135374	1.24%	0.115%
374	22.157	2869	2873	2876	VV	7665	244622	2.24%	0.209%
375	22.193	2876	2878	2880	VV	7844	124915	1.14%	0.107%
376	22.221	2880	2882	2886	VV 2	7710	185586	1.70%	0.158%

0328

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

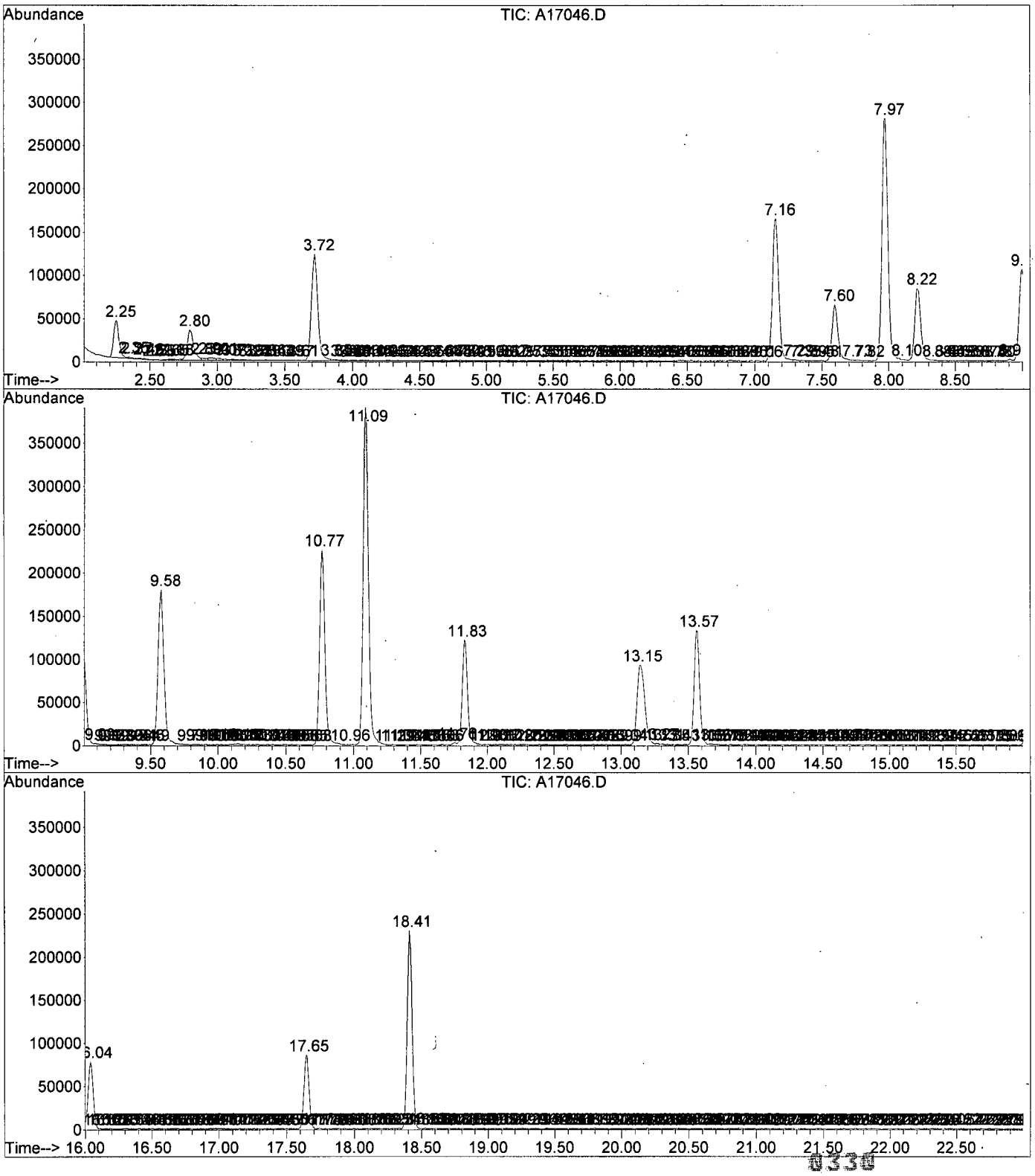
377	22.279	2886	2890	2892	VV	7730	201431	1.84%	0.172%
378	22.329	2892	2897	2899	VV 2	7749	229203	2.10%	0.195%
379	22.357	2899	2901	2903	VV 2	7704	130230	1.19%	0.111%
380	22.400	2903	2907	2911	VV	8043	259832	2.38%	0.222%
381	22.450	2911	2914	2924	VV 2	8012	432010	3.96%	0.368%
382	22.536	2924	2926	2944	VV	7976	681176	6.24%	0.581%
383	22.687	2944	2947	2949	VV	8223	150423	1.38%	0.128%
384	22.744	2949	2955	2957	VV 2	8123	280849	2.57%	0.240%
385	22.773	2957	2959	2960	VV	7949	98106	0.90%	0.084%
386	22.794	2960	2962	2971	VV	8191	345510	3.16%	0.295%
387	22.887	2971	2975	2976	VV	7993	193286	1.77%	0.165%
388	22.909	2976	2978	2979	VV 2	7888	99828	0.91%	0.085%
389	22.930	2979	2981	2985	VBA2	8056	190486	1.74%	0.162%

Sum of corrected areas: 117252129

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

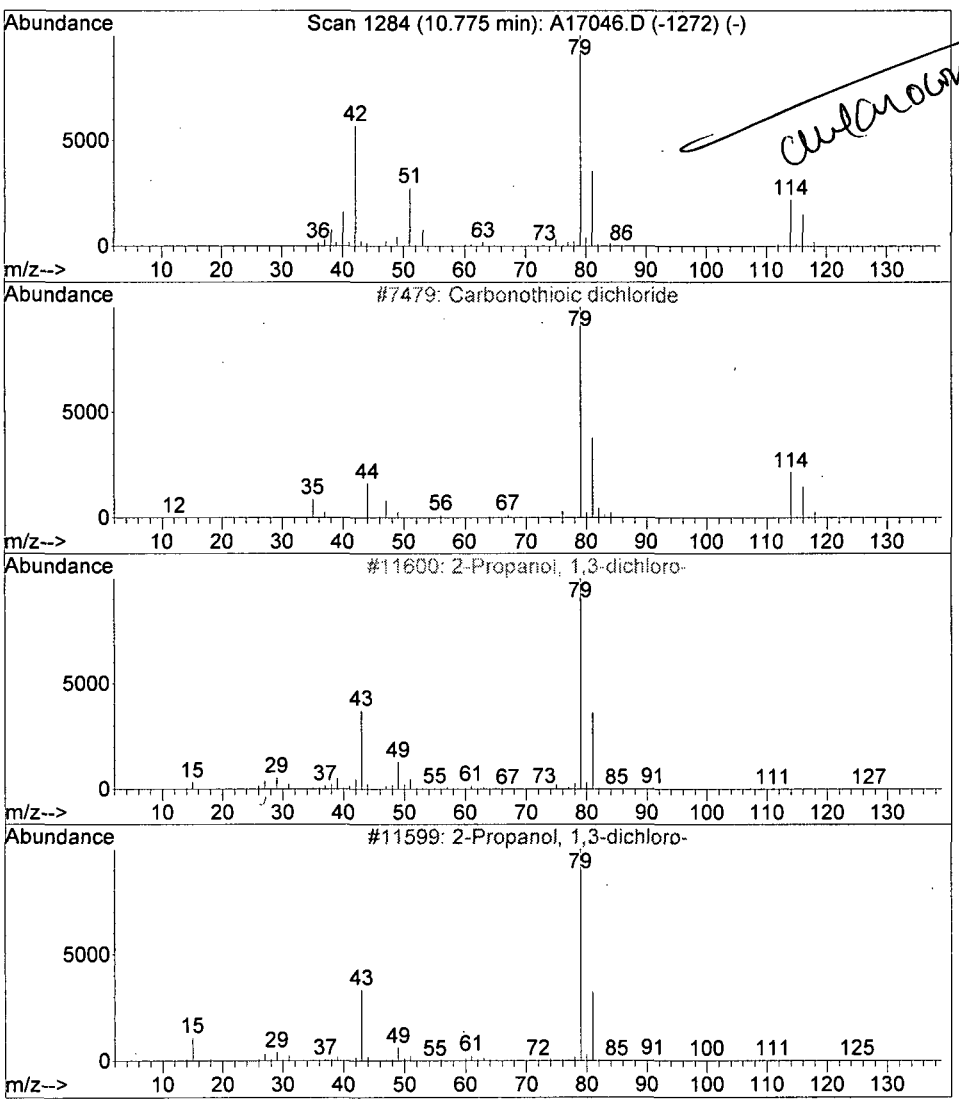
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

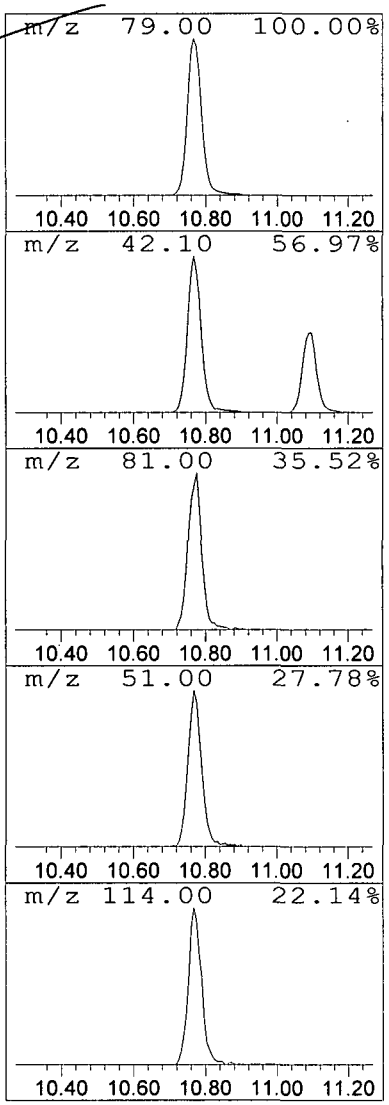
11/28/08

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	10.27 ug/L	6542300	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	32
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	Cyclopropane	42	C3H6	000075-19-4	9





0331

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

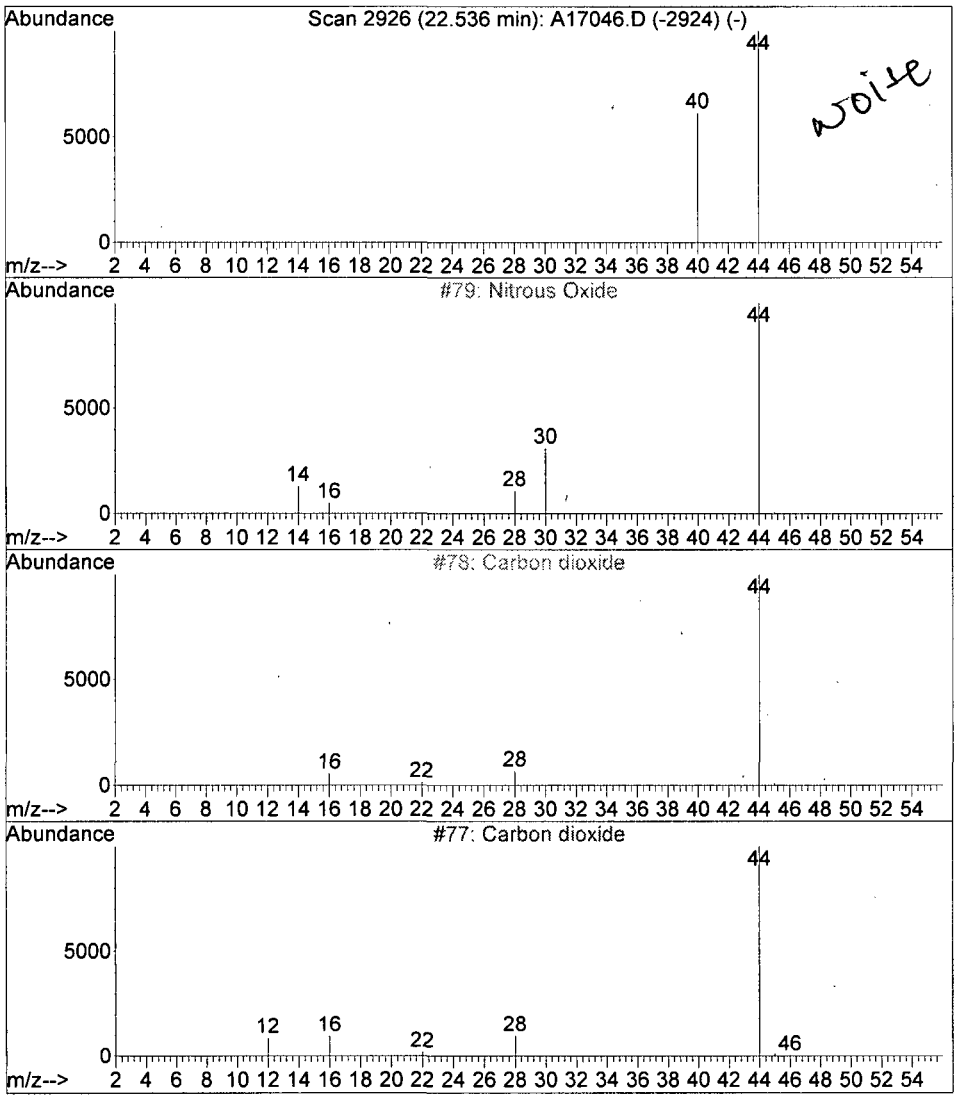
11/28/08

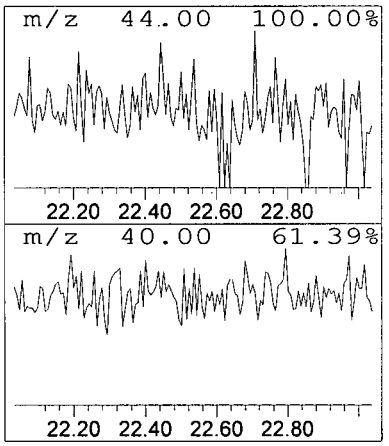
****

Peak Number 2 Nitrous Oxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.54	1.29 ug/L	681176	1,4-Dichlorobenzene-d4	17.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitrous Oxide	44	N2O	010024-97-2	2
2	Carbon dioxide	44	CO2	000124-38-9	2
3	Carbon dioxide	44	CO2	000124-38-9	2
4	Ethyne, fluoro-	44	C2HF	002713-09-9	2
5	Ethylene oxide	44	C2H4O	000075-21-8	2





0332

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

11/28/08

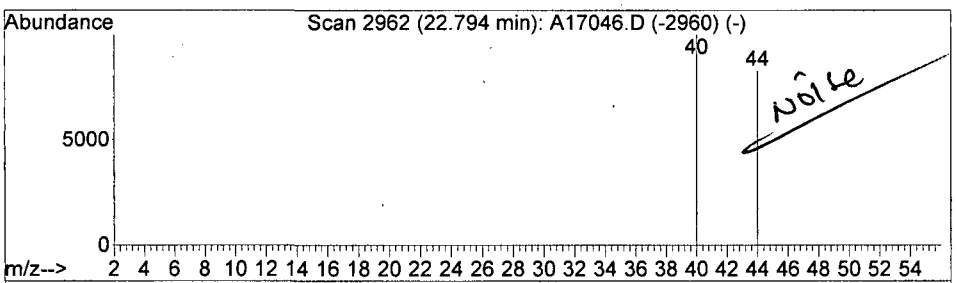
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

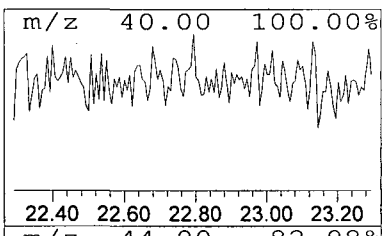
****

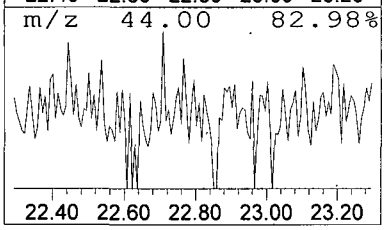
Peak Number 3 Carbon dioxide Concentration Rank 3

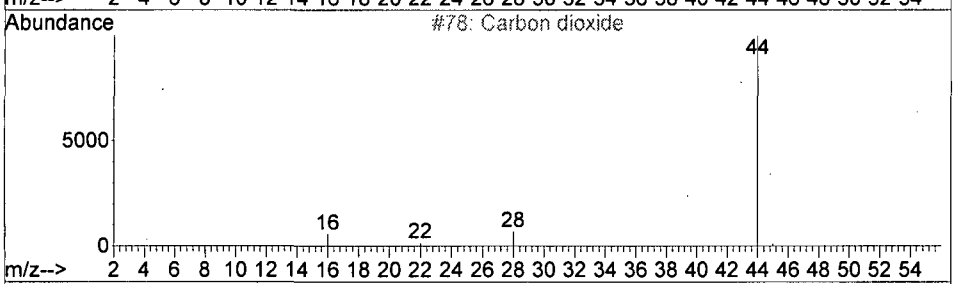
R.T.	EstConc	Area	Relative to ISTD	R.T.
22.80	0.66 ug/L	345510	1,4-Dichlorobenzene-d4	17.65

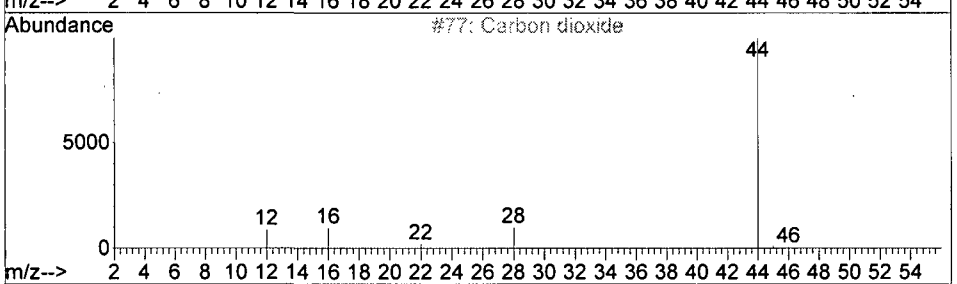
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	2
2	Carbon dioxide	44	CO2	000124-38-9	2
3	Ethyne, fluoro-	44	C2HF	002713-09-9	2
4	Ethylene oxide	44	C2H4O	000075-21-8	2
5	Acetaldehyde	44	C2H4O	000075-07-0	2

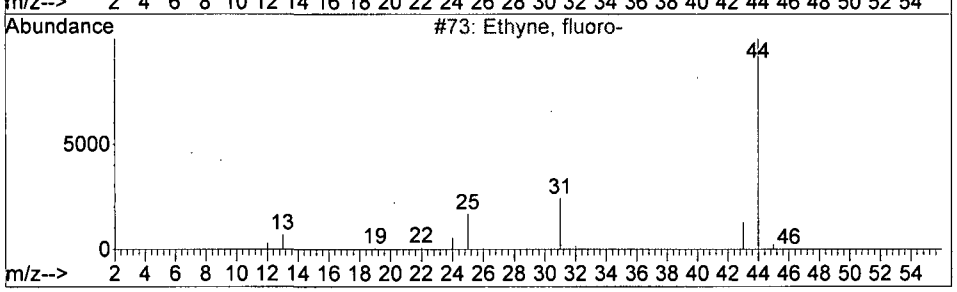












Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17046.D
Acq On : 11/27/08 08:32 Operator: SB
Sample : F2XF6 Inst : A-5973
Misc : S-2066.11 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	10.3	ug/L	6542300	1	9.00	3185690	5.0
Nitrous Oxide	22.54	1.3	ug/L	681176	3	17.65	2630110	5.0
Carbon dioxide	22.80	0.7	ug/L	345510	3	17.65	2630110	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19529

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1.0	U
79-20-9	Methyl acetate	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.5	
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	110	E
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
110-82-7	Cyclohexane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	0.80	J

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19529

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	1600	E
108-87-2	Methylcyclohexane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.7	
127-18-4	Tetrachloroethene	59	E
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19529

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	11	JB
02	000556-67-2	Cyclotetrasiloxane, octamethy	14.99	4.3	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 14:52:53 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

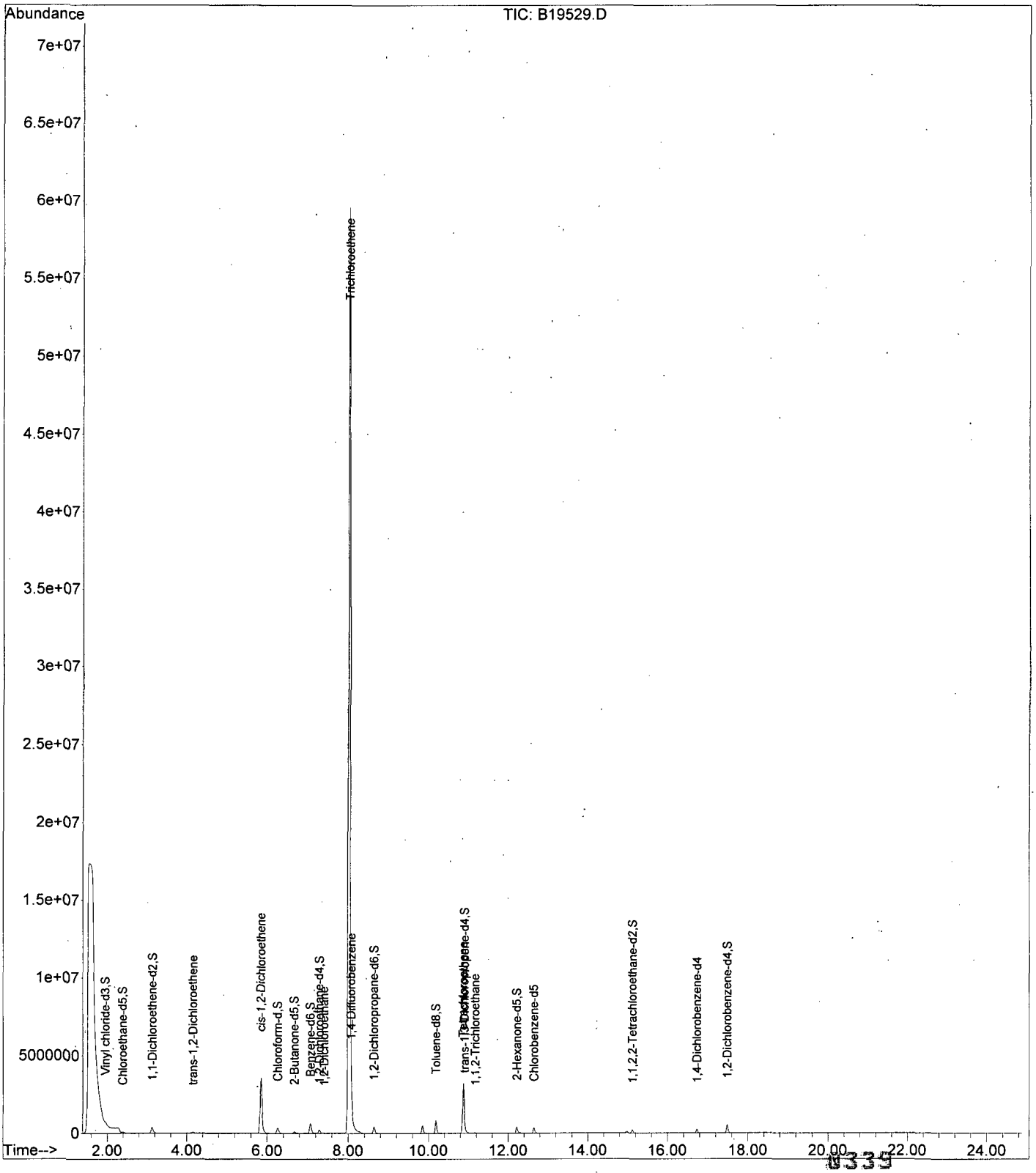
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.09	114	4124370	5.00	ug/L	0.01
28) Chlorobenzene-d5	12.65	117	2624306	5.00	ug/L	0.01
59) 1,4-Dichlorobenzene-d4	16.74	152	943769	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	1.97	65	2513419	4.28	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 85.60%			
7) Chloroethane-d5	2.39	69	1325137m	4.98	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 99.60%			
10) 1,1-Dichloroethene-d2	3.13	63	4277600	3.63	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 72.60%			
21) 2-Butanone-d5	6.67	46	2532143	41.09	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 82.18%			
24) Chloroform-d	6.26	84	4590756	3.94	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 78.80%			
26) 1,2-Dichloroethane-d4	7.29	65	2269271	4.25	ug/L	0.01
Spiked Amount 5.000	Range 78 - 129		Recovery = 85.00%			
32) Benzene-d6	7.07	84	9147617	5.46	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 109.20%			
36) 1,2-Dichloropropane-d6	8.65	67	2796147	5.51	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 110.20%			
41) Toluene-d8	10.19	98	7825314	5.16	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 103.20%			
43) trans-1,3-Dichloropropene-	10.91	79	2593109	5.54	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 110.80%			
47) 2-Hexanone-d5	12.22	63	1777123	55.56	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 111.12%			
57) 1,1,2,2-Tetrachloroethane-	15.12	84	1479096	5.27	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 105.40%			
63) 1,2-Dichlorobenzene-d4	17.49	152	2004207	5.44	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 108.80%			
Target Compounds						Qvalue
17) trans-1,2-Dichloroethene	4.16	96	355005	0.75	ug/L	95
20) cis-1,2-Dichloroethene	5.85	96	27069399	56.37	ug/L	96
27) 1,2-Dichloroethane	7.40	62	210019	0.40	ug/L	95
34) Trichloroethene	8.02	95	321167504	820.92	ug/L	97
45) 1,1,2-Trichloroethane	11.16	97	191731	0.87	ug/L	93
46) Tetrachloroethene	10.87	164	10206994	29.58	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0338

Data File: C:\MSDChem\1\DATA\B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

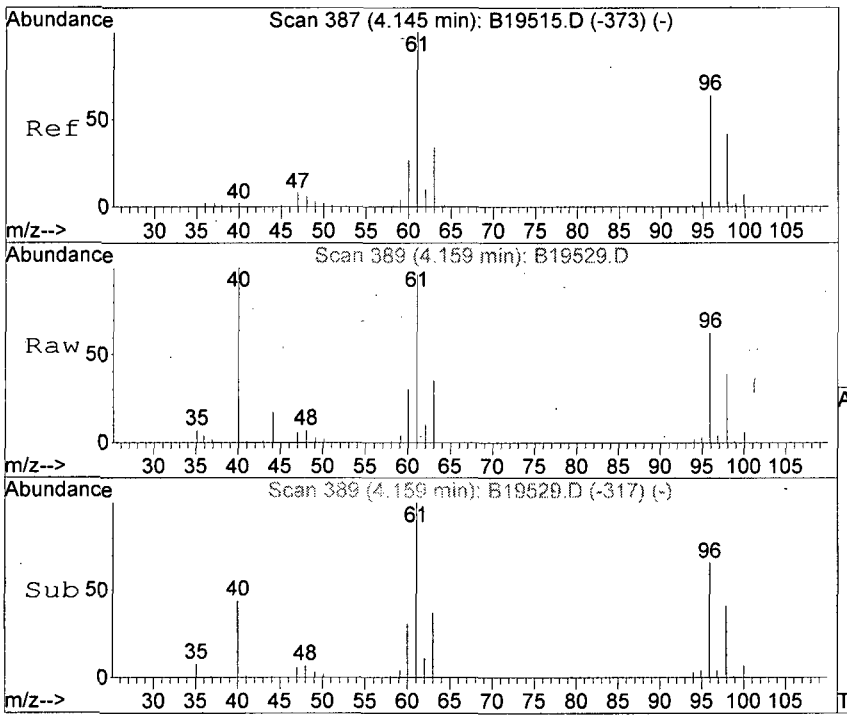
Quant Time: Nov 28 14:52:53 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration



0339

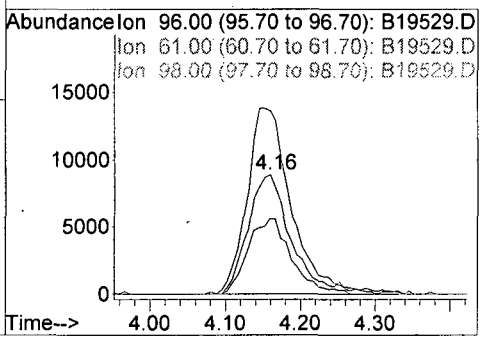
Data File : C:\MSDChem\1\DATA\B19529.D
Acq. On : 11/26/08 17:29
Sample : F2XF7 2X
Misc : S-2066.12 25ML
MS Integration Params: LSCINT.E

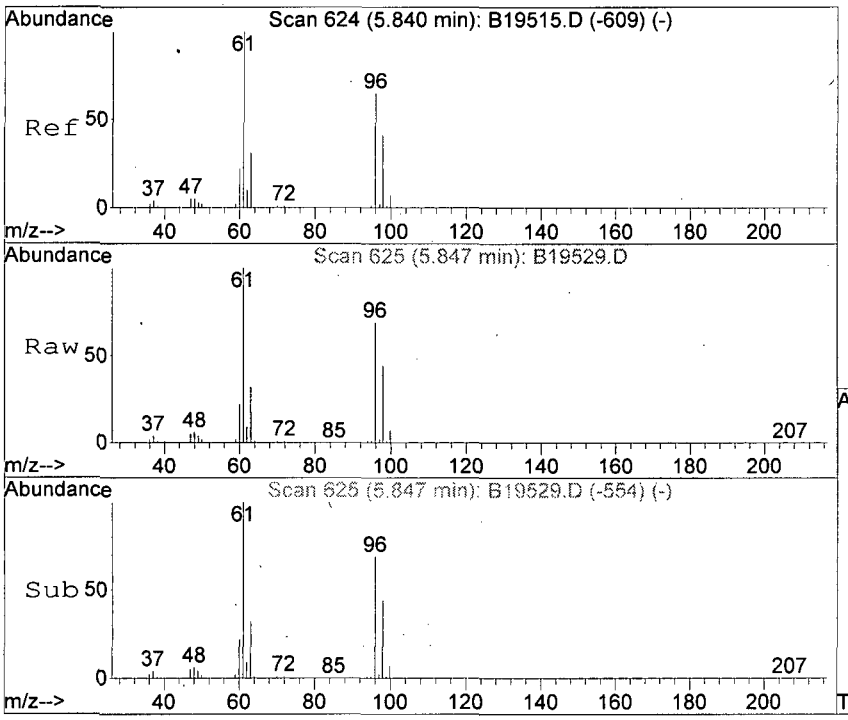
Vial: 7
Operator: SB
Inst : B-5973
Multiplr: 1.00



#17
trans-1,2-Dichloroethene
Concen: 0.75 ug/L
RT: 4.16 min Scan# 389
Delta R.T. 0.01 min
Integration Range:
Scan=377 to 409
R.T.= 4.07 to 4.30 (min)
Tgt Ion: 96 Resp: 355005

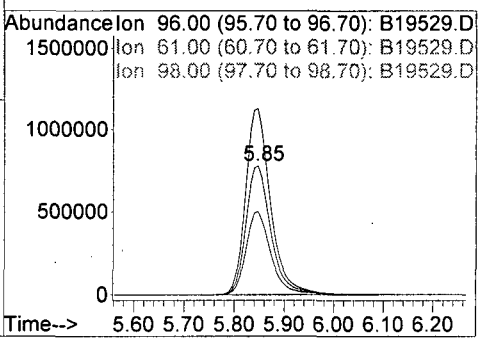
Ion	Ratio	Lower	Upper
96	100		
61	159.9	121.5	182.3
98	63.0	50.6	75.8





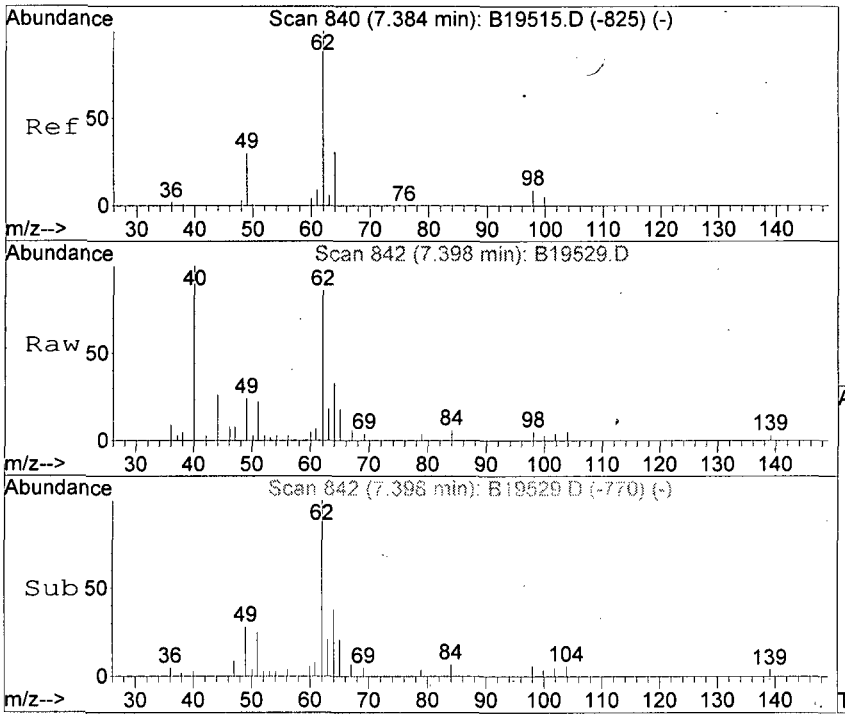
#20
cis-1,2-Dichloroethene
Concen: 56.37 ug/L
RT: 5.85 min Scan# 625
Delta R.T. 0.01 min
Integration Range:
Scan=609 to 659
R.T.= 5.73 to 6.09 (min)
Tgt Ion: 96 Resp:27069399

Ion	Ratio	Lower	Upper
96	100		
61	144.7	110.2	165.4
98	64.2	51.4	77.0



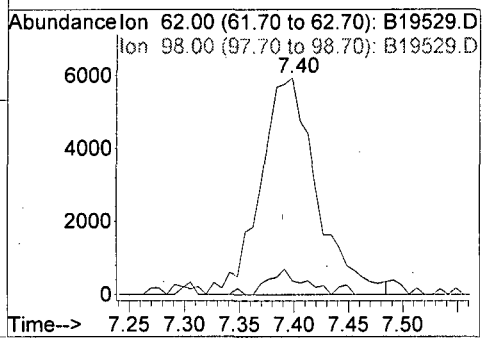
Data File : C:\MSDChem\1\DATA\B19529.D
Acq.On : 11/26/08 17:29
Sample : F2XF7 2X
Misc : S-2066.12 25ML
MS Integration Params: LSCINT.E

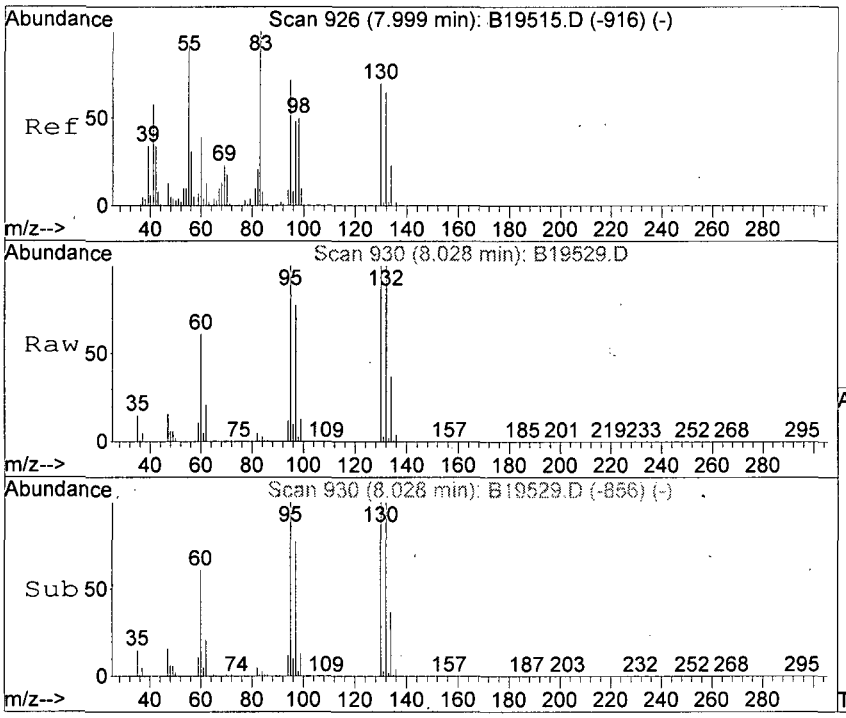
Vial: 7
Operator: SB
Inst : B-5973
Multiplr: 1.00



#27
1,2-Dichloroethane
Concen: 0.40 ug/L
RT: 7.40 min Scan# 842
Delta R.T. 0.01 min
Integration Range:
Scan=831 to 854
R.T.= 7.32 to 7.48 (min)
Tgt Ion: 62 Resp: 210019

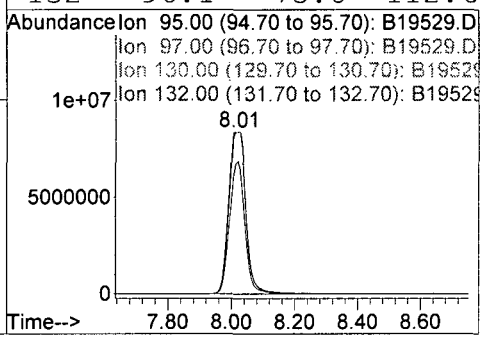
Ion	Ratio	Lower	Upper
62	100		
98	7.0	7.0	10.4





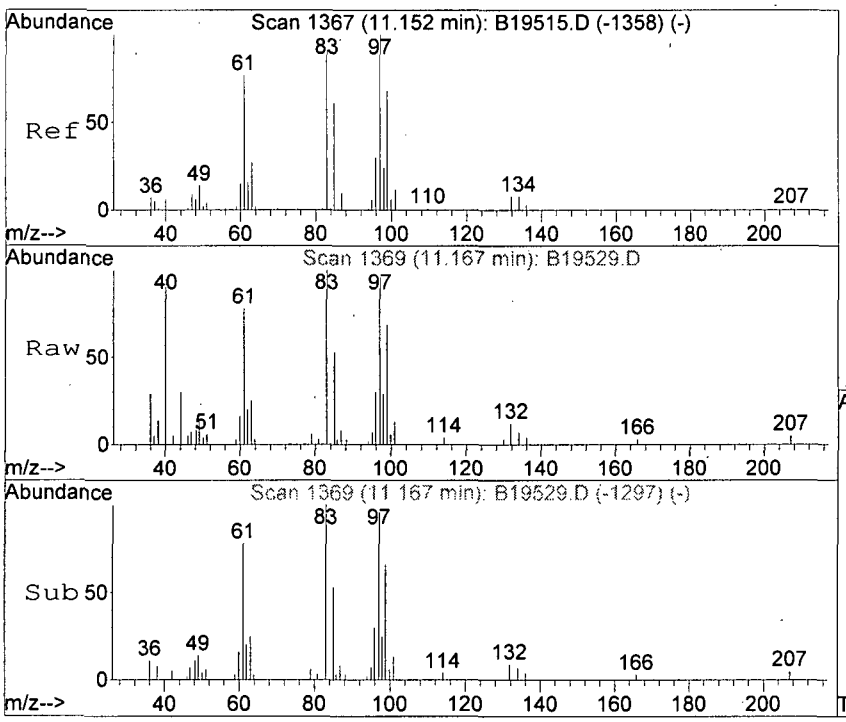
#34
Trichloroethene
Concen: 820.92 ug/L
RT: 8.02 min Scan# 930
Delta R.T. 0.02 min
Integration Range:
Scan=914 to 992
R.T.= 7.91 to 8.47 (min)
Tgt Ion: 95 Resp:321167504

Ion	Ratio	Lower	Upper
95	100		
97	71.9	51.2	76.8
130	97.0	77.5	116.3
132	96.1	75.0	112.6



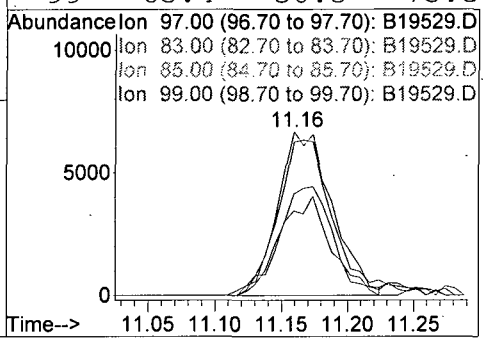
Data File : C:\MSDChem\1\DATA\B19529.D
Acq. On : 11/26/08 17:29
Sample : F2XF7 2X
Misc : S-2066.12 25ML
MS Integration Params: LSCINT.E

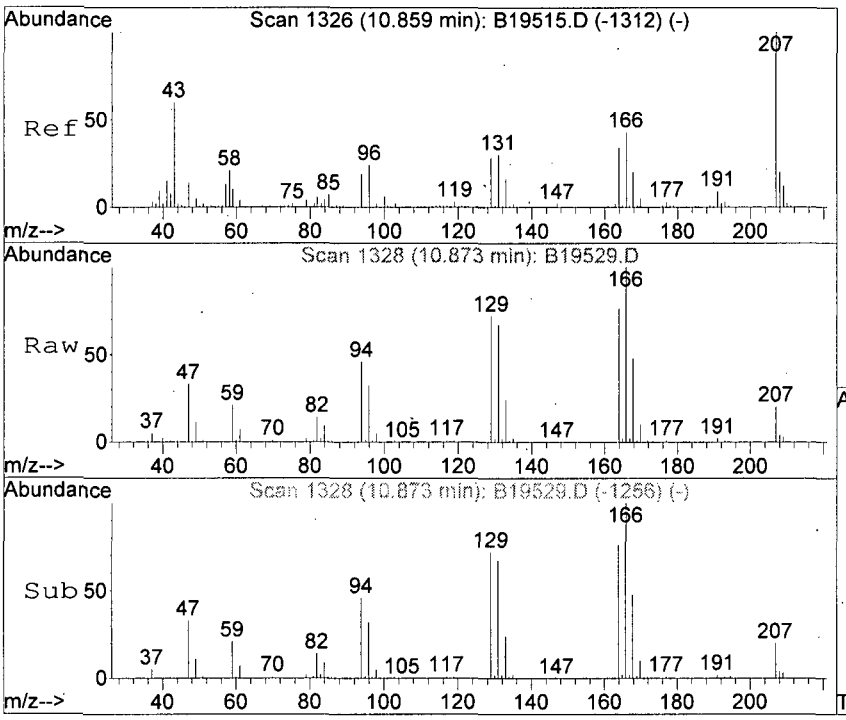
Vial: 7
Operator: SB
Inst : B-5973
Multiplr: 1.00



#45
1,1,2-Trichloroethane
Concen: 0.87 ug/L
RT: 11.16 min Scan# 1369
Delta R.T. 0.01 min
Integration Range:
Scan=1359 to 1377
R.T.= 11.10 to 11.22 (min)
Tgt Ion: 97 Resp: 191731

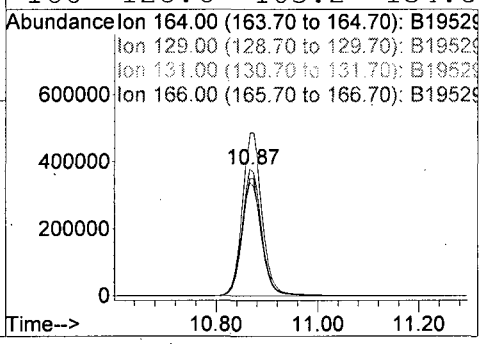
Ion	Ratio	Lower	Upper
97	100		
83	98.2	69.8	104.8
85	59.2	44.6	66.8
99	65.4	50.3	75.5





#46
Tetrachloroethene
Concen: 29.58 ug/L
RT: 10.87 min Scan# 1328
Delta R.T. 0.01 min
Integration Range:
Scan=1314 to 1363
R.T.= 10.77 to 11.12 (min)
Tgt Ion:164 Resp:10206994

Ion	Ratio	Lower	Upper
164	100		
129	92.4	71.8	107.8
131	88.3	68.6	103.0
166	128.6	103.2	154.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	3	26	105	PH	17365712	2120338501	100.00%	45.102%
2	2.150	105	108	112	VV	333021	10807107	0.51%	0.230%
3	2.193	112	114	117	VV	322280	5684549	0.27%	0.121%
4	2.272	117	125	138	VV	342112	23347386	1.10%	0.497%
5	2.393	138	142	155	VV 2	78821	3698831	0.17%	0.079%
6	2.500	155	157	160	VV 3	18825	345866	0.02%	0.007%
7	2.536	160	162	169	VV 5	18570	573276	0.03%	0.012%
8	2.593	169	170	172	VV 2	15465	192196	0.01%	0.004%
9	2.622	172	174	178	VV 4	12576	334934	0.02%	0.007%
10	2.665	178	180	189	VV 7	11394	493317	0.02%	0.010%
11	2.751	189	192	194	VV 5	12896	270212	0.01%	0.006%
12	2.786	194	197	199	VV 3	12187	221684	0.01%	0.005%
13	2.815	199	201	206	VV 6	12743	406320	0.02%	0.009%
14	2.865	206	208	217	VV 5	12561	470866	0.02%	0.010%
15	2.937	217	218	221	VV 2	9748	146813	0.01%	0.003%
16	2.965	221	222	224	VV	8658	124287	0.01%	0.003%
17	3.008	224	228	233	VV 2	8882	282985	0.01%	0.006%
18	3.137	233	246	273	VV 2	355165	14284039	0.67%	0.304%
19	3.344	273	275	277	VV 2	7589	123985	0.01%	0.003%
20	3.373	277	279	282	VV 2	6568	128081	0.01%	0.003%
21	3.409	282	284	285	VV	6646	79363	0.00%	0.002%
22	3.437	285	288	290	VV 2	8697	149195	0.01%	0.003%
23	3.466	290	292	299	VV 5	8053	260688	0.01%	0.006%
24	3.552	299	304	312	VV 4	6305	272561	0.01%	0.006%
25	3.652	312	318	320	VV 3	6306	191059	0.01%	0.004%
26	3.687	320	323	325	VV 3	5357	120786	0.01%	0.003%
27	3.716	325	327	331	VV	5886	119520	0.01%	0.003%
28	3.773	331	335	343	VV	5956	269823	0.01%	0.006%
29	3.852	343	346	347	VV 2	5328	74681	0.00%	0.002%
30	3.909	347	354	361	VV 5	9367	460009	0.02%	0.010%
31	3.973	361	363	365	VV	7234	94213	0.00%	0.002%
32	3.995	365	366	372	VV 3	7713	182650	0.01%	0.004%
33	4.045	372	373	376	VV 2	6575	111565	0.01%	0.002%
34	4.159	376	389	409	VV 3	56198	2595599	0.12%	0.055%
35	4.309	409	410	412	VV 2	6296	87496	0.00%	0.002%
36	4.352	412	416	419	VV 4	7345	200410	0.01%	0.004%
37	4.388	419	421	427	VV 4	7160	186707	0.01%	0.004%
38	4.445	427	429	433	VV	6274	134334	0.01%	0.003%
39	4.538	433	442	448	VV 2	6016	338229	0.02%	0.007%
40	4.603	448	451	453	VV	5689	97109	0.00%	0.002%
41	4.624	453	454	462	VV 2	6027	214695	0.01%	0.005%
42	4.710	462	466	472	VV 2	5842	217159	0.01%	0.005%
43	4.767	472	474	476	VV	6467	68618	0.00%	0.001%
44	4.810	476	480	482	VV 2	5442	135134	0.01%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.874	482	489	494	VV	3	5656	248848	0.01%	0.005%
46	4.924	494	496	498	VV		5354	87870	0.00%	0.002%
47	4.953	498	500	504	VV	2	5681	125690	0.01%	0.003%
48	5.039	504	512	525	VV	5	12204	721290	0.03%	0.015%
49	5.146	525	527	529	VV	2	5272	86526	0.00%	0.002%
50	5.175	529	531	533	VV		5853	75947	0.00%	0.002%
51	5.203	533	535	537	VV		5282	103888	0.00%	0.002%
52	5.253	537	542	545	VV	3	5770	161685	0.01%	0.003%
53	5.282	545	546	548	VV		5186	61848	0.00%	0.001%
54	5.311	548	550	553	VV		6120	118050	0.01%	0.003%
55	5.346	553	555	558	VV	2	4975	104277	0.00%	0.002%
56	5.382	558	560	562	VV		6345	89436	0.00%	0.002%
57	5.403	562	563	565	VV		6053	63828	0.00%	0.001%
58	5.432	565	567	572	VV		8840	181180	0.01%	0.004%
59	5.489	572	575	581	VV	2	6425	202238	0.01%	0.004%
60	5.582	581	588	590	VV		6000	191908	0.01%	0.004%
61	5.618	590	593	606	VV	3	6366	377490	0.02%	0.008%
62	5.725	606	608	613	VV	2	5762	159038	0.01%	0.003%
63	5.847	613	625	665	VV		3577188	126116956	5.95%	2.683%
64	6.147	665	667	672	VV	3	13553	363973	0.02%	0.008%
65	6.269	672	684	717	VV	2	340736	13893630	0.66%	0.296%
66	6.519	717	719	723	VV	2	8413	180337	0.01%	0.004%
67	6.555	723	724	726	VV		7733	93815	0.00%	0.002%
68	6.576	726	727	729	VV	2	7713	103525	0.00%	0.002%
69	6.605	729	731	733	VV		8328	112539	0.01%	0.002%
70	6.676	733	741	759	VV		97150	4626808	0.22%	0.098%
71	6.819	759	761	765	VV	3	13906	295272	0.01%	0.006%
72	6.862	765	767	768	VV	2	11398	165995	0.01%	0.004%
73	6.891	768	771	773	VV	3	11254	219346	0.01%	0.005%
74	6.934	773	777	781	VV	5	10024	321293	0.02%	0.007%
75	6.977	781	783	785	VV		9232	128084	0.01%	0.003%
76	7.069	785	796	818	VV		620465	21621006	1.02%	0.460%
77	7.291	818	827	838	VV		195948	7181779	0.34%	0.153%
78	7.406	838	843	860	VV	3	32072	1525338	0.07%	0.032%
79	7.541	860	862	867	VV	3	8720	238072	0.01%	0.005%
80	7.606	867	871	873	VV	4	8168	205861	0.01%	0.004%
81	7.641	873	876	878	VV	2	8613	179343	0.01%	0.004%
82	7.670	878	880	882	VV	2	9330	124476	0.01%	0.003%
83	7.699	882	884	893	VV	4	9238	397553	0.02%	0.008%
84	7.777	893	895	897	VV	2	8022	117980	0.01%	0.003%
85	7.799	897	898	900	VV		7369	119196	0.01%	0.003%
86	7.835	900	903	907	VV	2	8088	215804	0.01%	0.005%
87	7.892	907	911	913	VV	2	7367	169389	0.01%	0.004%
88	8.020	913	929	982	VV	2	59180964	1997998153	94.23%	42.500%
89	8.414	982	984	993	VV	8	21693	905000	0.04%	0.019%
90	8.492	993	995	999	VV	3	18259	427478	0.02%	0.009%
91	8.535	999	1001	1006	VV	6	16898	512588	0.02%	0.011%

0344

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	8.643	1006	1016	1044	VV	415281	14993499	0.71%	0.319%
93	8.850	1044	1045	1048	VV 3	15418	268052	0.01%	0.006%
94	8.879	1048	1049	1058	VV 6	14581	544250	0.03%	0.012%
95	8.950	1058	1059	1062	VV	13331	236583	0.01%	0.005%
96	8.986	1062	1064	1070	VV 4	12512	443166	0.02%	0.009%
97	9.043	1070	1072	1078	VV 4	12789	381187	0.02%	0.008%
98	9.100	1078	1080	1084	VV 3	12025	286612	0.01%	0.006%
99	9.179	1084	1091	1101	VV 7	12450	846567	0.04%	0.018%
100	9.265	1101	1103	1105	VV 2	11740	200778	0.01%	0.004%
101	9.293	1105	1107	1111	VV 4	12594	300854	0.01%	0.006%
102	9.329	1111	1112	1114	VV 2	11660	148872	0.01%	0.003%
103	9.379	1114	1119	1136	VV 4	12261	1031916	0.05%	0.022%
104	9.543	1136	1142	1144	VV 3	11660	380526	0.02%	0.008%
105	9.565	1144	1145	1147	VV 2	11225	153823	0.01%	0.003%
106	9.594	1147	1149	1155	VV 5	11477	372602	0.02%	0.008%
107	9.651	1155	1157	1161	VV 3	10993	265052	0.01%	0.006%
108	9.694	1161	1163	1165	VV	11562	181701	0.01%	0.004%
109	9.722	1165	1167	1173	VV 4	10398	313749	0.01%	0.007%
110	9.851	1173	1185	1206	VV	482026	15228953	0.72%	0.324%
111	10.008	1206	1207	1210	VV 3	15303	230209	0.01%	0.005%
112	10.044	1210	1212	1219	VV 5	15003	537455	0.03%	0.011%
113	10.115	1219	1222	1223	VV 3	12778	191647	0.01%	0.004%
114	10.187	1223	1232	1251	VV	809069	23079215	1.09%	0.491%
115	10.330	1251	1252	1257	VV 3	16180	392492	0.02%	0.008%
116	10.380	1257	1259	1263	VV 4	13443	300124	0.01%	0.006%
117	10.416	1263	1264	1275	VV 5	12444	599029	0.03%	0.013%
118	10.516	1275	1278	1281	VV 4	12149	290857	0.01%	0.006%
119	10.552	1281	1283	1286	VV 3	11408	229281	0.01%	0.005%
120	10.587	1286	1288	1293	VV 2	11967	325002	0.02%	0.007%
121	10.637	1293	1295	1299	VV 2	10962	263342	0.01%	0.006%
122	10.702	1299	1304	1309	VV	11001	436847	0.02%	0.009%
123	10.752	1309	1311	1316	VV 3	11221	294634	0.01%	0.006%
124	10.873	1316	1328	1362	VV 2	3204268	98149780	4.63%	2.088%
125	11.174	1362	1370	1383	VV 4	54487	2390420	0.11%	0.051%
126	11.274	1383	1384	1393	VV 4	13908	557379	0.03%	0.012%
127	11.352	1393	1395	1397	VV 2	13392	195921	0.01%	0.004%
128	11.374	1397	1398	1403	VV 3	11667	310299	0.01%	0.007%
129	11.481	1403	1413	1418	VV 3	12454	718639	0.03%	0.015%
130	11.524	1418	1419	1424	VV 3	12594	327589	0.02%	0.007%
131	11.581	1424	1427	1428	VV 2	12383	200172	0.01%	0.004%
132	11.617	1428	1432	1437	VV 3	12399	419793	0.02%	0.009%
133	11.710	1437	1445	1449	VV 4	11661	559713	0.03%	0.012%
134	11.767	1449	1453	1457	VV 3	12013	378606	0.02%	0.008%
135	11.810	1457	1459	1460	VV 2	11506	177135	0.01%	0.004%
136	11.832	1460	1462	1466	VV 2	11729	277123	0.01%	0.006%
137	11.889	1466	1470	1472	VV 2	11638	263953	0.01%	0.006%
138	11.917	1472	1474	1480	VV 3	11913	394065	0.02%	0.008%
139	11.982	1480	1483	1485	VV 2	11658	205447	0.01%	0.004%

0345

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	12.010	1485	1487	1490	VV	3	11458	261598	0.01%	0.006%
141	12.046	1490	1492	1494	VV	2	11349	170330	0.01%	0.004%
142	12.089	1494	1498	1501	VV	3	11396	348547	0.02%	0.007%
143	12.125	1501	1503	1505	VV	2	11452	184284	0.01%	0.004%
144	12.218	1505	1516	1535	VV	2	390659	12472694	0.59%	0.265%
145	12.368	1535	1537	1546	VV	3	19848	764926	0.04%	0.016%
146	12.439	1546	1547	1550	VV	2	14856	251777	0.01%	0.005%
147	12.475	1550	1552	1559	VV	6	14306	529822	0.02%	0.011%
148	12.539	1559	1561	1566	VV	4	14078	395153	0.02%	0.008%
149	12.654	1566	1577	1591	VV		324712	10013810	0.47%	0.213%
150	12.768	1591	1593	1594	VV		15606	172457	0.01%	0.004%
151	12.790	1594	1596	1604	VV	6	17365	646955	0.03%	0.014%
152	12.883	1604	1609	1613	VV	3	13516	481142	0.02%	0.010%
153	12.940	1613	1617	1622	VV	2	13151	474159	0.02%	0.010%
154	13.054	1622	1633	1641	VV	4	14994	1036638	0.05%	0.022%
155	13.133	1641	1644	1646	VV	2	12803	259094	0.01%	0.006%
156	13.204	1646	1654	1656	VV	2	12473	536919	0.03%	0.011%
157	13.240	1656	1659	1661	VV	4	11662	246709	0.01%	0.005%
158	13.283	1661	1665	1671	VV	2	12164	483430	0.02%	0.010%
159	13.340	1671	1673	1677	VV	2	11334	261447	0.01%	0.006%
160	13.383	1677	1679	1681	VV	2	11849	233029	0.01%	0.005%
161	13.433	1681	1686	1690	VV	4	12637	438489	0.02%	0.009%
162	13.476	1690	1692	1701	VV	4	12850	561458	0.03%	0.012%
163	13.555	1701	1703	1705	VV		12105	170998	0.01%	0.004%
164	13.591	1705	1708	1710	VV	2	12845	293847	0.01%	0.006%
165	13.612	1710	1711	1715	VV	3	12059	233913	0.01%	0.005%
166	13.655	1715	1717	1719	VV	2	12666	183801	0.01%	0.004%
167	13.676	1719	1720	1724	VV		12663	288553	0.01%	0.006%
168	13.726	1724	1727	1732	VV	3	12589	399795	0.02%	0.009%
169	13.798	1732	1737	1740	VV	4	12583	382688	0.02%	0.008%
170	13.826	1740	1741	1747	VV	4	11825	358989	0.02%	0.008%
171	13.877	1747	1748	1750	VV		12477	171010	0.01%	0.004%
172	13.927	1750	1755	1757	VV	3	12671	366607	0.02%	0.008%
173	13.962	1757	1760	1763	VV	3	12442	285229	0.01%	0.006%
174	13.991	1763	1764	1773	VV	3	12683	481973	0.02%	0.010%
175	14.084	1773	1777	1778	VV	3	12239	299600	0.01%	0.006%
176	14.105	1778	1780	1785	VV	3	12029	330711	0.02%	0.007%
177	14.170	1785	1789	1794	VV	2	12264	455618	0.02%	0.010%
178	14.220	1794	1796	1798	VV	2	12628	232304	0.01%	0.005%
179	14.248	1798	1800	1806	VV	3	12034	348452	0.02%	0.007%
180	14.327	1806	1811	1813	VV	3	12898	403525	0.02%	0.009%
181	14.370	1813	1817	1820	VV		12521	321406	0.02%	0.007%
182	14.398	1820	1821	1826	VV	2	11496	314911	0.01%	0.007%
183	14.449	1826	1828	1832	VV	3	12326	318833	0.02%	0.007%
184	14.491	1832	1834	1841	VV	3	13424	490045	0.02%	0.010%
185	14.556	1841	1843	1847	VV	2	12319	286821	0.01%	0.006%
186	14.599	1847	1849	1852	VV	2	13105	275686	0.01%	0.006%

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Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.634	1852	1854	1861	VV	4	12489	441305	0.02%	0.009%
188	14.713	1861	1865	1869	VV	2	12553	424898	0.02%	0.009%
189	14.763	1869	1872	1874	VV	2	12690	237269	0.01%	0.005%
190	14.806	1874	1878	1880	VV	3	12480	320915	0.02%	0.007%
191	14.835	1880	1882	1885	VV	2	12231	261199	0.01%	0.006%
192	14.906	1885	1892	1895	VV		18181	555506	0.03%	0.012%
193	14.985	1895	1903	1913	VV		92814	3246984	0.15%	0.069%
194	15.128	1913	1923	1933	VV		197958	6075830	0.29%	0.129%
195	15.235	1933	1938	1956	VV	4	15638	1292712	0.06%	0.027%
196	15.378	1956	1958	1960	VV	2	13152	213547	0.01%	0.005%
197	15.400	1960	1961	1964	VV	2	13437	215512	0.01%	0.005%
198	15.450	1964	1968	1970	VV	2	12824	324905	0.02%	0.007%
199	15.492	1970	1974	1977	VV	3	12960	403250	0.02%	0.009%
200	15.557	1977	1983	1987	VV	2	13637	553870	0.03%	0.012%
201	15.600	1987	1989	1991	VV	2	13635	191727	0.01%	0.004%
202	15.635	1991	1994	1997	VV	2	13370	339476	0.02%	0.007%
203	15.671	1997	1999	2003	VV	3	12875	341428	0.02%	0.007%
204	15.714	2003	2005	2007	VV	2	13079	182548	0.01%	0.004%
205	15.736	2007	2008	2010	VV		12655	155898	0.01%	0.003%
206	15.764	2010	2012	2014	VV	2	13479	250102	0.01%	0.005%
207	15.793	2014	2016	2019	VV	3	13269	271335	0.01%	0.006%
208	15.829	2019	2021	2029	VV	2	13759	545962	0.03%	0.012%
209	15.936	2029	2036	2040	VV	3	13596	621740	0.03%	0.013%
210	15.979	2040	2042	2045	VV	3	13588	258165	0.01%	0.005%
211	16.022	2045	2048	2053	VV	3	13621	429447	0.02%	0.009%
212	16.100	2053	2059	2062	VV	3	14113	546823	0.03%	0.012%
213	16.165	2062	2068	2072	VV	3	14346	526321	0.02%	0.011%
214	16.250	2072	2080	2085	VV	3	13614	767086	0.04%	0.016%
215	16.300	2085	2087	2095	VV	4	14022	546745	0.03%	0.012%
216	16.408	2095	2102	2104	VV	3	13925	489384	0.02%	0.010%
217	16.429	2104	2105	2109	VV		13624	274736	0.01%	0.006%
218	16.515	2109	2117	2120	VV	4	13916	674721	0.03%	0.014%
219	16.579	2120	2126	2129	VV	4	14973	472164	0.02%	0.010%
220	16.608	2129	2130	2136	VV	3	14551	454841	0.02%	0.010%
221	16.737	2136	2148	2162	VV		235867	7496890	0.35%	0.159%
222	16.851	2162	2164	2168	VV	4	15763	404750	0.02%	0.009%
223	16.894	2168	2170	2177	VV	3	14258	495949	0.02%	0.011%
224	16.958	2177	2179	2183	VV	2	14657	347560	0.02%	0.007%
225	17.001	2183	2185	2191	VV	3	14718	482732	0.02%	0.010%
226	17.058	2191	2193	2196	VV		14140	314391	0.01%	0.007%
227	17.101	2196	2199	2202	VV		14172	314278	0.01%	0.007%
228	17.137	2202	2204	2206	VV		14251	236660	0.01%	0.005%
229	17.194	2206	2212	2216	VV	2	14637	614395	0.03%	0.013%
230	17.237	2216	2218	2223	VV	2	13597	399900	0.02%	0.009%
231	17.294	2223	2226	2230	VV	2	14220	424158	0.02%	0.009%
232	17.337	2230	2232	2240	VV	4	14372	609741	0.03%	0.013%
233	17.487	2240	2253	2265	VV		518263	14704232	0.69%	0.313%
234	17.587	2265	2267	2269	VV	3	17665	259676	0.01%	0.006%

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	17.616	2269	2271	2277	VV		16919	521128	0.02%	0.011%
236	17.666	2277	2278	2282	VV	2	15517	320013	0.02%	0.007%
237	17.730	2282	2287	2290	VV	3	14916	508842	0.02%	0.011%
238	17.766	2290	2292	2294	VV	2	14992	231570	0.01%	0.005%
239	17.788	2294	2295	2308	VV	3	15330	879835	0.04%	0.019%
240	17.924	2308	2314	2316	VV	2	15248	500057	0.02%	0.011%
241	17.945	2316	2317	2322	VV	3	14633	350527	0.02%	0.007%
242	18.009	2322	2326	2329	VV	3	14820	459654	0.02%	0.010%
243	18.045	2329	2331	2334	VV	2	14889	328892	0.02%	0.007%
244	18.088	2334	2337	2339	VV	2	14641	260060	0.01%	0.006%
245	18.124	2339	2342	2346	VV	3	14611	417183	0.02%	0.009%
246	18.195	2346	2352	2356	VV	3	15322	627436	0.03%	0.013%
247	18.238	2356	2358	2360	VV	2	15008	284348	0.01%	0.006%
248	18.274	2360	2363	2364	VV	2	14732	259854	0.01%	0.006%
249	18.302	2364	2367	2374	VV	4	15433	610107	0.03%	0.013%
250	18.424	2374	2384	2393	VV		40353	1794167	0.08%	0.038%
251	18.496	2393	2394	2397	VV	3	15054	238287	0.01%	0.005%
252	18.524	2397	2398	2400	VV	2	14471	214654	0.01%	0.005%
253	18.567	2400	2404	2405	VV	2	15438	321538	0.02%	0.007%
254	18.589	2405	2407	2409	VV		15288	221178	0.01%	0.005%
255	18.631	2409	2413	2417	VV	2	15321	501890	0.02%	0.011%
256	18.689	2417	2421	2429	VV	2	15761	778082	0.04%	0.017%
257	18.760	2429	2431	2436	VV	3	14873	474472	0.02%	0.010%
258	18.810	2436	2438	2446	VV		15488	611154	0.03%	0.013%
259	18.910	2446	2452	2457	VV	3	14986	691526	0.03%	0.015%
260	18.960	2457	2459	2461	VV	2	15249	216132	0.01%	0.005%
261	18.989	2461	2463	2469	VV	2	15763	540233	0.03%	0.011%
262	19.060	2469	2473	2477	VV	4	15506	530188	0.03%	0.011%
263	19.103	2477	2479	2486	VV		15785	580970	0.03%	0.012%
264	19.211	2486	2494	2506	VV	3	15722	1251553	0.06%	0.027%
265	19.311	2506	2508	2512	VV		16409	404224	0.02%	0.009%
266	19.361	2512	2515	2525	VV	3	15553	859975	0.04%	0.018%
267	19.454	2525	2528	2533	VV	2	15930	537885	0.03%	0.011%
268	19.504	2533	2535	2537	VV	2	15228	245042	0.01%	0.005%
269	19.540	2537	2540	2543	VV	2	15907	414023	0.02%	0.009%
270	19.604	2543	2549	2553	VV	4	16041	659591	0.03%	0.014%
271	19.647	2553	2555	2558	VV	3	15559	312420	0.01%	0.007%
272	19.683	2558	2560	2562	VV		15880	215959	0.01%	0.005%
273	19.718	2562	2565	2568	VV		16514	436522	0.02%	0.009%
274	19.754	2568	2570	2574	VV	3	15700	389909	0.02%	0.008%
275	19.790	2574	2575	2581	VV	3	16165	503109	0.02%	0.011%
276	19.847	2581	2583	2585	VV		15385	206136	0.01%	0.004%
277	19.876	2585	2587	2588	VV		16310	235451	0.01%	0.005%
278	19.897	2588	2590	2592	VV	2	15923	280796	0.01%	0.006%
279	19.933	2592	2595	2600	VV		16045	499353	0.02%	0.011%
280	19.983	2600	2602	2607	VV	3	16460	491688	0.02%	0.010%
281	20.061	2607	2613	2615	VV	2	16655	539330	0.03%	0.011%

0348

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	20.090	2615	2617	2619	VV		16124	250177	0.01%	0.005%
283	20.154	2619	2626	2627	VV	3	16503	572095	0.03%	0.012%
284	20.183	2627	2630	2647	VV	4	16710	1310385	0.06%	0.028%
285	20.312	2647	2648	2650	VV	2	16356	242114	0.01%	0.005%
286	20.362	2650	2655	2658	VV	2	17998	574820	0.03%	0.012%
287	20.398	2658	2660	2662	VV	2	15823	270448	0.01%	0.006%
288	20.440	2662	2666	2667	VV	4	15773	300076	0.01%	0.006%
289	20.462	2667	2669	2674	VV	3	16250	484846	0.02%	0.010%
290	20.526	2674	2678	2681	VV	3	16267	500827	0.02%	0.011%
291	20.583	2681	2686	2688	VV		17037	440921	0.02%	0.009%
292	20.655	2688	2696	2701	VV	3	16742	907013	0.04%	0.019%
293	20.705	2701	2703	2709	VV	3	16563	529012	0.02%	0.011%
294	20.755	2709	2710	2712	VV		16623	232261	0.01%	0.005%
295	20.798	2712	2716	2719	VV	2	16287	458774	0.02%	0.010%
296	20.834	2719	2721	2722	VV		16782	246589	0.01%	0.005%
297	20.869	2722	2726	2727	VV	2	16987	353864	0.02%	0.008%
298	20.884	2727	2728	2735	VV	3	16368	548554	0.03%	0.012%
299	20.970	2735	2740	2741	VV	3	16300	413029	0.02%	0.009%
300	20.991	2741	2743	2744	VV		16306	214631	0.01%	0.005%
301	21.012	2744	2746	2748	VV	3	16531	271173	0.01%	0.006%
302	21.077	2748	2755	2763	VV	2	17478	1044774	0.05%	0.022%
303	21.148	2763	2765	2766	VV	2	16181	179448	0.01%	0.004%
304	21.170	2766	2768	2770	VV		16909	285405	0.01%	0.006%
305	21.191	2770	2771	2775	VV	2	16246	364008	0.02%	0.008%
306	21.248	2775	2779	2782	VV	3	16727	451687	0.02%	0.010%
307	21.277	2782	2783	2786	VV	2	16288	306299	0.01%	0.007%
308	21.320	2786	2789	2792	VV		17362	415420	0.02%	0.009%
309	21.356	2792	2794	2796	VV		19746	317277	0.01%	0.007%
310	21.384	2796	2798	2800	VV	3	16579	286620	0.01%	0.006%
311	21.413	2800	2802	2804	VV	2	16456	228298	0.01%	0.005%
312	21.492	2804	2813	2817	VV	3	17671	949182	0.04%	0.020%
313	21.542	2817	2820	2822	VV	2	17063	383705	0.02%	0.008%
314	21.577	2822	2825	2827	VV	2	17121	321712	0.02%	0.007%
315	21.606	2827	2829	2834	VV	3	17089	489704	0.02%	0.010%
316	21.649	2834	2835	2841	VV	2	17197	511252	0.02%	0.011%
317	21.727	2841	2846	2862	VV	6	19532	1592342	0.08%	0.034%
318	21.870	2862	2866	2872	VV	3	17404	746102	0.04%	0.016%
319	21.928	2872	2874	2879	VV	2	17660	512435	0.02%	0.011%
320	21.978	2879	2881	2885	VV	2	17812	430836	0.02%	0.009%
321	22.021	2885	2887	2891	VV		17539	449361	0.02%	0.010%
322	22.064	2891	2893	2896	VV		17405	342534	0.02%	0.007%
323	22.099	2896	2898	2905	VV		18330	659600	0.03%	0.014%
324	22.178	2905	2909	2911	VV	2	17093	438984	0.02%	0.009%
325	22.207	2911	2913	2915	VV	2	17234	276678	0.01%	0.006%
326	22.257	2915	2920	2923	VV	2	17561	548214	0.03%	0.012%
327	22.299	2923	2926	2928	VV	2	18016	383976	0.02%	0.008%
328	22.321	2928	2929	2933	VV	2	17461	404642	0.02%	0.009%
329	22.385	2933	2938	2939	VV	2	17867	433826	0.02%	0.009%

0349

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	22.407	2939	2941	2947	VV 3	17908	580873	0.03%	0.012%
331	22.464	2947	2949	2952	VV 2	17611	333905	0.02%	0.007%
332	22.507	2952	2955	2960	VV	17846	591704	0.03%	0.013%
333	22.578	2960	2965	2971	VV 3	17916	829037	0.04%	0.018%
334	22.636	2971	2973	2976	VV	19912	374708	0.02%	0.008%
335	22.664	2976	2977	2981	VV 2	17948	378089	0.02%	0.008%
336	22.707	2981	2983	2987	VV 2	17789	429240	0.02%	0.009%
337	22.743	2987	2988	2997	VV 3	18401	763198	0.04%	0.016%
338	22.821	2997	2999	3000	VV	17473	266128	0.01%	0.006%
339	22.843	3000	3002	3007	VV 3	18231	521170	0.02%	0.011%
340	22.907	3007	3011	3016	VV 3	18315	680762	0.03%	0.014%
341	22.964	3016	3019	3021	VV 2	18191	350564	0.02%	0.007%
342	23.022	3021	3027	3029	VV 3	18456	629963	0.03%	0.013%
343	23.072	3029	3034	3039	VV 2	17954	722077	0.03%	0.015%
344	23.122	3039	3041	3044	VV 2	17810	384878	0.02%	0.008%
345	23.179	3044	3049	3054	VV 3	18193	764634	0.04%	0.016%
346	23.250	3054	3059	3068	VV 3	18276	1073423	0.05%	0.023%
347	23.336	3068	3071	3078	VV 2	18440	711220	0.03%	0.015%
348	23.408	3078	3081	3083	VV 2	18502	447488	0.02%	0.010%
349	23.458	3083	3088	3094	VV 3	19316	820865	0.04%	0.017%
350	23.515	3094	3096	3097	VV	18210	232716	0.01%	0.005%
351	23.536	3097	3099	3103	VV 2	18853	506039	0.02%	0.011%
352	23.594	3103	3107	3111	VV 2	18735	616199	0.03%	0.013%
353	23.651	3111	3115	3117	VV	18595	488094	0.02%	0.010%
354	23.679	3117	3119	3122	VV	18245	352340	0.02%	0.007%
355	23.715	3122	3124	3128	VV 2	18505	435017	0.02%	0.009%
356	23.751	3128	3129	3133	VV 2	18722	384772	0.02%	0.008%
357	23.787	3133	3134	3136	VV 2	18168	251933	0.01%	0.005%
358	23.837	3136	3141	3142	VV 3	18967	503978	0.02%	0.011%
359	23.873	3142	3146	3150	VV 2	19161	602489	0.03%	0.013%
360	23.908	3150	3151	3153	VV	19408	262174	0.01%	0.006%
361	23.944	3153	3156	3157	VV 2	18824	339365	0.02%	0.007%
362	23.965	3157	3159	3170	VV	19044	1035196	0.05%	0.022%
363	24.087	3170	3176	3187	VV 3	19192	1340278	0.06%	0.029%
364	24.223	3187	3195	3204	VV 2	19944	1364505	0.06%	0.029%
365	24.337	3204	3211	3213	VV 2	19477	773028	0.04%	0.016%
366	24.395	3213	3219	3222	VV 4	19173	674321	0.03%	0.014%
367	24.466	3222	3229	3247	VV 4	19459	2077186	0.10%	0.044%
368	24.616	3247	3250	3252	VV 2	19355	402085	0.02%	0.009%
369	24.652	3252	3255	3259	VV 3	19975	561642	0.03%	0.012%
370	24.695	3259	3261	3266	VV 2	20708	630449	0.03%	0.013%
371	24.766	3266	3271	3281	VBA4	20472	1223947	0.06%	0.026%

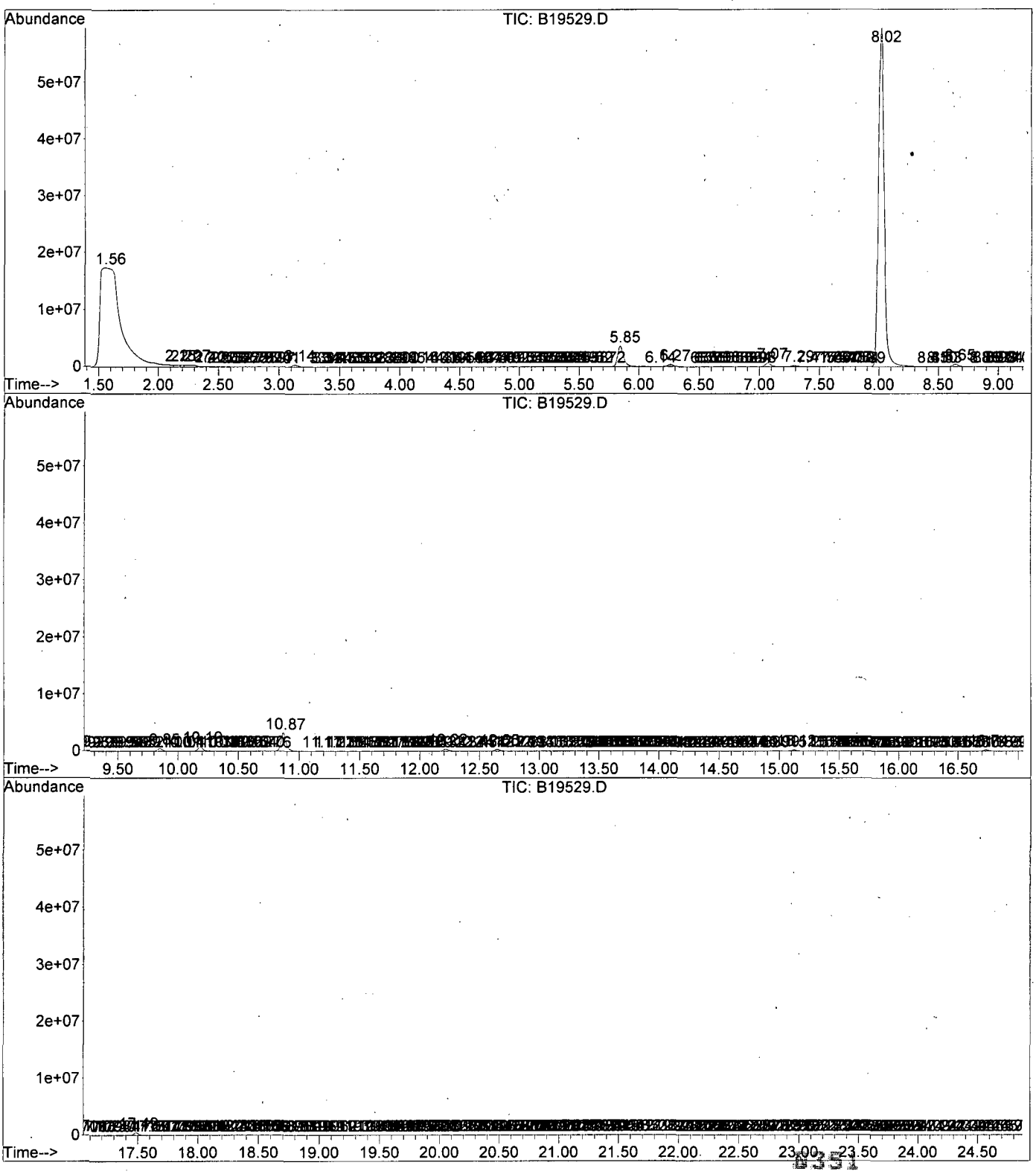
Sum of corrected areas: 4701211773

0350

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

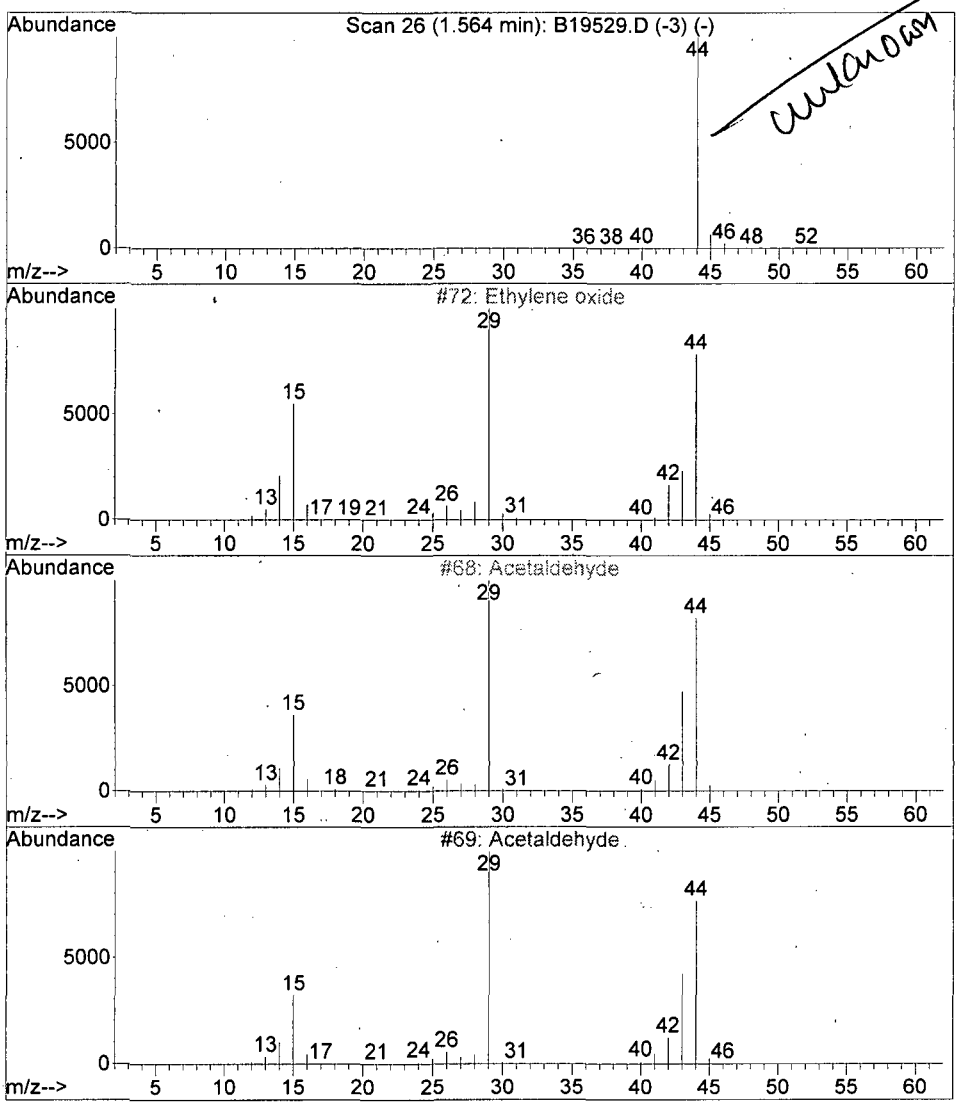
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

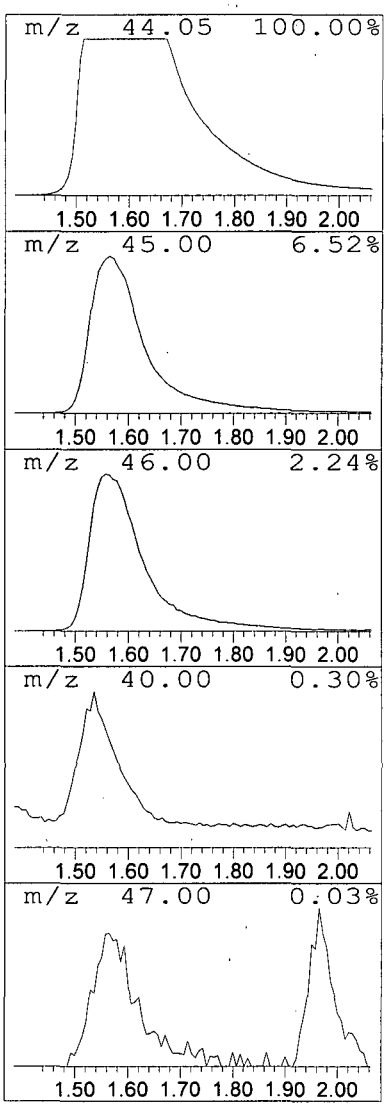
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	5.31 ug/L	2120340000	1,4-Difluorobenzene	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	Acetaldehyde	44	C2H4O	000075-07-0	3
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Propane	44	C3H8	000074-98-6	2





0352

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

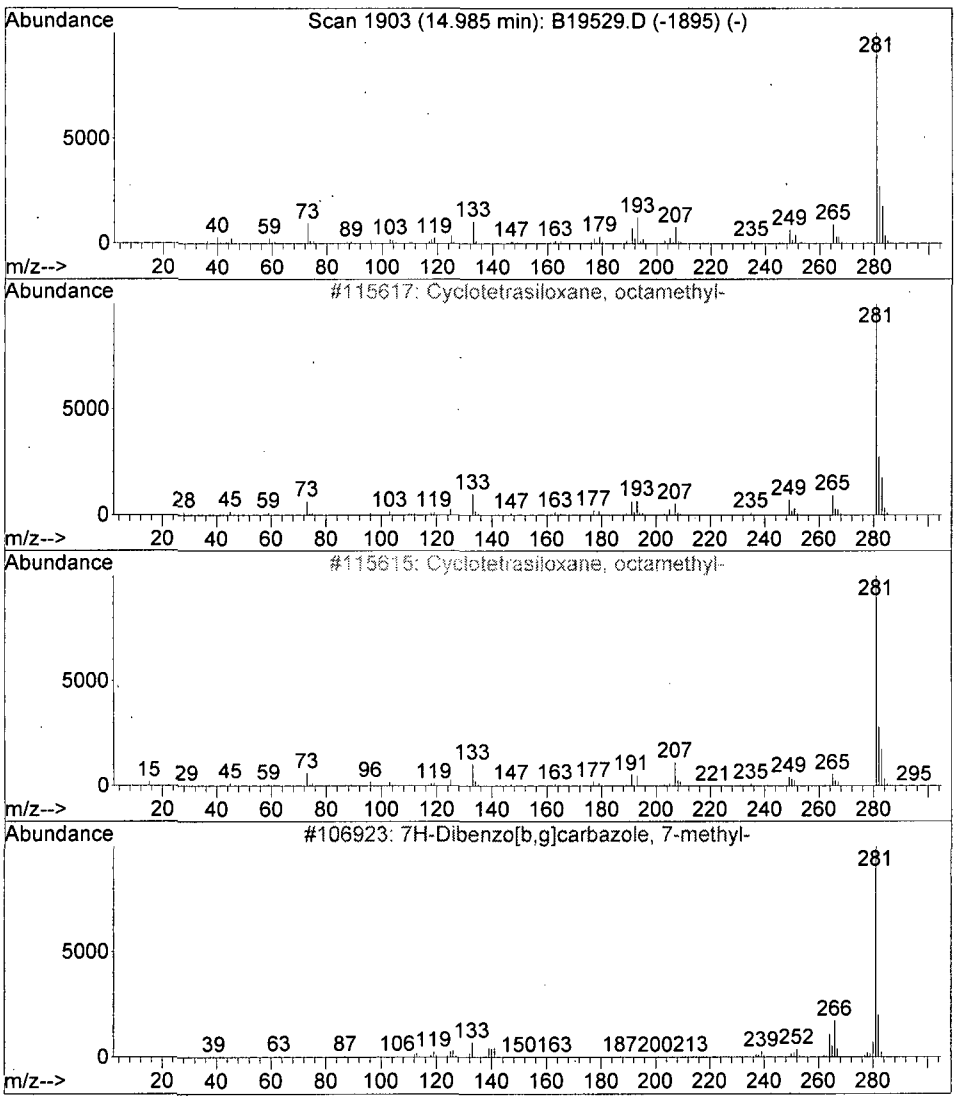
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

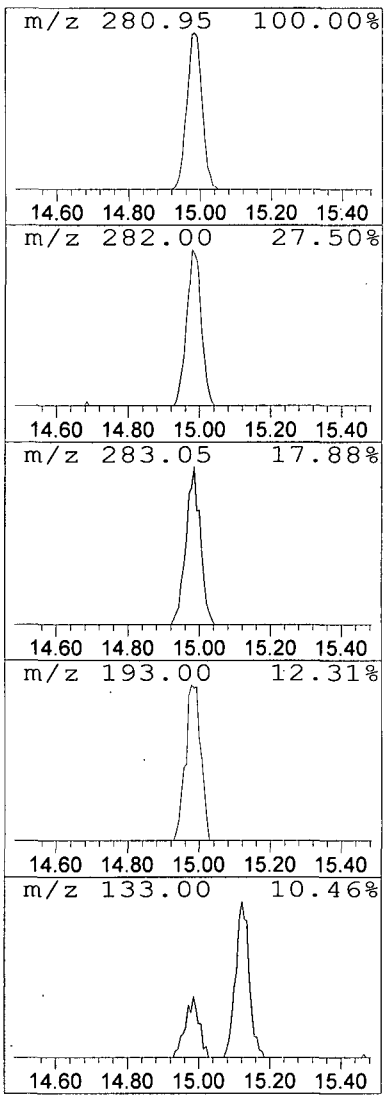
****

Peak Number 2 Cyclotetrasiloxane, octamet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	2.17 ug/L	3246980	1,4-Dichlorobenzene-d4	16.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	90
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	86
3	7H-Dibenzo[b,g]carbazole, 7-methyl-	281	C21H15N	003557-49-1	53
4	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	47
5	Benzoic acid, 5-methyl-2-trimeth...	296	C14H24O3Si2	1000153-59-4	45





0353

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

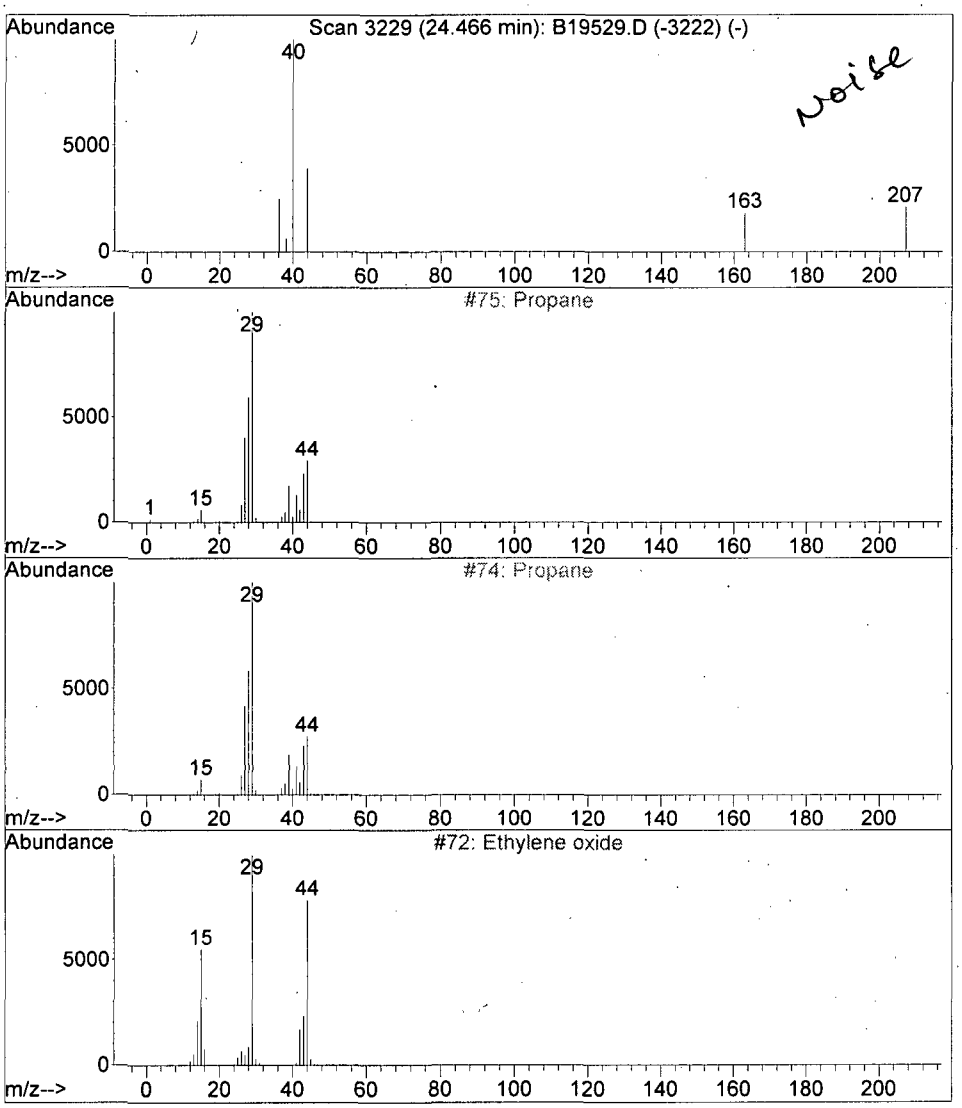
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

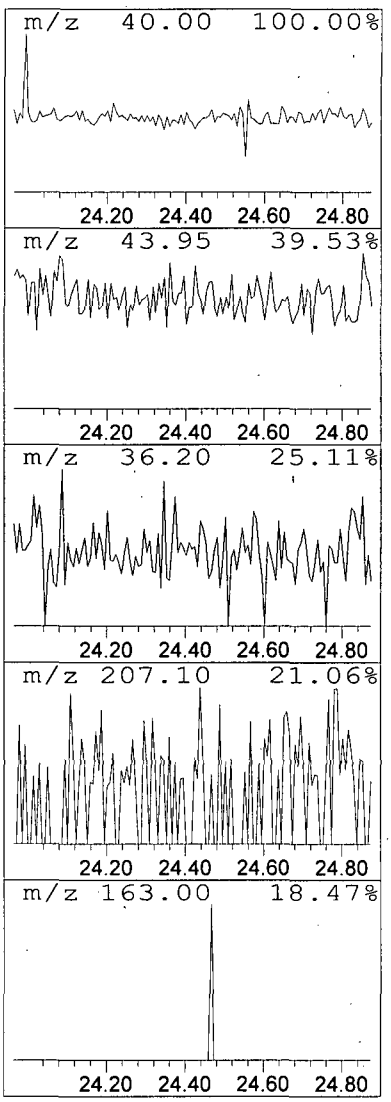
****

Peak Number 3 Propane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.46	1.39 ug/L	2077190	1,4-Dichlorobenzene-d4	16.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	3
2	Propane	44	C3H8	000074-98-6	3
3	Ethylene oxide	44	C2H4O	000075-21-8	2
4	Acetaldehyde	44	C2H4O	000075-07-0	2
5	Acetaldehyde	44	C2H4O	000075-07-0	2





0354

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

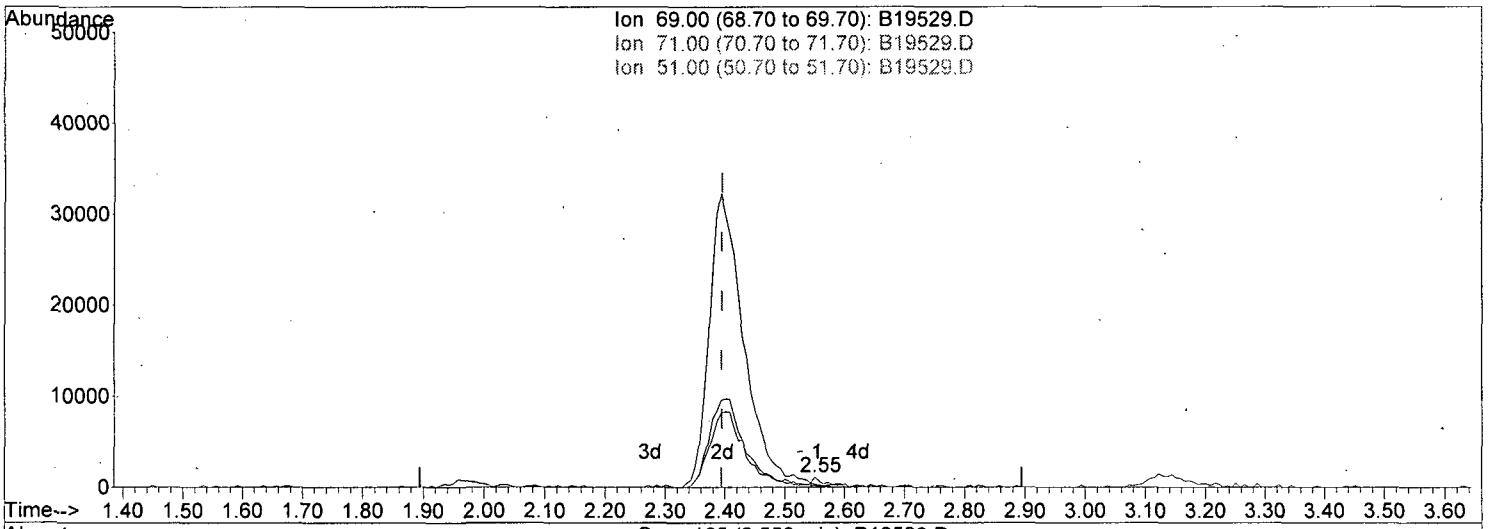
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

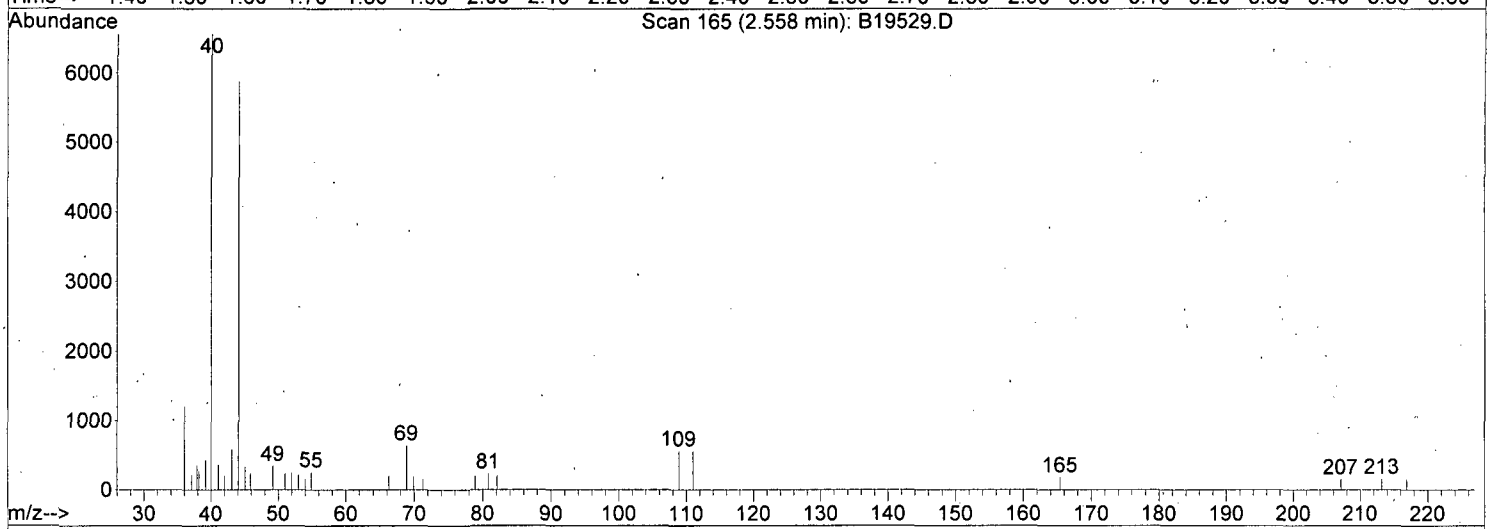
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	5.3	ug/L	2120340000	1	8.09	1998000000	5.0
Cyclotetrasiloxan...	14.99	2.2	ug/L	3246980	3	16.74	7496890	5.0
Propane	24.46	1.4	ug/L	2077190	3	16.74	7496890	5.0

Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 28 14:49:07 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration





TIC: B19529.D

(7) Chloroethane-d5 (S)

2.555min (+0.160) 0.07ug/L

response 17708

Ion	Exp%	Act%
69.00	100	100
71.00	32.80	34.53
51.00	34.30	28.33
0.00	0.00	0.00

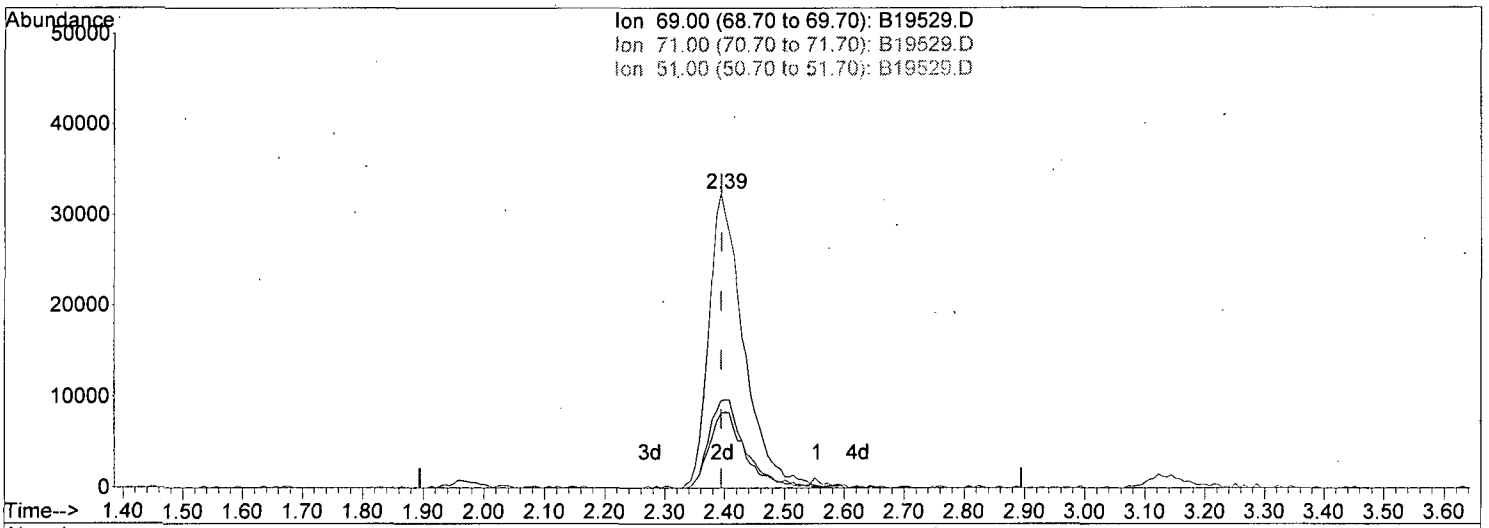
0356

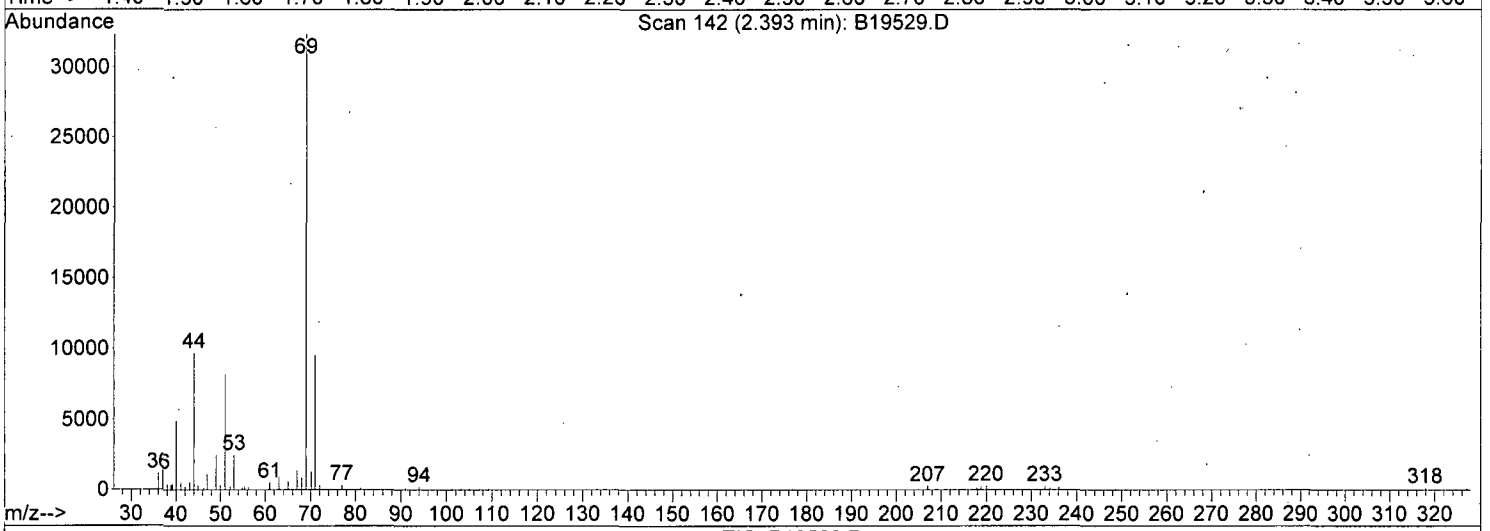
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19529.D
Acq On : 11/26/08 17:29 Operator: SB
Sample : F2XF7 2X Inst : B-5973
Misc : S-2066.12 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 28 14:49:07 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

11/28/08





TIC: B19529.D

(7) Chloroethane-d5 (S)

2.393min (-0.002) 4.98ug/L m

response 1325137

Ion	Exp%	Act%
69.00	100	100
71.00	32.80	0.46#
51.00	34.30	0.38#
0.00	0.00	0.00

0357

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.12DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17035

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	200	U
75-15-0	Carbon disulfide	20	U
79-20-9	Methyl acetate	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	36	D
78-93-3	2-Butanone	200	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.12DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17035

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	530	D
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	200	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	19	DJ
591-78-6	2-Hexanone	200	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
95-47-6	o-Xylene	20	U
179601-23-1	m,p-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
87-61-6	1,2,3-Trichlorobenzene	20	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF7DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.12DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17035

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 40.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	330	DJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

11/28/08

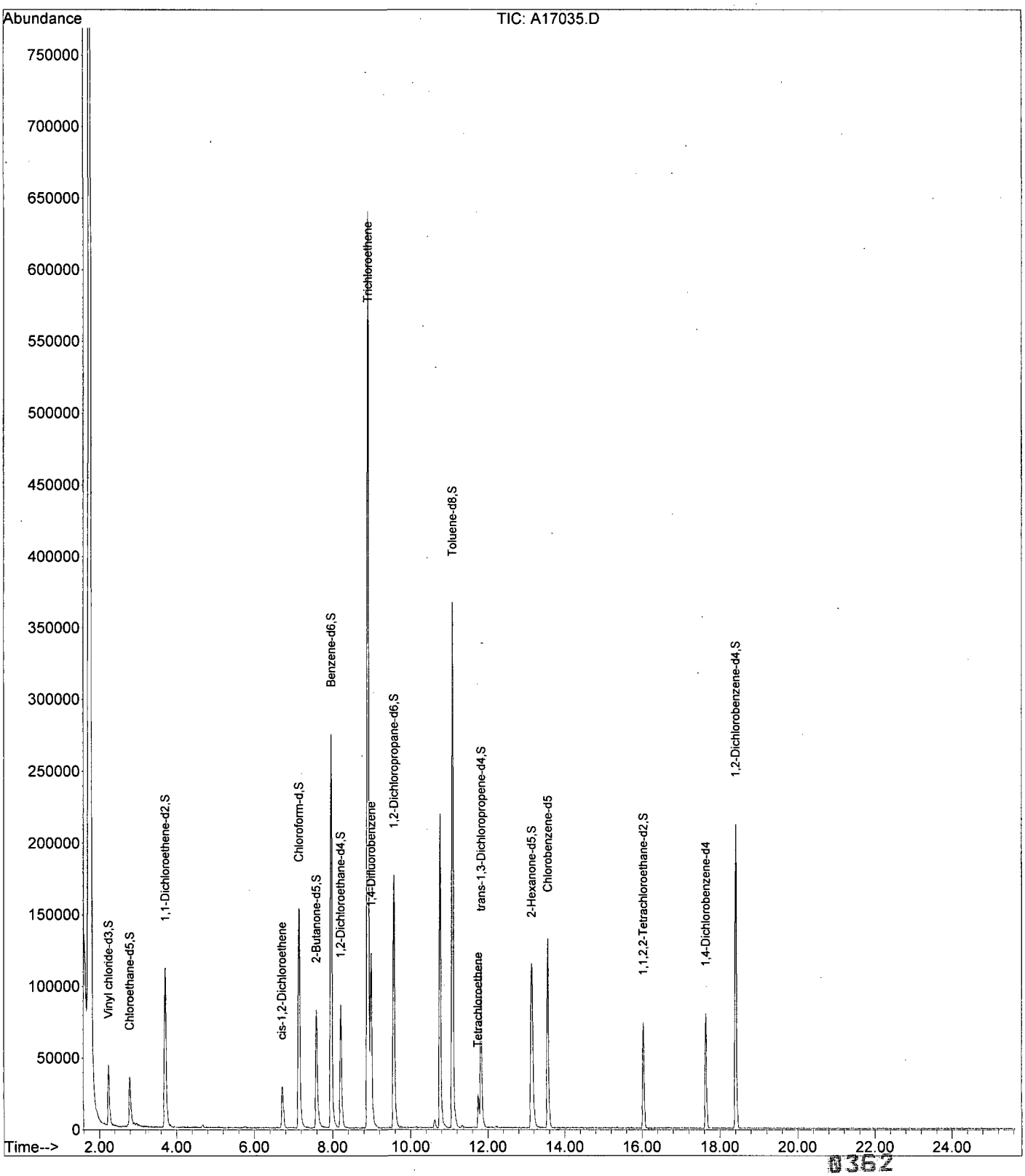
Quant Time: Nov 28 11:12:24 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1378464	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1121121	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	342531	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	736106	4.10	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 82.00%			
7) Chloroethane-d5	2.80	69	497403	4.68	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 93.60%			
10) 1,1-Dichloroethene-d2	3.72	63	1395551	3.15	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 63.00%			
21) 2-Butanone-d5	7.60	46	1623846	50.28	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 100.56%			
24) Chloroform-d	7.16	84	1945788	3.99	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 79.80%			
26) 1,2-Dichloroethane-d4	8.22	65	894661	4.59	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 91.80%			
32) Benzene-d6	7.97	84	3808556	4.61	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 92.20%			
36) 1,2-Dichloropropane-d6	9.58	67	1153871	4.70	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 94.00%			
41) Toluene-d8	11.10	98	3694127	4.88	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 97.60%			
43) trans-1,3-Dichloropropene-	11.83	79	926004	4.32	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 86.40%			
47) 2-Hexanone-d5	13.15	63	676195	54.71	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 109.42%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	564296	4.83	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 96.60%			
63) 1,2-Dichlorobenzene-d4	18.42	152	889883	5.72	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 114.40%			
Target Compounds						Qvalue
20) cis-1,2-Dichloroethene	6.72	96	198276	0.89	ug/L	98
34) Trichloroethene	8.91	95	3176020	13.33	ug/L	99
46) Tetrachloroethene	11.76	164	84221	0.47	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDCHEM\1\DATA\A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

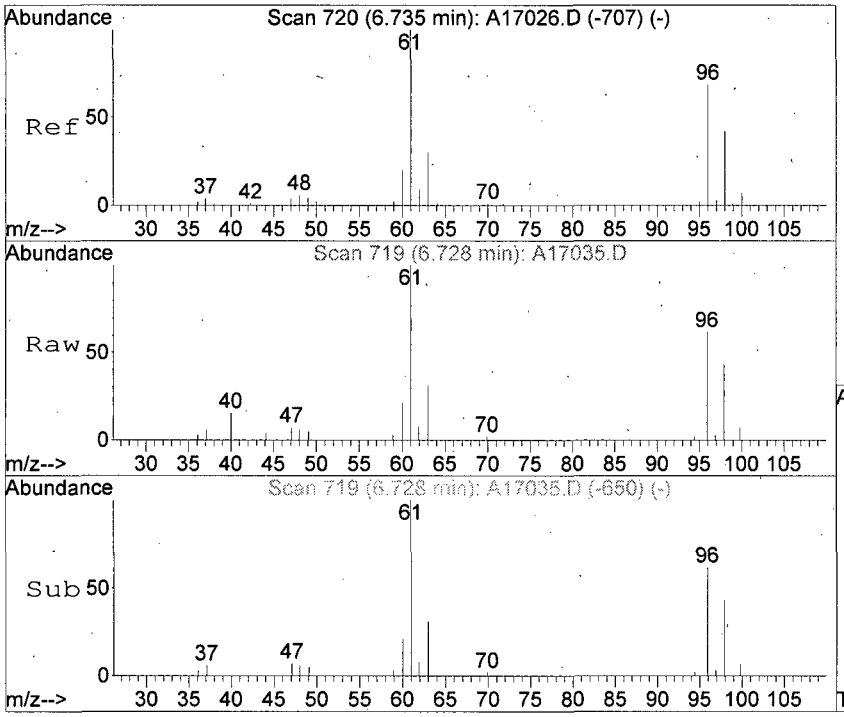
Quant Time: Nov 28 11:12:24 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



0362

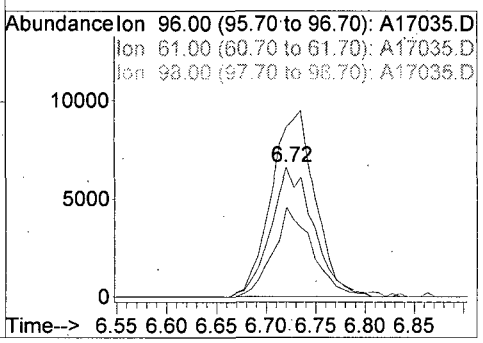
Data File : C:\MSDCHEM\1\DATA\A17035.D
Acq On : 11/26/08 23:01
Sample : F2XF7DL 40X
Misc : S-2066.12DL 25ML
MS Integration Params: LSCINT.E

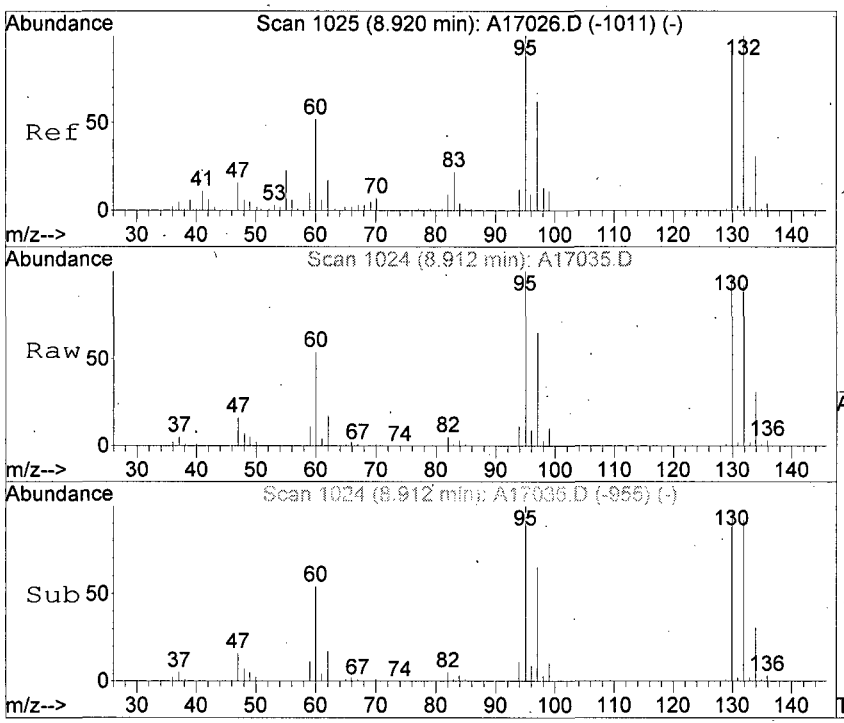
Vial: 11
Operator: SB
Inst : A-5973
Multiplr: 1.00



#20
cis-1,2-Dichloroethene
Concen: 0.89 ug/L
RT: 6.72 min Scan# 719
Delta R.T. -0.01 min
Integration Range:
Scan=706 to 731
R.T.= 6.63 to 6.81 (min)
Tgt Ion: 96 Resp: 198276

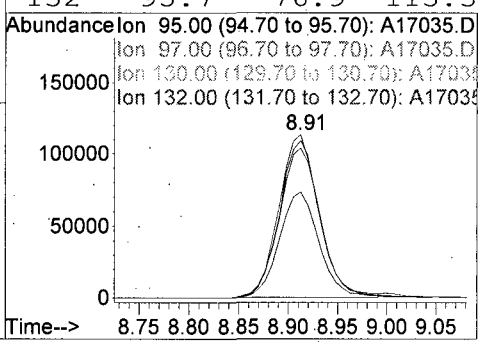
Ion	Ratio	Lower	Upper
96	100		
61	148.6	116.9	175.3
98	63.2	48.5	72.7





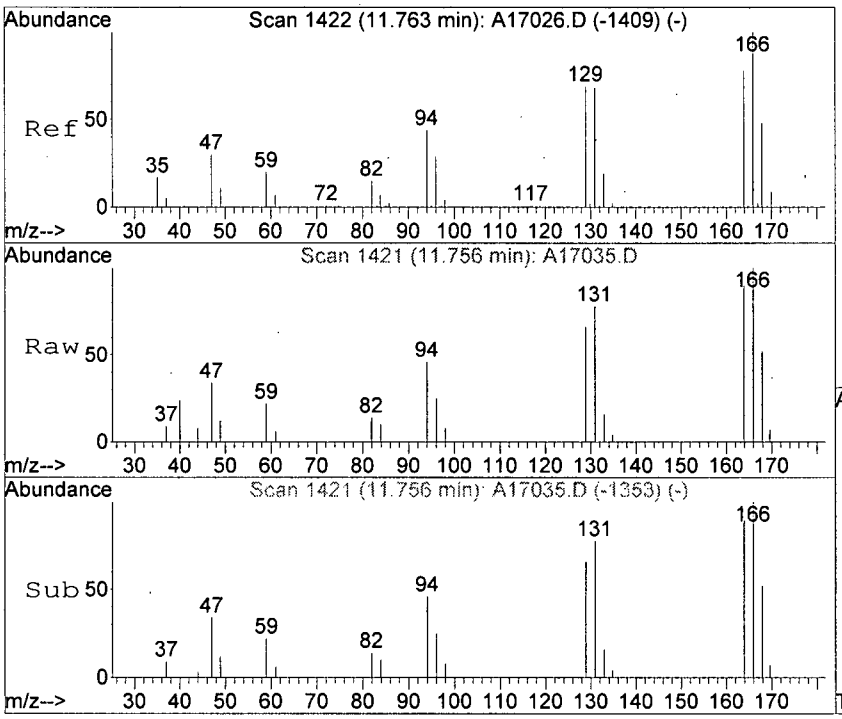
#34
Trichloroethene
Concen: 13.33 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.00 min
Integration Range:
Scan=1010 to 1035
R.T.= 8.81 to 8.99 (min)
Tgt Ion: 95 Resp: 3176020

Ion	Ratio	Lower	Upper
95	100		
97	65.4	53.2	79.8
130	97.9	79.5	119.3
132	95.7	76.9	115.3



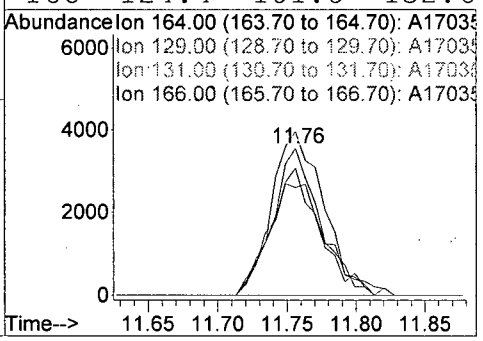
Data File : C:\MSDCHEM\1\DATA\A17035.D
Acq On : 11/26/08 23:01
Sample : F2XF7DL 40X
Misc : S-2066.12DL 25ML
MS Integration Params: LSCINT.E

Vial: 11
Operator: SB
Inst : A-5973
Multiplr: 1.00



#46
Tetrachloroethene
Concen: 0.47 ug/L
RT: 11.76 min Scan# 1421
Delta R.T. -0.01 min
Integration Range:
Scan=1412 to 1429
R.T.= 11.69 to 11.81 (min)
Tgt Ion:164 Resp: 84221

Ion	Ratio	Lower	Upper
164	100		
129	88.7	73.6	110.4
131	91.7	71.7	107.5
166	124.4	101.8	152.6



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.122	68	76	83	BV 4	699	9724	0.05%	0.009%
2	2.186	83	85	87	VV 2	641	5205	0.03%	0.005%
3	2.244	87	93	105	PV	41519	1179027	6.47%	1.061%
4	2.344	105	107	109	VV	1262	14552	0.08%	0.013%
5	2.365	109	110	115	VV	1011	20528	0.11%	0.018%
6	2.415	115	117	124	VV 3	964	21406	0.12%	0.019%
7	2.480	124	126	131	VV 2	378	5648	0.03%	0.005%
8	2.530	131	133	140	PV 2	798	10275	0.06%	0.009%
9	2.609	140	144	154	VV 3	828	27451	0.15%	0.025%
10	2.695	154	156	158	VV 2	887	8671	0.05%	0.008%
11	2.802	158	171	183	VV	35142	1194280	6.56%	1.075%
12	2.910	183	186	190	VV 3	3227	69366	0.38%	0.062%
13	2.960	190	193	199	VV 4	3073	90030	0.49%	0.081%
14	3.010	199	200	202	VV 2	2114	27197	0.15%	0.024%
15	3.031	202	203	205	VV	1924	20442	0.11%	0.018%
16	3.074	205	209	213	VV 2	1295	34911	0.19%	0.031%
17	3.117	213	215	218	VV 2	1221	17847	0.10%	0.016%
18	3.153	218	220	223	VV	1042	14112	0.08%	0.013%
19	3.182	223	224	232	VV 2	1057	28723	0.16%	0.026%
20	3.246	232	233	246	VV 2	1037	36159	0.20%	0.033%
21	3.347	246	247	251	VV 2	672	10466	0.06%	0.009%
22	3.382	251	252	258	VV 2	646	13939	0.08%	0.013%
23	3.447	258	261	264	PV 2	979	12323	0.07%	0.011%
24	3.490	264	267	274	VV 2	1019	21399	0.12%	0.019%
25	3.562	274	277	279	VV 3	888	11808	0.06%	0.011%
26	3.590	279	281	282	VV	461	4296	0.02%	0.004%
27	3.612	282	284	286	VV	677	6255	0.03%	0.006%
28	3.719	286	299	315	VV	111481	3758893	20.64%	3.383%
29	3.848	315	317	323	VV 3	2213	43054	0.24%	0.039%
30	3.905	323	325	328	VV 2	877	13843	0.08%	0.012%
31	3.948	328	331	337	VV 3	996	24804	0.14%	0.022%
32	4.006	337	339	342	VV	434	9284	0.05%	0.008%
33	4.041	342	344	346	VV	558	5070	0.03%	0.005%
34	4.099	346	352	355	VV 2	748	15035	0.08%	0.014%
35	4.142	355	358	364	VV 2	760	19002	0.10%	0.017%
36	4.213	364	368	372	VV 2	634	13902	0.08%	0.013%
37	4.256	372	374	375	VV	357	3195	0.02%	0.003%
38	4.278	375	377	379	VV	1098	9611	0.05%	0.009%
39	4.314	379	382	385	VV 2	653	8329	0.05%	0.007%
40	4.349	385	387	389	VV	589	5331	0.03%	0.005%
41	4.385	389	392	396	VV	657	11587	0.06%	0.010%
42	4.435	396	399	402	VV	613	12216	0.07%	0.011%
43	4.471	402	404	406	VV 2	838	8548	0.05%	0.008%
44	4.493	406	407	412	VV 2	833	15859	0.09%	0.014%

0365

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.543	412	414	417	VV 2	483	7691	0.04%	0.007%
46	4.579	417	419	424	VV 2	557	11855	0.07%	0.011%
47	4.672	424	432	439	VV 4	2311	72482	0.40%	0.065%
48	4.772	439	446	449	VV 2	826	18436	0.10%	0.017%
49	4.822	449	453	456	VV 2	575	10494	0.06%	0.009%
50	4.858	456	458	465	VV 2	583	19633	0.11%	0.018%
51	4.922	465	467	468	VV	661	6247	0.03%	0.006%
52	4.958	468	472	473	VV	549	8012	0.04%	0.007%
53	4.980	473	475	477	VV	594	8539	0.05%	0.008%
54	5.016	477	480	486	VV	620	16303	0.09%	0.015%
55	5.094	486	491	494	VV 2	1121	21238	0.12%	0.019%
56	5.137	494	497	499	VV 2	715	9748	0.05%	0.009%
57	5.159	499	500	508	VV 2	726	17425	0.10%	0.016%
58	5.245	508	512	518	VV 2	520	9496	0.05%	0.009%
59	5.302	518	520	523	VV	409	8711	0.05%	0.008%
60	5.352	523	527	536	VV	882	21474	0.12%	0.019%
61	5.424	536	537	541	VV	502	7785	0.04%	0.007%
62	5.488	541	546	550	VV 2	529	16736	0.09%	0.015%
63	5.531	550	552	553	VV 2	766	8114	0.04%	0.007%
64	5.553	553	555	557	VV 2	642	7593	0.04%	0.007%
65	5.603	557	562	564	VV 2	777	11049	0.06%	0.010%
66	5.667	564	571	575	VV 2	697	17337	0.10%	0.016%
67	5.725	575	579	580	VV 2	682	13059	0.07%	0.012%
68	5.746	580	582	584	VV 2	1389	16739	0.09%	0.015%
69	5.775	584	586	592	VV 2	1251	31062	0.17%	0.028%
70	5.832	592	594	599	VV 2	760	13454	0.07%	0.012%
71	5.889	599	602	603	VV	478	6359	0.03%	0.006%
72	5.918	603	606	608	VV 2	639	10801	0.06%	0.010%
73	5.947	608	610	614	VV 2	439	8846	0.05%	0.008%
74	6.011	614	619	621	VV 2	778	14390	0.08%	0.013%
75	6.040	621	623	627	VV 2	495	8758	0.05%	0.008%
76	6.097	627	631	633	VV 2	877	14819	0.08%	0.013%
77	6.126	633	635	639	VV	830	14116	0.08%	0.013%
78	6.162	639	640	643	VV 2	538	6933	0.04%	0.006%
79	6.233	643	650	655	VV	821	26076	0.14%	0.023%
80	6.276	655	656	658	VV	642	6415	0.04%	0.006%
81	6.305	658	660	665	VV 2	767	16033	0.09%	0.014%
82	6.355	665	667	672	VV	854	16568	0.09%	0.015%
83	6.420	672	676	681	VV 2	654	19310	0.11%	0.017%
84	6.470	681	683	685	VV 2	583	6739	0.04%	0.006%
85	6.498	685	687	691	VV	812	14843	0.08%	0.013%
86	6.591	691	700	702	VV 2	822	27006	0.15%	0.024%
87	6.620	702	704	707	VV	792	13125	0.07%	0.012%
88	6.656	707	709	710	VV	692	7737	0.04%	0.007%
89	6.728	710	719	749	VV 2	29266	1019825	5.60%	0.918%
90	6.964	749	752	754	VV 2	733	14136	0.08%	0.013%
91	7.000	754	757	761	VV 2	835	20614	0.11%	0.019%

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LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.043	761	763	765	VV 2	720	10845	0.06%	0.010%
93	7.157	765	779	813	VV	154150	5201094	28.56%	4.681%
94	7.415	813	815	818	VV	932	12474	0.07%	0.011%
95	7.465	818	822	824	VV 2	855	15952	0.09%	0.014%
96	7.508	824	828	831	VV 2	985	25277	0.14%	0.023%
97	7.601	831	841	857	VV	82449	2719031	14.93%	2.447%
98	7.730	857	859	863	VV 3	2240	47534	0.26%	0.043%
99	7.773	863	865	867	VV 2	1774	21142	0.12%	0.019%
100	7.802	867	869	875	VV 3	1659	44813	0.25%	0.040%
101	7.859	875	877	879	VV	1263	17403	0.10%	0.016%
102	7.881	879	880	882	VV	1180	13349	0.07%	0.012%
103	7.974	882	893	917	VV	275961	8501402	46.68%	7.652%
104	8.217	917	927	943	VV	84958	2644982	14.52%	2.381%
105	8.346	943	945	956	VV 2	1732	61604	0.34%	0.055%
106	8.432	956	957	961	VV 2	1050	19037	0.10%	0.017%
107	8.482	961	964	966	VV 2	978	18404	0.10%	0.017%
108	8.518	966	969	973	VV 2	1016	21684	0.12%	0.020%
109	8.583	973	978	984	VV	1317	44227	0.24%	0.040%
110	8.640	984	986	988	VV 2	1153	16914	0.09%	0.015%
111	8.669	988	990	996	VV 2	1025	28334	0.16%	0.026%
112	8.755	996	1002	1005	VV	1279	36423	0.20%	0.033%
113	8.791	1005	1007	1010	VV 2	1349	20667	0.11%	0.019%
114	8.912	1010	1024	1031	VV	642148	18210894	100.00%	16.391%
115	8.998	1031	1036	1051	VV	122741	3820797	20.98%	3.439%
116	9.120	1051	1053	1062	VV 6	2949	91621	0.50%	0.082%
117	9.199	1062	1064	1069	VV 2	1312	29142	0.16%	0.026%
118	9.249	1069	1071	1074	VV 2	1194	21346	0.12%	0.019%
119	9.285	1074	1076	1085	VV 2	1281	52215	0.29%	0.047%
120	9.371	1085	1088	1092	VV	1007	26963	0.15%	0.024%
121	9.428	1092	1096	1099	VV	1278	36386	0.20%	0.033%
122	9.457	1099	1100	1102	VV	1387	16021	0.09%	0.014%
123	9.578	1102	1117	1132	VV	175172	5417957	29.75%	4.877%
124	9.693	1132	1133	1137	VV 2	2373	38108	0.21%	0.034%
125	9.750	1137	1141	1146	VV 2	2119	50297	0.28%	0.045%
126	9.793	1146	1147	1149	VV 2	1424	16602	0.09%	0.015%
127	9.822	1149	1151	1153	VV	1336	21102	0.12%	0.019%
128	9.843	1153	1154	1163	VV 2	1514	48154	0.26%	0.043%
129	9.929	1163	1166	1171	VV	1502	43120	0.24%	0.039%
130	9.987	1171	1174	1176	VV 2	1359	23002	0.13%	0.021%
131	10.023	1176	1179	1183	VV	1396	32161	0.18%	0.029%
132	10.058	1183	1184	1186	VV	1275	17426	0.10%	0.016%
133	10.087	1186	1188	1189	VV 2	1283	15177	0.08%	0.014%
134	10.109	1189	1191	1193	VV	1392	18736	0.10%	0.017%
135	10.144	1193	1196	1198	VV 2	2006	34372	0.19%	0.031%
136	10.166	1198	1199	1203	VV	1693	25731	0.14%	0.023%
137	10.209	1203	1205	1209	VV 2	1327	30958	0.17%	0.028%
138	10.259	1209	1212	1218	VV 2	1434	50410	0.28%	0.045%
139	10.309	1218	1219	1221	VV	1248	14253	0.08%	0.013%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.345	1221	1224	1226	VV 2	1261	20993	0.12%	0.019%
141	10.374	1226	1228	1230	VV	1402	20489	0.11%	0.018%
142	10.417	1230	1234	1236	VV 2	1328	29151	0.16%	0.026%
143	10.438	1236	1237	1238	VV	1127	12318	0.07%	0.011%
144	10.474	1238	1242	1252	VV 2	1488	69071	0.38%	0.062%
145	10.567	1252	1255	1257	VV 2	1476	26813	0.15%	0.024%
146	10.631	1257	1264	1272	VV 5	6641	243307	1.34%	0.219%
147	10.775	1272	1284	1306	VV	220082	6223165	34.17%	5.601%
148	10.947	1306	1308	1313	VV 3	1577	41723	0.23%	0.038%
149	10.990	1313	1314	1320	VV 2	1424	37029	0.20%	0.033%
150	11.097	1320	1329	1355	VV	368523	10293653	56.52%	9.265%
151	11.333	1355	1362	1367	VV 3	3138	107799	0.59%	0.097%
152	11.384	1367	1369	1376	VV 3	1774	59811	0.33%	0.054%
153	11.448	1376	1378	1382	VV 2	1725	35992	0.20%	0.032%
154	11.491	1382	1384	1388	VV	1708	35695	0.20%	0.032%
155	11.527	1388	1389	1394	VV 2	1735	36684	0.20%	0.033%
156	11.598	1394	1399	1400	VV 2	1827	43062	0.24%	0.039%
157	11.620	1400	1402	1405	VV 2	1779	32316	0.18%	0.029%
158	11.656	1405	1407	1411	VV 2	1827	43305	0.24%	0.039%
159	11.756	1411	1421	1426	VV 3	24629	678820	3.73%	0.611%
160	11.835	1426	1432	1446	VV	120233	3326249	18.27%	2.994%
161	11.942	1446	1447	1453	VV 2	2309	63149	0.35%	0.057%
162	12.014	1453	1457	1461	VV	1903	56342	0.31%	0.051%
163	12.100	1461	1469	1476	VV 2	2252	113074	0.62%	0.102%
164	12.222	1476	1486	1488	VV 3	2894	103854	0.57%	0.093%
165	12.243	1488	1489	1494	VV 2	2506	45749	0.25%	0.041%
166	12.293	1494	1496	1500	VV 2	1718	44196	0.24%	0.040%
167	12.351	1500	1504	1509	VV 2	2002	61761	0.34%	0.056%
168	12.415	1509	1513	1526	VV 2	1922	115158	0.63%	0.104%
169	12.515	1526	1527	1529	VV	1864	25397	0.14%	0.023%
170	12.544	1529	1531	1533	VV 2	1919	26238	0.14%	0.024%
171	12.594	1533	1538	1540	VV	1884	52407	0.29%	0.047%
172	12.673	1540	1549	1551	VV 2	1918	75146	0.41%	0.068%
173	12.723	1551	1556	1562	VV	1999	71491	0.39%	0.064%
174	12.780	1562	1564	1566	VV	1707	25641	0.14%	0.023%
175	12.816	1566	1569	1572	VV 2	2047	42449	0.23%	0.038%
176	12.852	1572	1574	1575	VV	1663	19318	0.11%	0.017%
177	12.888	1575	1579	1583	VV	1844	48320	0.27%	0.043%
178	12.924	1583	1584	1587	VV	1860	28246	0.16%	0.025%
179	12.967	1587	1590	1593	VV 2	1689	40220	0.22%	0.036%
180	13.024	1593	1598	1605	VV 3	1895	84936	0.47%	0.076%
181	13.153	1605	1616	1636	VV 2	115097	4947328	27.17%	4.453%
182	13.310	1636	1638	1640	VV 2	2739	41245	0.23%	0.037%
183	13.339	1640	1642	1649	VV 3	2213	71934	0.40%	0.065%
184	13.404	1649	1651	1653	VV 2	2155	36557	0.20%	0.033%
185	13.425	1653	1654	1660	VV 2	2138	56600	0.31%	0.051%
186	13.482	1660	1662	1665	VV	1880	31264	0.17%	0.028%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.568	1665	1674	1690	VV		133832	3775542	20.73%	3.398%
188	13.690	1690	1691	1698	VV	2	2084	58015	0.32%	0.052%
189	13.747	1698	1699	1701	VV		1924	27417	0.15%	0.025%
190	13.776	1701	1703	1705	VV	2	2005	29546	0.16%	0.027%
191	13.812	1705	1708	1712	VV	2	2020	56860	0.31%	0.051%
192	13.855	1712	1714	1716	VV	2	1883	31383	0.17%	0.028%
193	13.883	1716	1718	1721	VV	2	1778	36875	0.20%	0.033%
194	13.934	1721	1725	1726	VV	2	2162	36248	0.20%	0.033%
195	13.948	1726	1727	1730	VV	2	2040	35016	0.19%	0.032%
196	13.984	1730	1732	1735	VV		1939	34580	0.19%	0.031%
197	14.027	1735	1738	1740	VV	2	1815	37241	0.20%	0.034%
198	14.063	1740	1743	1752	VV	2	2181	88805	0.49%	0.080%
199	14.148	1752	1755	1760	VV		1791	58720	0.32%	0.053%
200	14.206	1760	1763	1765	VV		2288	43449	0.24%	0.039%
201	14.234	1765	1767	1776	VV	2	2003	89055	0.49%	0.080%
202	14.313	1776	1778	1782	VV	2	2020	42909	0.24%	0.039%
203	14.356	1782	1784	1788	VV	2	1991	50789	0.28%	0.046%
204	14.406	1788	1791	1792	VV		1951	33896	0.19%	0.031%
205	14.435	1792	1795	1802	VV	3	2093	81758	0.45%	0.074%
206	14.514	1802	1806	1807	VV	2	1912	39745	0.22%	0.036%
207	14.535	1807	1809	1813	VV		2111	48327	0.27%	0.043%
208	14.600	1813	1818	1823	VV	2	1978	69414	0.38%	0.062%
209	14.650	1823	1825	1831	VV	2	2326	63915	0.35%	0.058%
210	14.707	1831	1833	1842	VV		2527	93759	0.51%	0.084%
211	14.800	1842	1846	1854	VV	2	2234	102678	0.56%	0.092%
212	14.872	1854	1856	1857	VV		1990	26356	0.14%	0.024%
213	14.893	1857	1859	1865	VV	2	2093	63378	0.35%	0.057%
214	14.958	1865	1868	1871	VV		2151	45428	0.25%	0.041%
215	14.994	1871	1873	1881	VV	2	2341	80273	0.44%	0.072%
216	15.065	1881	1883	1887	VV	2	2379	49927	0.27%	0.045%
217	15.158	1887	1896	1898	VV	2	2076	95459	0.52%	0.086%
218	15.194	1898	1901	1903	VV	2	1904	34660	0.19%	0.031%
219	15.223	1903	1905	1906	VV		2065	32407	0.18%	0.029%
220	15.259	1906	1910	1912	VV	2	2137	49774	0.27%	0.045%
221	15.287	1912	1914	1918	VV		2188	44791	0.25%	0.040%
222	15.323	1918	1919	1921	VV		2190	29367	0.16%	0.026%
223	15.352	1921	1923	1926	VV		2794	51654	0.28%	0.046%
224	15.388	1926	1928	1929	VV		2078	25447	0.14%	0.023%
225	15.431	1929	1934	1939	VV		2033	77898	0.43%	0.070%
226	15.509	1939	1945	1949	VV		2177	79897	0.44%	0.072%
227	15.560	1949	1952	1956	VV		2098	58935	0.32%	0.053%
228	15.624	1956	1961	1963	VV	2	2105	57391	0.32%	0.052%
229	15.653	1963	1965	1967	VV		2190	39281	0.22%	0.035%
230	15.689	1967	1970	1971	VV		2223	37063	0.20%	0.033%
231	15.724	1971	1975	1979	VV	2	2520	65180	0.36%	0.059%
232	15.774	1979	1982	1996	VV	2	2144	146440	0.80%	0.132%
233	15.889	1996	1998	2003	VV	2	2289	58694	0.32%	0.053%
234	15.946	2003	2006	2008	VV	2	2223	43174	0.24%	0.039%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.968	2008	2009	2011	VV	1997	25065	0.14%	0.023%
236	16.047	2011	2020	2029	VV	75020	2137035	11.73%	1.924%
237	16.125	2029	2031	2034	VV 2	2387	49989	0.27%	0.045%
238	16.161	2034	2036	2037	VV	2049	24434	0.13%	0.022%
239	16.190	2037	2040	2042	VV	2122	36729	0.20%	0.033%
240	16.211	2042	2043	2045	VV 2	2122	30457	0.17%	0.027%
241	16.254	2045	2049	2053	VV 2	2244	67719	0.37%	0.061%
242	16.326	2053	2059	2062	VV 2	2503	78474	0.43%	0.071%
243	16.390	2062	2068	2071	VV 2	2219	80478	0.44%	0.072%
244	16.433	2071	2074	2076	VV	2510	47700	0.26%	0.043%
245	16.455	2076	2077	2079	VV	2409	30064	0.17%	0.027%
246	16.484	2079	2081	2086	VV	2346	66695	0.37%	0.060%
247	16.534	2086	2088	2090	VV	2235	38337	0.21%	0.035%
248	16.570	2090	2093	2100	VV 2	2396	90446	0.50%	0.081%
249	16.634	2100	2102	2103	VV	2404	31177	0.17%	0.028%
250	16.677	2103	2108	2110	VV 2	2572	64267	0.35%	0.058%
251	16.699	2110	2111	2113	VV	2444	38360	0.21%	0.035%
252	16.734	2113	2116	2120	VV	2472	65359	0.36%	0.059%
253	16.777	2120	2122	2126	VV	2303	58535	0.32%	0.053%
254	16.842	2126	2131	2134	VV 2	2436	73700	0.40%	0.066%
255	16.878	2134	2136	2139	VV 2	2448	45613	0.25%	0.041%
256	16.913	2139	2141	2148	VV 2	2324	89997	0.49%	0.081%
257	17.007	2148	2154	2164	VV 2	2438	147036	0.81%	0.132%
258	17.092	2164	2166	2170	VV	2607	61993	0.34%	0.056%
259	17.135	2170	2172	2173	VV 2	2360	33385	0.18%	0.030%
260	17.171	2173	2177	2178	VV 2	2263	46380	0.25%	0.042%
261	17.207	2178	2182	2185	VV 2	2417	66919	0.37%	0.060%
262	17.250	2185	2188	2190	VV	2625	54146	0.30%	0.049%
263	17.293	2190	2194	2200	VV 2	2425	96284	0.53%	0.087%
264	17.358	2200	2203	2205	VV 2	2299	49539	0.27%	0.045%
265	17.408	2205	2210	2214	VV 2	2421	84500	0.46%	0.076%
266	17.451	2214	2216	2218	VV 2	2257	35195	0.19%	0.032%
267	17.494	2218	2222	2229	VV 2	2575	108515	0.60%	0.098%
268	17.558	2229	2231	2232	VV	2368	29518	0.16%	0.027%
269	17.651	2232	2244	2255	VV	82272	2282982	12.54%	2.055%
270	17.744	2255	2257	2261	VV 2	2573	63176	0.35%	0.057%
271	17.794	2261	2264	2266	VV 2	2633	50200	0.28%	0.045%
272	17.823	2266	2268	2271	VV	2778	49150	0.27%	0.044%
273	17.859	2271	2273	2275	VV 2	2553	34233	0.19%	0.031%
274	17.880	2275	2276	2278	VV	2563	37414	0.21%	0.034%
275	17.916	2278	2281	2289	VV 2	2703	116057	0.64%	0.104%
276	17.988	2289	2291	2293	VV	2370	33850	0.19%	0.030%
277	18.038	2293	2298	2300	VV	2773	81171	0.45%	0.073%
278	18.067	2300	2302	2309	VV 2	2543	91267	0.50%	0.082%
279	18.131	2309	2311	2315	VV	2679	63653	0.35%	0.057%
280	18.188	2315	2319	2321	VV	2720	57620	0.32%	0.052%
281	18.217	2321	2323	2326	VV 2	2550	54455	0.30%	0.049%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.253	2326	2328	2333	VV 2	2732	70913	0.39%	0.064%
283	18.296	2333	2334	2336	VV	2426	28398	0.16%	0.026%
284	18.317	2336	2337	2339	VV	2644	38395	0.21%	0.035%
285	18.418	2339	2351	2364	VV	214508	5776838	31.72%	5.200%
286	18.518	2364	2365	2374	VV 2	2728	113540	0.62%	0.102%
287	18.618	2374	2379	2381	VV	2853	73054	0.40%	0.066%
288	18.640	2381	2382	2389	VV	2960	89376	0.49%	0.080%
289	18.704	2389	2391	2392	VV	2758	37083	0.20%	0.033%
290	18.740	2392	2396	2398	VV	2917	73216	0.40%	0.066%
291	18.769	2398	2400	2413	VV 2	2695	154787	0.85%	0.139%
292	18.883	2413	2416	2421	VV 2	2779	87017	0.48%	0.078%
293	18.926	2421	2422	2432	VV 2	2774	126686	0.70%	0.114%
294	19.012	2432	2434	2436	VV 2	2807	37197	0.20%	0.033%
295	19.041	2436	2438	2441	VV 2	2872	64603	0.35%	0.058%
296	19.120	2441	2449	2453	VV	2837	132458	0.73%	0.119%
297	19.206	2453	2461	2464	VV 2	2906	120821	0.66%	0.109%
298	19.249	2464	2467	2473	VV 2	2937	107449	0.59%	0.097%
299	19.306	2473	2475	2477	VV 2	2999	42394	0.23%	0.038%
300	19.327	2477	2478	2480	VV 2	2745	42334	0.23%	0.038%
301	19.363	2480	2483	2484	VV 2	2736	45053	0.25%	0.041%
302	19.385	2484	2486	2492	VV 2	2853	85701	0.47%	0.077%
303	19.442	2492	2494	2498	VV 2	2877	75483	0.41%	0.068%
304	19.492	2498	2501	2514	VV 2	2965	175561	0.96%	0.158%
305	19.600	2514	2516	2519	VV 2	2709	59537	0.33%	0.054%
306	19.650	2519	2523	2526	VV 2	2985	77256	0.42%	0.070%
307	19.678	2526	2527	2529	VV	2645	36327	0.20%	0.033%
308	19.728	2529	2534	2537	VV 2	2919	96125	0.53%	0.087%
309	19.764	2537	2539	2541	VV 2	2827	39479	0.22%	0.036%
310	19.793	2541	2543	2550	VV 2	2661	99952	0.55%	0.090%
311	19.857	2550	2552	2553	VV	2754	39062	0.21%	0.035%
312	19.879	2553	2555	2559	VV	2854	68275	0.37%	0.061%
313	19.929	2559	2562	2563	VV	3034	51188	0.28%	0.046%
314	19.972	2563	2568	2571	VV	2783	90950	0.50%	0.082%
315	20.015	2571	2574	2578	VV 2	3061	76813	0.42%	0.069%
316	20.058	2578	2580	2581	VV 2	2795	40216	0.22%	0.036%
317	20.087	2581	2584	2588	VV 2	2939	74790	0.41%	0.067%
318	20.137	2588	2591	2593	VV 2	3002	69381	0.38%	0.062%
319	20.165	2593	2595	2599	VV 2	3004	74683	0.41%	0.067%
320	20.208	2599	2601	2606	VV 2	2787	74101	0.41%	0.067%
321	20.259	2606	2608	2610	VV	2892	48952	0.27%	0.044%
322	20.280	2610	2611	2613	VV	2896	34543	0.19%	0.031%
323	20.309	2613	2615	2621	VV 2	2951	100745	0.55%	0.091%
324	20.373	2621	2624	2628	VV	2951	82441	0.45%	0.074%
325	20.416	2628	2630	2632	VV 2	3063	41126	0.23%	0.037%
326	20.438	2632	2633	2635	VV	2963	43750	0.24%	0.039%
327	20.466	2635	2637	2641	VV 2	2991	64876	0.36%	0.058%
328	20.502	2641	2642	2644	VV	2936	42403	0.23%	0.038%
329	20.531	2644	2646	2654	VV 2	3141	120693	0.66%	0.109%

0371

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.602	2654	2656	2660	VV 2	3021	72310	0.40%	0.065%
331	20.653	2660	2663	2664	VV	2928	53668	0.29%	0.048%
332	20.674	2664	2666	2671	VV 2	2993	88169	0.48%	0.079%
333	20.738	2671	2675	2680	VV 2	3057	105856	0.58%	0.095%
334	20.789	2680	2682	2687	VV 2	3178	91866	0.50%	0.083%
335	20.839	2687	2689	2691	VV 2	2994	40162	0.22%	0.036%
336	20.867	2691	2693	2699	VV 2	3030	97362	0.53%	0.088%
337	20.946	2699	2704	2707	VV 2	3126	99319	0.55%	0.089%
338	21.003	2707	2712	2714	VV	3025	83282	0.46%	0.075%
339	21.032	2714	2716	2719	VV	3363	70265	0.39%	0.063%
340	21.075	2719	2722	2727	VV 2	3156	104042	0.57%	0.094%
341	21.132	2727	2730	2735	VV 2	3021	92118	0.51%	0.083%
342	21.183	2735	2737	2741	VV	3083	70934	0.39%	0.064%
343	21.226	2741	2743	2746	VV	3078	70367	0.39%	0.063%
344	21.261	2746	2748	2751	VV	3042	53070	0.29%	0.048%
345	21.297	2751	2753	2754	VV	2897	47152	0.26%	0.042%
346	21.319	2754	2756	2758	VV	3148	45718	0.25%	0.041%
347	21.383	2758	2765	2766	VV	3414	109192	0.60%	0.098%
348	21.433	2766	2772	2776	VV 2	3275	126861	0.70%	0.114%
349	21.476	2776	2778	2781	VV	3182	61379	0.34%	0.055%
350	21.534	2781	2786	2788	VV 2	3109	89878	0.49%	0.081%
351	21.562	2788	2790	2792	VV	3215	53709	0.29%	0.048%
352	21.591	2792	2794	2798	VV 2	3147	72181	0.40%	0.065%
353	21.634	2798	2800	2804	VV 2	3207	75383	0.41%	0.068%
354	21.670	2804	2805	2807	VV 2	3183	47827	0.26%	0.043%
355	21.698	2807	2809	2810	VV 2	3020	37852	0.21%	0.034%
356	21.720	2810	2812	2814	VV	3084	46511	0.26%	0.042%
357	21.763	2814	2818	2820	VV 2	3038	75035	0.41%	0.068%
358	21.834	2820	2828	2833	VV	3421	166903	0.92%	0.150%
359	21.885	2833	2835	2837	VV 2	3233	58597	0.32%	0.053%
360	21.928	2837	2841	2851	VV 2	3443	182672	1.00%	0.164%
361	22.021	2851	2854	2859	VV 2	3181	101226	0.56%	0.091%
362	22.071	2859	2861	2863	VV 2	3468	57936	0.32%	0.052%
363	22.107	2863	2866	2876	VV 2	3425	176288	0.97%	0.159%
364	22.207	2876	2880	2882	VV 2	3548	79902	0.44%	0.072%
365	22.279	2882	2890	2893	VV 2	3373	144456	0.79%	0.130%
366	22.329	2893	2897	2900	VV 2	3200	87010	0.48%	0.078%
367	22.393	2900	2906	2908	VV 2	3398	118766	0.65%	0.107%
368	22.422	2908	2910	2916	VV 2	3385	107337	0.59%	0.097%
369	22.479	2916	2918	2921	VV	3463	66821	0.37%	0.060%
370	22.522	2921	2924	2926	VV 2	3178	66697	0.37%	0.060%
371	22.579	2926	2932	2934	VV	3330	102332	0.56%	0.092%
372	22.622	2934	2938	2944	VV 2	3524	133016	0.73%	0.120%
373	22.680	2944	2946	2949	VV 2	3547	70611	0.39%	0.064%
374	22.744	2949	2955	2956	VV	3140	93701	0.51%	0.084%
375	22.766	2956	2958	2963	VV 2	3425	100642	0.55%	0.091%
376	22.823	2963	2966	2970	VV 2	3439	102586	0.56%	0.092%

0372

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

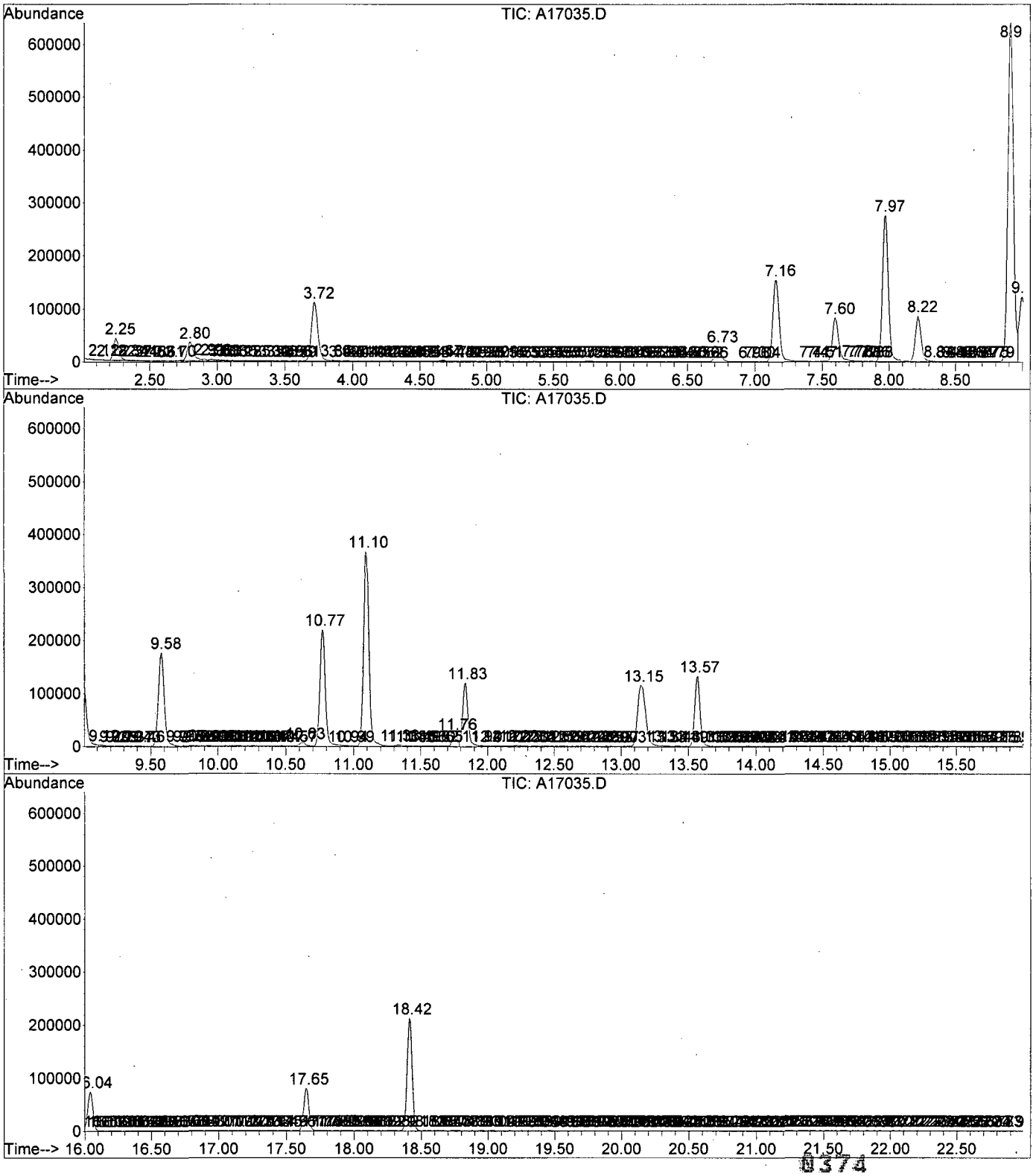
377	22.902	2970	2977	2985	VBA2	3626	208456	1.14%	0.188%

Sum of corrected areas: 111100294

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



0374

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

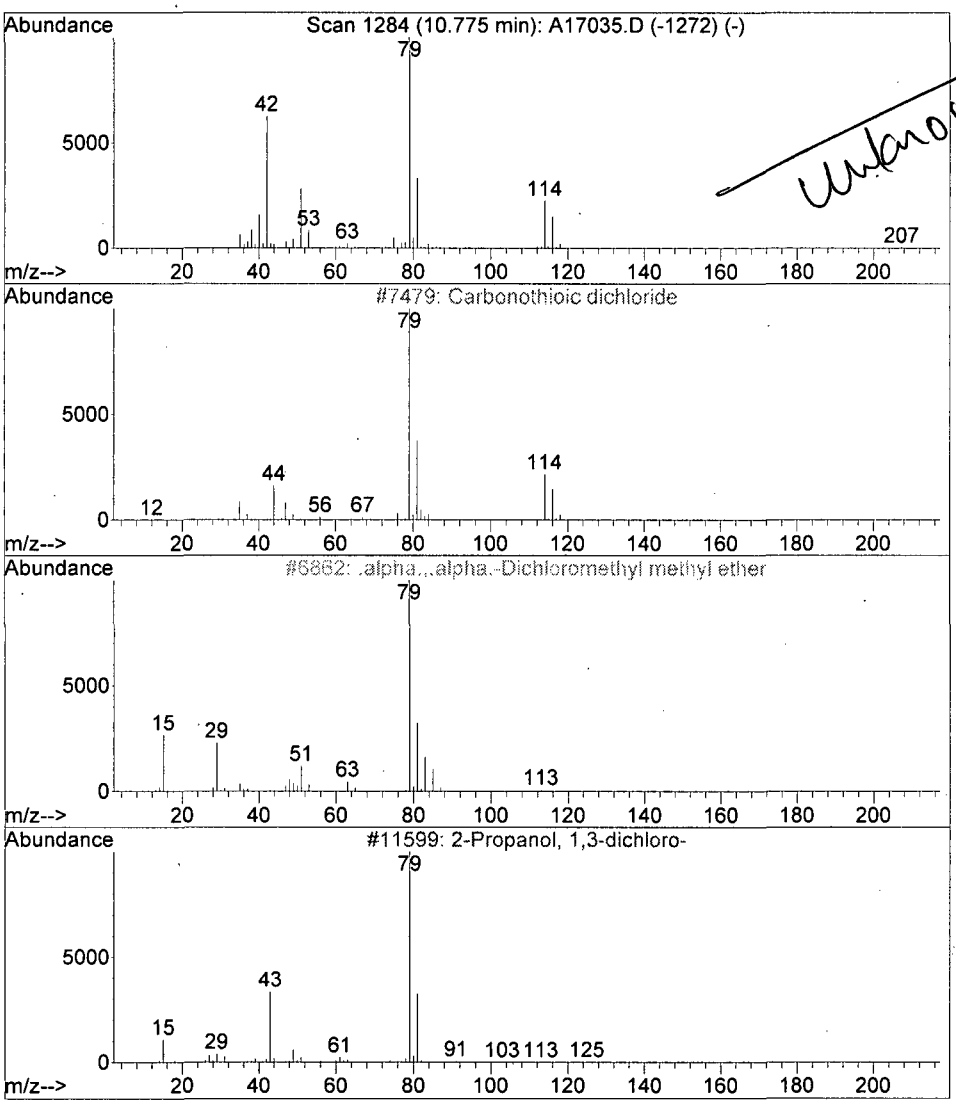
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/28/08

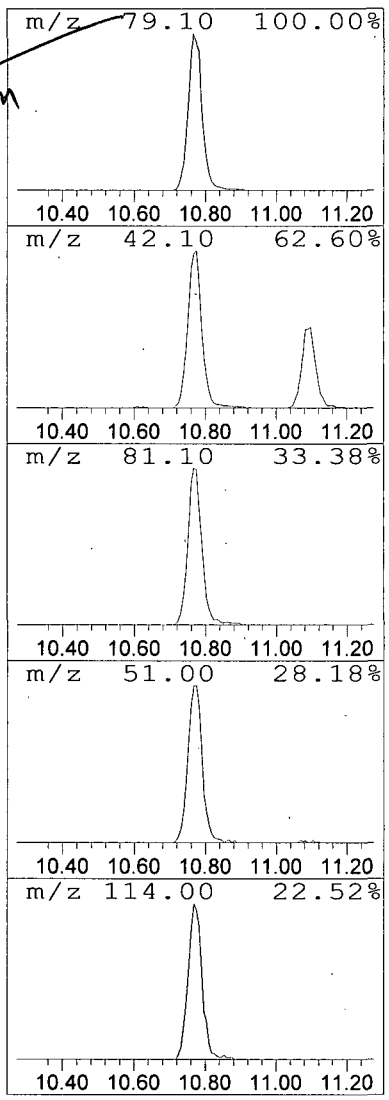
****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	8.14 ug/L	6223160	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	50
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
5	n-Propyl chloride	78	C3H7Cl	000540-54-5	9



Unknown



0375

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17035.D
Acq On : 11/26/08 23:01 Operator: SB
Sample : F2XF7DL 40X Inst : A-5973
Misc : S-2066.12DL 25ML
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	8.1	ug/L	6223160	1	9.00	3820800	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.13

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17023

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	14	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	1.0	U
79-20-9	Methyl acetate	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.59	J
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	0.49	J
156-59-2	cis-1,2-Dichloroethene	140	E
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
110-82-7	Cyclohexane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	0.75	J
107-06-2	1,2-Dichloroethane	1.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.13

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17023

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	1600	E
108-87-2	Methylcyclohexane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	5.0	
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
179601-23-1	m,p-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.13

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17023

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	21.99	1.3	J
02		Unknown-02	22.39	1.9	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

11/28/08

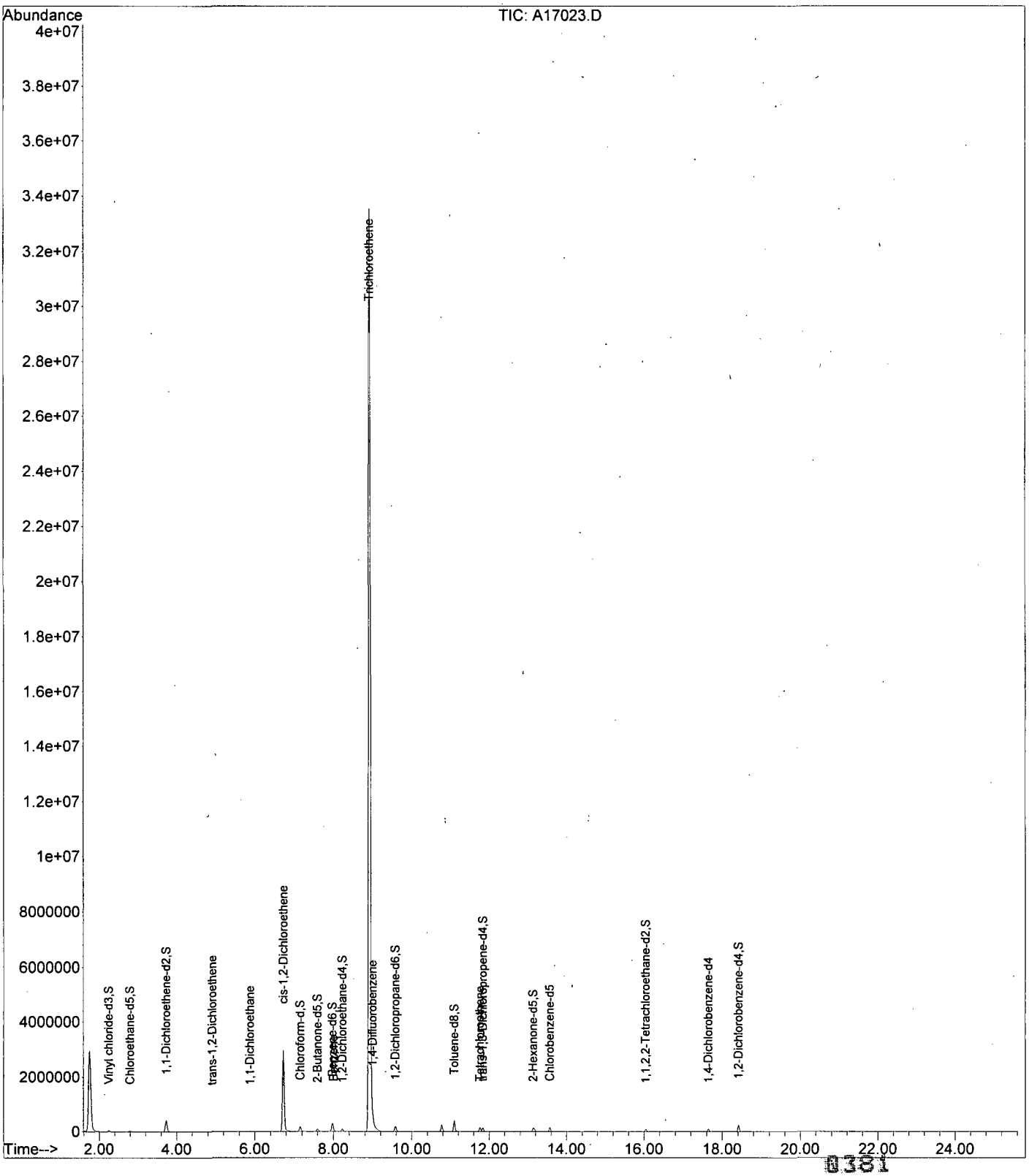
Quant Time: Nov 27 09:22:39 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Nov 27 07:51:19 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1631293	5.00	ug/L	0.01
28) Chlorobenzene-d5	13.57	117	1275055	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	405331	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	794196	3.74	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 74.80%			
7) Chloroethane-d5	2.80	69	505603	4.02	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 80.40%			
10) 1,1-Dichloroethene-d2	3.73	63	2803179	5.35	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 107.00%#			
21) 2-Butanone-d5	7.60	46	1789019	46.81	ug/L	0.01
Spiked Amount 50.000	Range 49 - 155		Recovery = 93.62%			
24) Chloroform-d	7.16	84	2197177	3.81	ug/L	0.01
Spiked Amount 5.000	Range 78 - 121		Recovery = 76.20%#			
26) 1,2-Dichloroethane-d4	8.22	65	1000496	4.34	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 86.80%			
32) Benzene-d6	7.98	84	4150917	4.41	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 88.20%			
36) 1,2-Dichloropropane-d6	9.59	67	1257940	4.50	ug/L	0.01
Spiked Amount 5.000	Range 79 - 124		Recovery = 90.00%			
41) Toluene-d8	11.10	98	3942075	4.57	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 91.40%			
43) trans-1,3-Dichloropropene-	11.84	79	1108433	4.55	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 91.00%			
47) 2-Hexanone-d5	13.14	63	880710	62.66	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 125.32%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	613511	4.62	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 92.40%			
63) 1,2-Dichlorobenzene-d4	18.42	152	968555	5.26	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 105.20%			
Target Compounds						Qvalue
11) 1,1-Dichloroethene	3.74	96	1836104	7.23	ug/L #	64
17) trans-1,2-Dichloroethene	4.92	96	81285	0.30	ug/L	93
19) 1,1-Dichloroethane	5.89	63	130786	0.24	ug/L	99
20) cis-1,2-Dichloroethene	6.73	96	18751893	71.18	ug/L	99
33) Benzene	8.01	78	383543	0.38	ug/L	100
34) Trichloroethene	8.92	95	213802466	789.10	ug/L	90
46) Tetrachloroethene	11.76	164	513265	2.49	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDCHEM\1\DATA\A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

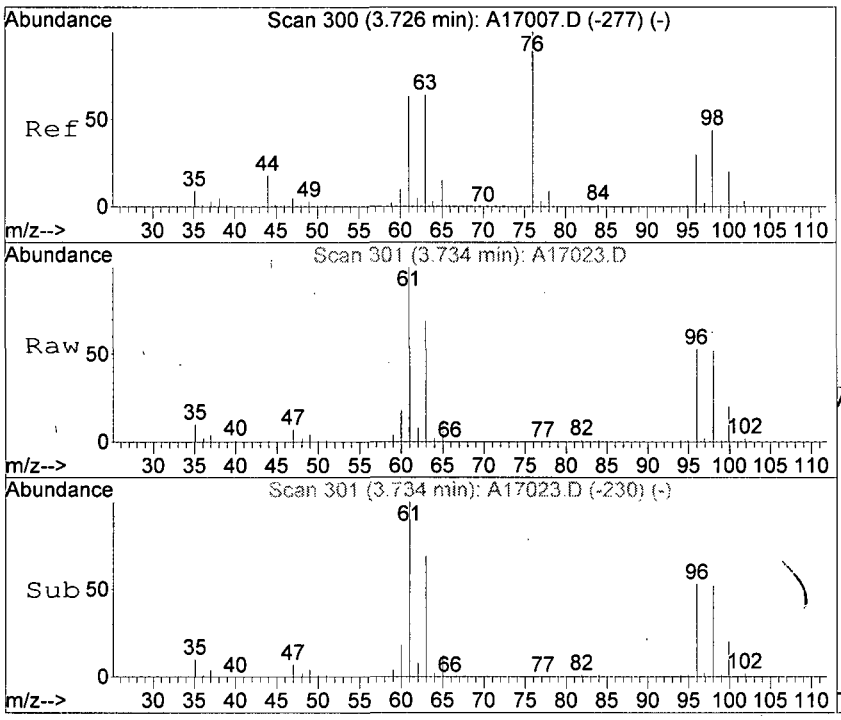
Quant Time: Nov 27 09:22:39 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Nov 27 07:51:19 2008
Response via : Initial Calibration



0381

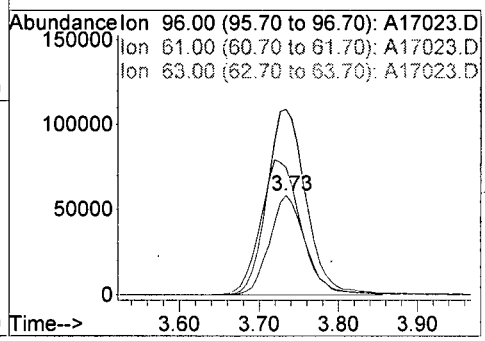
Data File : C:\MSDCHEM\1\DATA\A17023.D
Acq On : 11/26/08 16:12
Sample : F2XF8 2X
Misc : S-2066.13 25ML
MS Integration Params: LSCINT.E

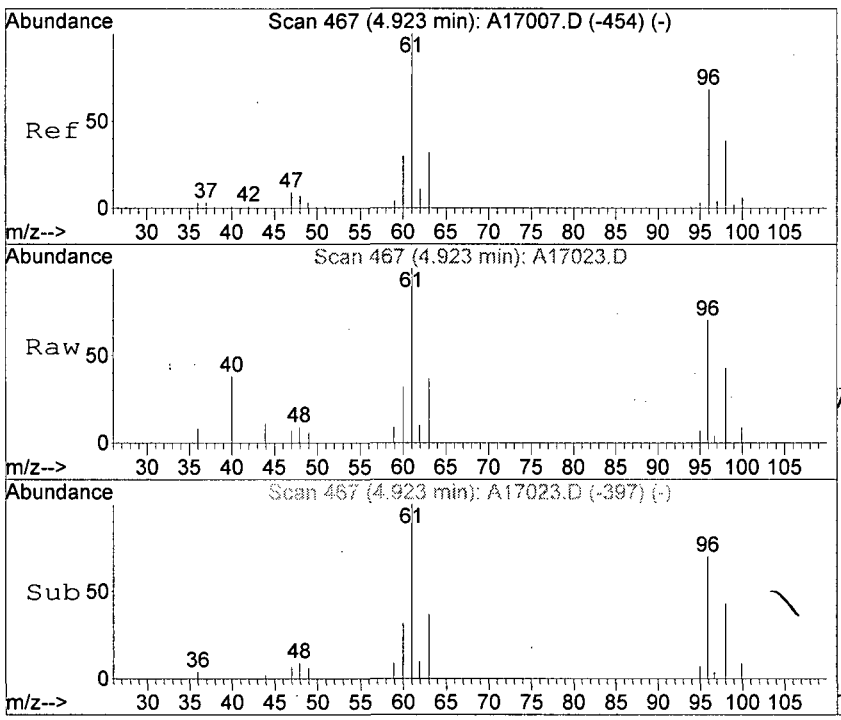
Vial: 4
Operator: SB
Inst : A-5973
Multiplr: 1.00



#11
1,1-Dichloroethene
Concen: 7.23 ug/L
RT: 3.74 min Scan# 301
Delta R.T. 0.01 min
Integration Range:
Scan=287 to 318
R.T.= 3.63 to 3.86 (min)
Tgt Ion: 96 Resp: 1836104

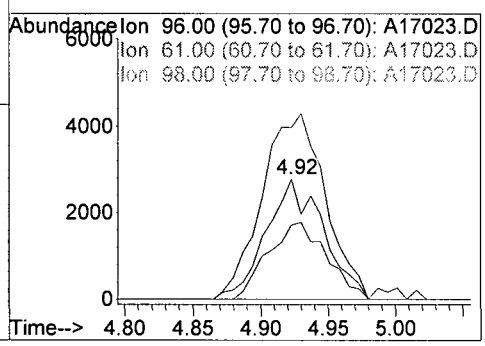
Ion	Ratio	Lower	Upper
96	100		
61	202.3	150.6	225.8
63	151.6	51.0	76.4#





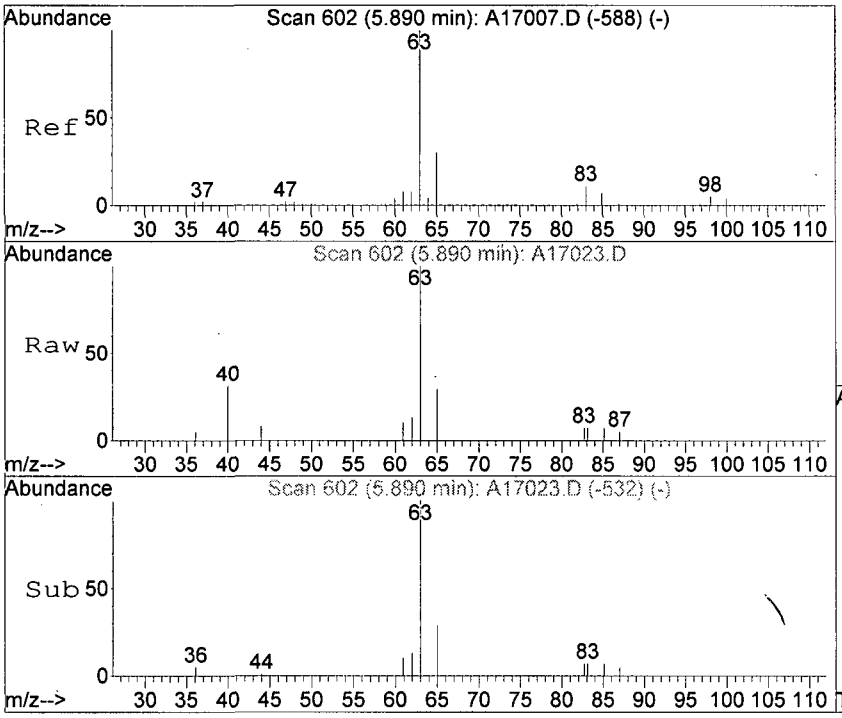
#17
trans-1,2-Dichloroethene
Concen: 0.30 ug/L
RT: 4.92 min Scan# 467
Delta R.T. 0.00 min
Integration Range:
Scan=458 to 477
R.T.= 4.86 to 4.99 (min)
Tgt Ion: 96 Resp: 81285

Ion	Ratio	Lower	Upper
96	100		
61	176.0	131.9	197.9
98	65.6	49.8	74.6



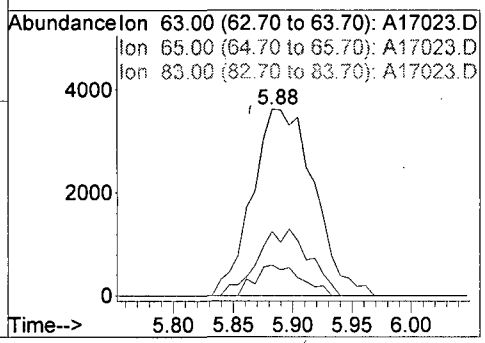
Data File : C:\MSDCHEM\1\DATA\A17023.D
Acq On : 11/26/08 16:12
Sample : F2XF8 2X
Misc : S-2066.13 25ML
MS Integration Params: LSCINT.E

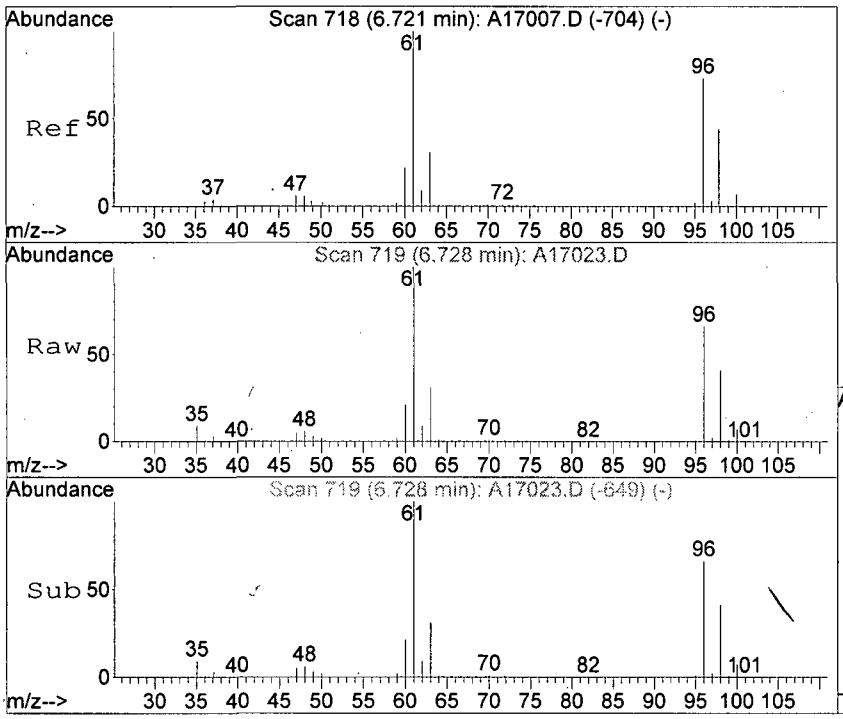
Vial: 4
Operator: SB
Inst : A-5973
Multiplr: 1.00



#19
1,1-Dichloroethane
Concen: 0.24 ug/L
RT: 5.89 min Scan# 602
Delta R.T. 0.00 min
Integration Range:
Scan=593 to 614
R.T.= 5.83 to 5.98 (min)
Tgt Ion: 63 Resp: 130786

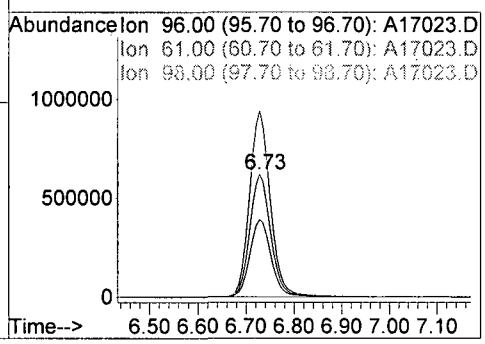
Ion	Ratio	Lower	Upper
63	100		
65	29.7	23.3	34.9
83	12.1	9.1	13.7





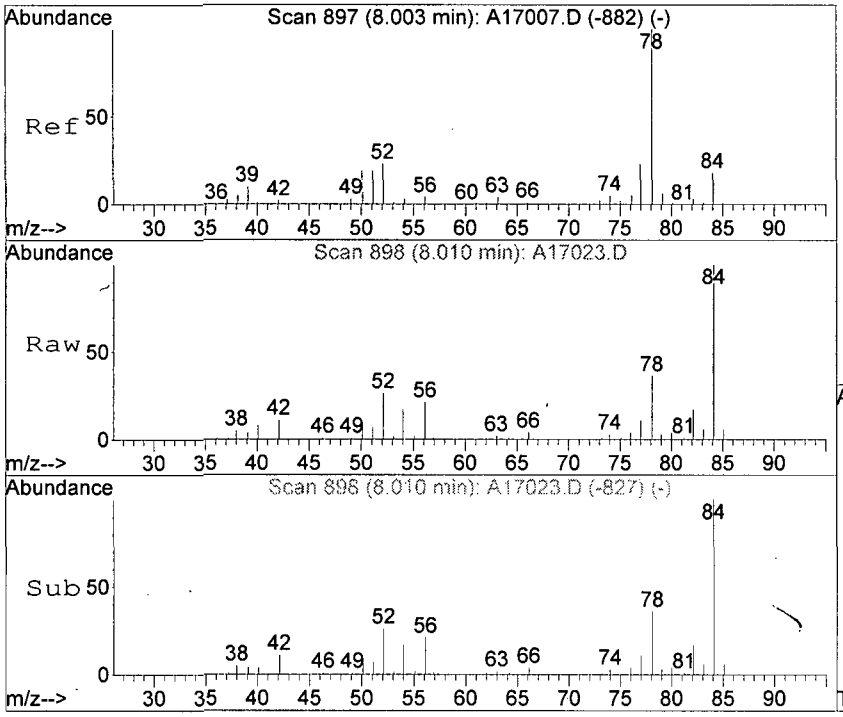
#20
cis-1,2-Dichloroethene
Concen: 71.18 ug/L
RT: 6.73 min Scan# 719
Delta R.T. 0.01 min
Integration Range:
Scan=704 to 755
R.T.= 6.62 to 6.99 (min)
Tgt Ion: 96 Resp:18751893

Ion	Ratio	Lower	Upper
96	100		
61	150.2	119.9	179.9
98	63.7	50.0	75.0

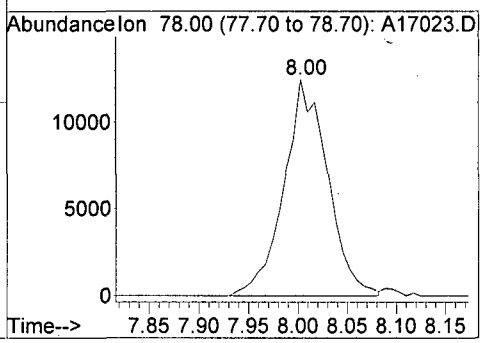


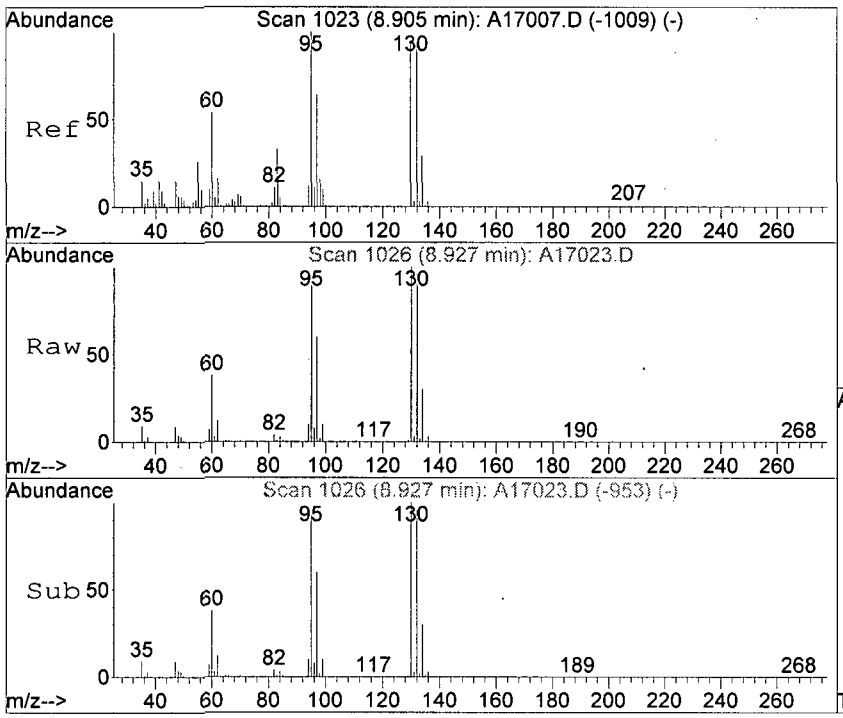
Data File : C:\MSDCHEM\1\DATA\A17023.D
Acq On : 11/26/08 16:12
Sample : F2XF8 2X
Misc : S-2066.13 25ML
MS Integration Params: LSCINT.E

Vial: 4
Operator: SB
Inst : A-5973
Multiplr: 1.00



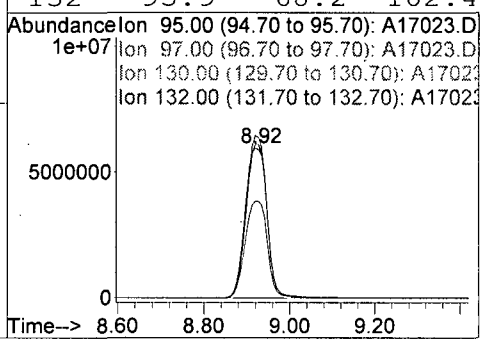
#33
Benzene
Concen: 0.38 ug/L
RT: 8.01 min Scan# 898
Delta R.T. 0.00 min
Integration Range:
Scan=883 to 908
R.T.= 7.90 to 8.08 (min)
Tgt Ion: 78 Resp: 383543





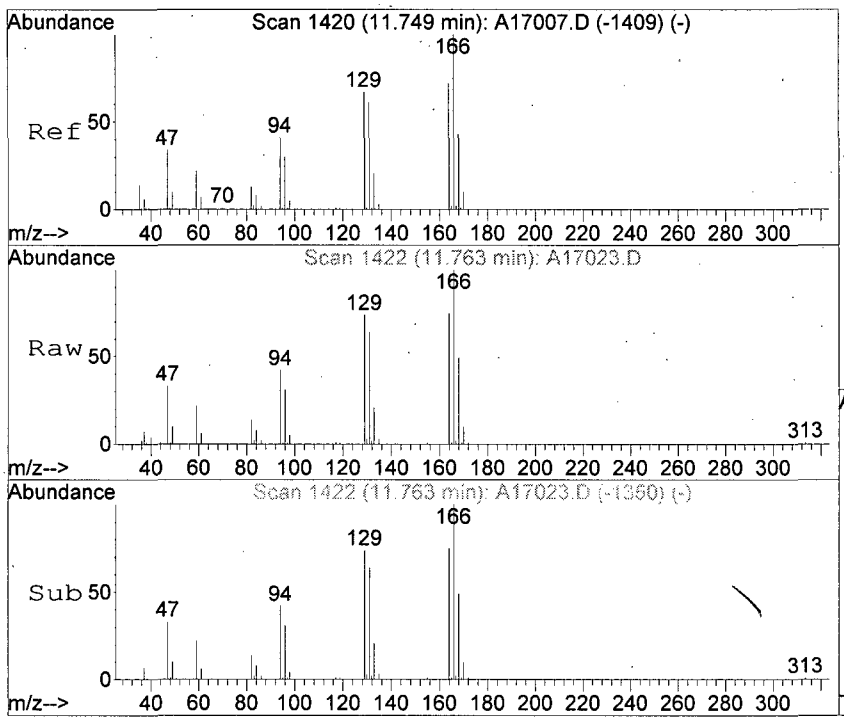
#34
Trichloroethene
Concen: 789.10 ug/L
RT: 8.92 min Scan# 1026
Delta R.T. 0.02 min
Integration Range:
Scan=1009 to 1066
R.T.= 8.81 to 9.21 (min)
Tgt Ion: 95 Resp:213802466

Ion	Ratio	Lower	Upper
95	100		
97	64.4	55.4	83.2
130	100.9	71.8	107.6
132	95.9	68.2	102.4



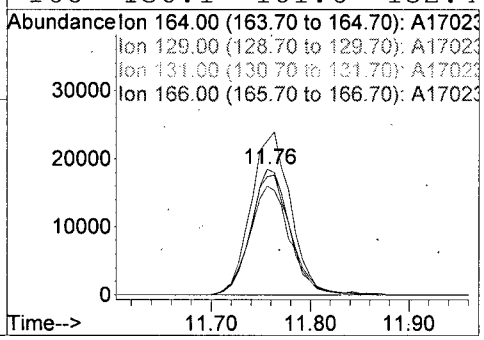
Data File : C:\MSDCHEM\1\DATA\A17023.D
Acq On : 11/26/08 16:12
Sample : F2XF8 2X
Misc : S-2066.13 25ML
MS Integration Params: LSCINT.E

Vial: 4
Operator: SB
Inst : A-5973
Multiplr: 1.00



#46
Tetrachloroethene
Concen: 2.49 ug/L
RT: 11.76 min Scan# 1422
Delta R.T. 0.01 min
Integration Range:
Scan=1412 to 1437
R.T.= 11.69 to 11.87 (min)
Tgt Ion:164 Resp: 513265

Ion	Ratio	Lower	Upper
164	100		
129	95.8	80.6	120.8
131	88.4	79.1	118.7
166	130.1	101.6	152.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.186	80	85	87	PV 5	1075	15935	0.00%	0.001%
2	2.251	87	94	112	VV 2	54893	1515998	0.13%	0.106%
3	2.408	112	116	124	VV 2	863	25340	0.00%	0.002%
4	2.480	124	126	128	VV	794	8196	0.00%	0.001%
5	2.509	128	130	139	PV 2	441	8104	0.00%	0.001%
6	2.588	139	141	143	VV 2	492	4500	0.00%	0.000%
7	2.616	143	145	147	PV 2	667	7323	0.00%	0.001%
8	2.645	147	149	154	VV 3	970	22073	0.00%	0.002%
9	2.802	154	171	185	VV	38105	1355647	0.11%	0.095%
10	2.910	185	186	188	VV	3043	40346	0.00%	0.003%
11	2.953	188	192	193	VV 2	3465	63380	0.01%	0.004%
12	2.981	193	196	208	VV 5	3014	144852	0.01%	0.010%
13	3.075	208	209	214	VV 2	1489	36001	0.00%	0.003%
14	3.125	214	216	220	VV 3	1161	21106	0.00%	0.001%
15	3.175	220	223	225	VV	877	11167	0.00%	0.001%
16	3.196	225	226	232	VV 2	939	18280	0.00%	0.001%
17	3.254	232	234	236	VV	719	7228	0.00%	0.001%
18	3.282	236	238	245	VV 2	731	21199	0.00%	0.001%
19	3.347	245	247	251	VV	1027	10150	0.00%	0.001%
20	3.390	251	253	256	PV 3	677	8046	0.00%	0.001%
21	3.418	256	257	259	VV	645	5311	0.00%	0.000%
22	3.440	259	260	265	VV	596	8408	0.00%	0.001%
23	3.512	265	270	274	VV 3	553	15664	0.00%	0.001%
24	3.555	274	276	281	VV 2	756	10550	0.00%	0.001%
25	3.605	281	283	287	VV 2	857	16920	0.00%	0.001%
26	3.734	287	301	325	VV 3	410662	14313143	1.20%	1.001%
27	3.920	325	327	330	VV 5	2565	48572	0.00%	0.003%
28	3.949	330	331	337	VV 3	2145	43854	0.00%	0.003%
29	4.006	337	339	347	VV 4	1570	53466	0.00%	0.004%
30	4.077	347	349	355	VV 2	1237	25883	0.00%	0.002%
31	4.135	355	357	358	VV	738	8398	0.00%	0.001%
32	4.156	358	360	363	VV	984	14084	0.00%	0.001%
33	4.192	363	365	368	VV 2	996	14239	0.00%	0.001%
34	4.235	368	371	373	VV	1115	18962	0.00%	0.001%
35	4.285	373	378	381	VV 4	1632	39393	0.00%	0.003%
36	4.328	381	384	388	VV 3	1729	37013	0.00%	0.003%
37	4.371	388	390	391	VV 2	760	10601	0.00%	0.001%
38	4.400	391	394	398	VV 2	995	20817	0.00%	0.001%
39	4.443	398	400	403	VV	1021	12904	0.00%	0.001%
40	4.471	403	404	408	VV 2	629	14761	0.00%	0.001%
41	4.514	408	410	419	VV	736	30272	0.00%	0.002%
42	4.593	419	421	423	VV 2	627	9503	0.00%	0.001%
43	4.665	423	431	441	VV 4	4527	173019	0.01%	0.012%
44	4.772	441	446	448	VV 3	1560	31411	0.00%	0.002%

0386

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.808	448	451	452	VV 2	1394	19862	0.00%	0.001%
46	4.830	452	454	458	VV	1068	16659	0.00%	0.001%
47	4.923	458	467	476	VV 3	14497	470612	0.04%	0.033%
48	5.009	476	479	487	VV	1014	37405	0.00%	0.003%
49	5.080	487	489	490	VV	1346	15899	0.00%	0.001%
50	5.102	490	492	497	VV 2	1652	31975	0.00%	0.002%
51	5.159	497	500	503	VV	952	21041	0.00%	0.001%
52	5.195	503	505	512	VV 2	939	31153	0.00%	0.002%
53	5.259	512	514	515	VV	1010	12749	0.00%	0.001%
54	5.281	515	517	524	VV 2	1250	32807	0.00%	0.002%
55	5.338	524	525	527	VV	915	10955	0.00%	0.001%
56	5.360	527	528	533	VV	1261	25002	0.00%	0.002%
57	5.474	533	544	546	VV	1301	54708	0.00%	0.004%
58	5.539	546	553	559	VV 2	1339	56133	0.00%	0.004%
59	5.596	559	561	572	VV 2	1150	51198	0.00%	0.004%
60	5.689	572	574	579	VV	1027	29900	0.00%	0.002%
61	5.739	579	581	583	VV	1262	15197	0.00%	0.001%
62	5.811	583	591	596	VV 4	2603	100128	0.01%	0.007%
63	5.904	596	604	611	VV 3	7929	291794	0.02%	0.020%
64	5.961	611	612	614	VV	1626	22154	0.00%	0.002%
65	6.004	614	618	621	VV 2	1822	43491	0.00%	0.003%
66	6.047	621	624	626	VV 2	1403	21497	0.00%	0.002%
67	6.133	626	636	638	VV 2	1438	62163	0.01%	0.004%
68	6.198	638	645	649	VV 2	1534	56225	0.00%	0.004%
69	6.241	649	651	654	VV 2	1446	24127	0.00%	0.002%
70	6.276	654	656	662	VV	1580	45817	0.00%	0.003%
71	6.348	662	666	670	VV 2	1656	49568	0.00%	0.003%
72	6.391	670	672	675	VV 2	1314	25950	0.00%	0.002%
73	6.427	675	677	682	VV 2	1443	32771	0.00%	0.002%
74	6.477	682	684	688	VV 2	1317	31296	0.00%	0.002%
75	6.520	688	690	694	VV 2	1533	29415	0.00%	0.002%
76	6.570	694	697	703	VV 2	1475	51230	0.00%	0.004%
77	6.728	703	719	766	VV	2926798	89738167	7.50%	6.274%
78	7.165	766	780	796	VV	184731	6062136	0.51%	0.424%
79	7.294	796	798	801	VV 2	3365	60501	0.01%	0.004%
80	7.329	801	803	806	VV 3	2661	46414	0.00%	0.003%
81	7.358	806	807	811	VV 3	2586	53581	0.00%	0.004%
82	7.423	811	816	824	VV 3	3279	136214	0.01%	0.010%
83	7.494	824	826	830	VV 3	2354	59821	0.00%	0.004%
84	7.602	830	841	857	VV	93119	3020481	0.25%	0.211%
85	7.731	857	859	863	VV 3	3689	73953	0.01%	0.005%
86	7.766	863	864	869	VV	2808	61302	0.01%	0.004%
87	7.817	869	871	877	VV 3	2619	81775	0.01%	0.006%
88	7.981	877	894	913	VV	310215	10293978	0.86%	0.720%
89	8.125	913	914	918	VV 2	3416	60443	0.01%	0.004%
90	8.225	918	928	938	VV	94706	3006724	0.25%	0.210%
91	8.318	938	941	948	VV 3	6807	209724	0.02%	0.015%

0387

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	8.382	948	950	956	VV	2	2779	78917	0.01%	0.006%
93	8.483	956	964	967	VV	2	2457	100847	0.01%	0.007%
94	8.547	967	973	975	VV	2	2458	83521	0.01%	0.006%
95	8.612	975	982	985	VV	3	2833	99668	0.01%	0.007%
96	8.655	985	988	989	VV		2437	40691	0.00%	0.003%
97	8.676	989	991	993	VV		2559	37716	0.00%	0.003%
98	8.705	993	995	997	VV		2347	37252	0.00%	0.003%
99	8.741	997	1000	1003	VV	2	2403	57318	0.00%	0.004%
100	8.784	1003	1006	1008	VV	2	2703	58419	0.00%	0.004%
101	8.812	1008	1010	1012	VV		2783	33325	0.00%	0.002%
102	8.927	1012	1026	1077	VV		33449630	1196559909	100.00%	83.661%
103	9.314	1077	1080	1085	VV	5	9449	322840	0.03%	0.023%
104	9.364	1085	1087	1090	VV	3	7966	162240	0.01%	0.011%
105	9.400	1090	1092	1101	VV	8	7721	305532	0.03%	0.021%
106	9.478	1101	1103	1107	VV	4	6626	178375	0.01%	0.012%
107	9.586	1107	1118	1136	VV		194045	6539091	0.55%	0.457%
108	9.722	1136	1137	1145	VV	5	6178	199058	0.02%	0.014%
109	9.794	1145	1147	1153	VV	3	4876	147261	0.01%	0.010%
110	9.851	1153	1155	1171	VV	5	4683	336335	0.03%	0.024%
111	9.994	1171	1175	1180	VV	3	4347	147775	0.01%	0.010%
112	10.044	1180	1182	1186	VV	2	4413	93129	0.01%	0.007%
113	10.080	1186	1187	1192	VV	3	4129	113189	0.01%	0.008%
114	10.137	1192	1195	1196	VV	2	4620	59072	0.00%	0.004%
115	10.159	1196	1198	1200	VV	3	5553	98574	0.01%	0.007%
116	10.188	1200	1202	1205	VV	3	4462	83527	0.01%	0.006%
117	10.223	1205	1207	1208	VV		4140	49953	0.00%	0.003%
118	10.245	1208	1210	1213	VV	2	4379	87201	0.01%	0.006%
119	10.288	1213	1216	1218	VV	3	4403	80570	0.01%	0.006%
120	10.316	1218	1220	1227	VV	4	4337	147536	0.01%	0.010%
121	10.395	1227	1231	1234	VV	3	3966	122551	0.01%	0.009%
122	10.431	1234	1236	1239	VV	2	3987	78274	0.01%	0.005%
123	10.467	1239	1241	1247	VV	2	4102	128120	0.01%	0.009%
124	10.524	1247	1249	1251	VV	2	3723	69363	0.01%	0.005%
125	10.560	1251	1254	1255	VV	2	3966	62358	0.01%	0.004%
126	10.589	1255	1258	1263	VV	4	3910	115894	0.01%	0.008%
127	10.639	1263	1265	1267	VV	3	3978	64933	0.01%	0.005%
128	10.660	1267	1268	1272	VV	2	3916	81366	0.01%	0.006%
129	10.775	1272	1284	1299	VV		258241	7205793	0.60%	0.504%
130	10.889	1299	1300	1313	VV	2	6168	288188	0.02%	0.020%
131	10.997	1313	1315	1318	VV		4326	86945	0.01%	0.006%
132	11.097	1318	1329	1350	VV		403050	11364968	0.95%	0.795%
133	11.262	1350	1352	1359	VV	2	4517	161861	0.01%	0.011%
134	11.326	1359	1361	1371	VV	3	4342	205811	0.02%	0.014%
135	11.427	1371	1375	1377	VV	3	4423	117192	0.01%	0.008%
136	11.455	1377	1379	1381	VV	2	4129	56022	0.00%	0.004%
137	11.484	1381	1383	1385	VV		4379	77261	0.01%	0.005%
138	11.541	1385	1391	1394	VV	3	4403	150651	0.01%	0.011%
139	11.570	1394	1395	1400	VV	3	4216	110840	0.01%	0.008%

0388

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	11.649	1400	1406	1408	VV	4	4743	143881	0.01%	0.010%
141	11.685	1408	1411	1413	VV	2	4763	92249	0.01%	0.006%
142	11.763	1413	1422	1427	VV		148210	4270698	0.36%	0.299%
143	11.835	1427	1432	1448	VV		148048	4276839	0.36%	0.299%
144	11.964	1448	1450	1454	VV	3	4780	113249	0.01%	0.008%
145	12.021	1454	1458	1463	VV	4	4609	169695	0.01%	0.012%
146	12.100	1463	1469	1480	VV	3	8212	424236	0.04%	0.030%
147	12.193	1480	1482	1487	VV	3	4729	124881	0.01%	0.009%
148	12.258	1487	1491	1494	VV	2	4646	140974	0.01%	0.010%
149	12.293	1494	1496	1498	VV		4362	58182	0.00%	0.004%
150	12.322	1498	1500	1509	VV	3	4634	202806	0.02%	0.014%
151	12.408	1509	1512	1514	VV	2	4613	97968	0.01%	0.007%
152	12.437	1514	1516	1522	VV	3	4535	159306	0.01%	0.011%
153	12.494	1522	1524	1526	VV		4632	66417	0.01%	0.005%
154	12.523	1526	1528	1529	VV	2	4444	62540	0.01%	0.004%
155	12.544	1529	1531	1535	VV	2	4460	112961	0.01%	0.008%
156	12.587	1535	1537	1541	VV	3	4806	120272	0.01%	0.008%
157	12.644	1541	1545	1548	VV	3	4583	130531	0.01%	0.009%
158	12.695	1548	1552	1561	VV	3	4698	239643	0.02%	0.017%
159	12.795	1561	1566	1569	VV	4	4784	147135	0.01%	0.010%
160	12.831	1569	1571	1575	VV		4757	113270	0.01%	0.008%
161	12.888	1575	1579	1581	VV	2	4648	126393	0.01%	0.009%
162	12.974	1581	1591	1594	VV	2	4607	237641	0.02%	0.017%
163	13.017	1594	1597	1602	VV	3	4761	154671	0.01%	0.011%
164	13.146	1602	1615	1639	VV	2	140610	5996783	0.50%	0.419%
165	13.332	1639	1641	1650	VV	5	5592	249654	0.02%	0.017%
166	13.411	1650	1652	1657	VV	3	5530	151243	0.01%	0.011%
167	13.461	1657	1659	1663	VV		5234	113601	0.01%	0.008%
168	13.568	1663	1674	1688	VV		153709	4566814	0.38%	0.319%
169	13.683	1688	1690	1694	VV	3	5448	144567	0.01%	0.010%
170	13.748	1694	1699	1702	VV	3	4913	162418	0.01%	0.011%
171	13.783	1702	1704	1709	VV	2	4905	130268	0.01%	0.009%
172	13.855	1709	1714	1721	VV	2	4999	243783	0.02%	0.017%
173	13.934	1721	1725	1729	VV	2	5551	192387	0.02%	0.013%
174	13.998	1729	1734	1736	VV	3	5294	136826	0.01%	0.010%
175	14.020	1736	1737	1742	VV	3	5122	126866	0.01%	0.009%
176	14.077	1742	1745	1747	VV	2	4874	105250	0.01%	0.007%
177	14.099	1747	1748	1750	VV	2	5154	68366	0.01%	0.005%
178	14.134	1750	1753	1757	VV	3	5235	138226	0.01%	0.010%
179	14.177	1757	1759	1762	VV	3	5081	101863	0.01%	0.007%
180	14.213	1762	1764	1766	VV	2	4837	85325	0.01%	0.006%
181	14.242	1766	1768	1770	VV	2	5092	82614	0.01%	0.006%
182	14.285	1770	1774	1778	VV	3	5125	167077	0.01%	0.012%
183	14.335	1778	1781	1783	VV	2	5043	116486	0.01%	0.008%
184	14.378	1783	1787	1789	VV	3	5323	129860	0.01%	0.009%
185	14.428	1789	1794	1798	VV	2	5340	193291	0.02%	0.014%
186	14.493	1798	1803	1810	VV	3	5569	256727	0.02%	0.018%

0389

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	14.578	1810	1815	1819	VV 3	5387	196123	0.02%	0.014%
188	14.657	1819	1826	1830	VV 2	5610	236986	0.02%	0.017%
189	14.700	1830	1832	1839	VV 2	5869	214329	0.02%	0.015%
190	14.836	1839	1851	1852	VV 3	5324	291205	0.02%	0.020%
191	14.865	1852	1855	1860	VV 3	5525	155410	0.01%	0.011%
192	14.915	1860	1862	1863	VV 2	5386	83963	0.01%	0.006%
193	14.937	1863	1865	1867	VV	5214	89264	0.01%	0.006%
194	14.972	1867	1870	1877	VV 3	5267	199862	0.02%	0.014%
195	15.030	1877	1878	1884	VV 2	5469	166705	0.01%	0.012%
196	15.101	1884	1888	1890	VV 2	5211	125277	0.01%	0.009%
197	15.130	1890	1892	1894	VV 2	5158	91778	0.01%	0.006%
198	15.180	1894	1899	1902	VV 3	5553	173899	0.01%	0.012%
199	15.209	1902	1903	1907	VV 2	5774	128579	0.01%	0.009%
200	15.273	1907	1912	1913	VV 3	5298	126726	0.01%	0.009%
201	15.309	1913	1917	1919	VV 2	5470	140291	0.01%	0.010%
202	15.338	1919	1921	1923	VV 2	5436	91565	0.01%	0.006%
203	15.366	1923	1925	1928	VV 2	5301	111290	0.01%	0.008%
204	15.402	1928	1930	1931	VV	5461	74477	0.01%	0.005%
205	15.474	1931	1940	1946	VV 2	5697	328766	0.03%	0.023%
206	15.531	1946	1948	1951	VV 2	5629	136859	0.01%	0.010%
207	15.567	1951	1953	1958	VV 2	5804	145693	0.01%	0.010%
208	15.617	1958	1960	1965	VV 3	5607	169991	0.01%	0.012%
209	15.660	1965	1966	1972	VV 2	5673	176661	0.01%	0.012%
210	15.725	1972	1975	1979	VV 3	5898	155309	0.01%	0.011%
211	15.760	1979	1980	1984	VV 2	5676	117852	0.01%	0.008%
212	15.803	1984	1986	1992	VV 2	5689	180956	0.02%	0.013%
213	15.853	1992	1993	1996	VV 2	5709	96383	0.01%	0.007%
214	15.889	1996	1998	2005	VV 2	6002	224528	0.02%	0.016%
215	15.954	2005	2007	2009	VV 2	6007	105853	0.01%	0.007%
216	16.047	2009	2020	2030	VV	84166	2661072	0.22%	0.186%
217	16.133	2030	2032	2036	VV	6004	136923	0.01%	0.010%
218	16.176	2036	2038	2039	VV	5633	64496	0.01%	0.005%
219	16.197	2039	2041	2042	VV	5825	83293	0.01%	0.006%
220	16.219	2042	2044	2047	VV 2	5921	121069	0.01%	0.008%
221	16.269	2047	2051	2056	VV 3	5960	212094	0.02%	0.015%
222	16.319	2056	2058	2064	VV 3	5942	195405	0.02%	0.014%
223	16.384	2064	2067	2069	VV	6099	133875	0.01%	0.009%
224	16.448	2069	2076	2079	VV 2	5993	232692	0.02%	0.016%
225	16.484	2079	2081	2087	VV 2	6034	198827	0.02%	0.014%
226	16.541	2087	2089	2091	VV	5775	100494	0.01%	0.007%
227	16.570	2091	2093	2103	VV 2	6159	311824	0.03%	0.022%
228	16.656	2103	2105	2108	VV 3	5963	126982	0.01%	0.009%
229	16.692	2108	2110	2114	VV 3	5993	141385	0.01%	0.010%
230	16.735	2114	2116	2119	VV 2	6273	120319	0.01%	0.008%
231	16.770	2119	2121	2123	VV 2	6289	105988	0.01%	0.007%
232	16.799	2123	2125	2128	VV 2	6087	145415	0.01%	0.010%
233	16.885	2128	2137	2139	VV 3	6120	259453	0.02%	0.018%
234	16.914	2139	2141	2147	VV 2	6173	206849	0.02%	0.014%

0390

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.978	2147	2150	2154	VV		6114	170572	0.01%	0.012%
236	17.021	2154	2156	2159	VV		6083	140042	0.01%	0.010%
237	17.050	2159	2160	2162	VV		6273	78744	0.01%	0.006%
238	17.078	2162	2164	2165	VV		6038	80825	0.01%	0.006%
239	17.107	2165	2168	2171	VV	2	6151	150060	0.01%	0.010%
240	17.143	2171	2173	2176	VV	2	6398	113581	0.01%	0.008%
241	17.171	2176	2177	2179	VV		6120	82146	0.01%	0.006%
242	17.193	2179	2180	2183	VV		6305	101410	0.01%	0.007%
243	17.243	2183	2187	2189	VV	2	6352	171477	0.01%	0.012%
244	17.308	2189	2196	2198	VV	2	6394	237241	0.02%	0.017%
245	17.351	2198	2202	2209	VV	2	6187	265746	0.02%	0.019%
246	17.408	2209	2210	2217	VV	2	6487	234845	0.02%	0.016%
247	17.472	2217	2219	2220	VV		6292	81812	0.01%	0.006%
248	17.501	2220	2223	2225	VV	2	6593	110091	0.01%	0.008%
249	17.530	2225	2227	2231	VV	2	6430	163798	0.01%	0.011%
250	17.651	2231	2244	2258	VV	2	98854	3140723	0.26%	0.220%
251	17.766	2258	2260	2262	VV	2	6424	114432	0.01%	0.008%
252	17.823	2262	2268	2269	VV	2	6521	182051	0.02%	0.013%
253	17.838	2269	2270	2274	VV	2	6565	145324	0.01%	0.010%
254	17.881	2274	2276	2280	VV	3	6934	177119	0.01%	0.012%
255	17.924	2280	2282	2286	VV	2	6837	170563	0.01%	0.012%
256	17.967	2286	2288	2291	VV	2	6547	142656	0.01%	0.010%
257	18.002	2291	2293	2295	VV	2	6452	101813	0.01%	0.007%
258	18.031	2295	2297	2300	VV		6599	119605	0.01%	0.008%
259	18.074	2300	2303	2305	VV		6723	139405	0.01%	0.010%
260	18.117	2305	2309	2312	VV	2	6674	191646	0.02%	0.013%
261	18.181	2312	2318	2320	VV	3	6741	229244	0.02%	0.016%
262	18.203	2320	2321	2324	VV		6730	118439	0.01%	0.008%
263	18.246	2324	2327	2329	VV	2	6850	138984	0.01%	0.010%
264	18.267	2329	2330	2338	VV	3	6840	262520	0.02%	0.018%
265	18.418	2338	2351	2362	VV		244275	6711669	0.56%	0.469%
266	18.504	2362	2363	2365	VV		7100	93785	0.01%	0.007%
267	18.540	2365	2368	2375	VV	2	7014	307525	0.03%	0.022%
268	18.611	2375	2378	2381	VV	3	7230	184025	0.02%	0.013%
269	18.669	2381	2386	2388	VV	2	7129	182034	0.02%	0.013%
270	18.697	2388	2390	2397	VV	3	6976	284288	0.02%	0.020%
271	18.762	2397	2399	2404	VV	2	6830	186489	0.02%	0.013%
272	18.812	2404	2406	2408	VV		7159	117729	0.01%	0.008%
273	18.840	2408	2410	2415	VV	3	6970	199664	0.02%	0.014%
274	18.912	2415	2420	2424	VV	2	7191	290631	0.02%	0.020%
275	18.962	2424	2427	2428	VV		6978	119162	0.01%	0.008%
276	18.991	2428	2431	2433	VV		7120	147567	0.01%	0.010%
277	19.020	2433	2435	2439	VV	2	7087	168333	0.01%	0.012%
278	19.063	2439	2441	2448	VV	2	6949	273841	0.02%	0.019%
279	19.141	2448	2452	2454	VV	2	7085	174994	0.01%	0.012%
280	19.177	2454	2457	2459	VV	2	7129	140192	0.01%	0.010%
281	19.220	2459	2463	2465	VV	2	7210	179575	0.02%	0.013%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	19.242	2465	2466	2469	VV	2	7177	116716	0.01%	0.008%
283	19.285	2469	2472	2474	VV	2	7262	150199	0.01%	0.011%
284	19.306	2474	2475	2477	VV		7261	109738	0.01%	0.008%
285	19.335	2477	2479	2482	VV		7155	147218	0.01%	0.010%
286	19.399	2482	2488	2492	VV	2	7162	304117	0.03%	0.021%
287	19.449	2492	2495	2497	VV	3	7393	152785	0.01%	0.011%
288	19.478	2497	2499	2503	VV	3	7246	169353	0.01%	0.012%
289	19.521	2503	2505	2506	VV	2	7442	113992	0.01%	0.008%
290	19.542	2506	2508	2512	VV	2	7378	178444	0.01%	0.012%
291	19.585	2512	2514	2524	VV	3	7184	345760	0.03%	0.024%
292	19.664	2524	2525	2529	VV		7423	178198	0.01%	0.012%
293	19.729	2529	2534	2542	VV	3	7420	399625	0.03%	0.028%
294	19.800	2542	2544	2545	VV		7193	95051	0.01%	0.007%
295	19.843	2545	2550	2555	VV	2	7682	285037	0.02%	0.020%
296	19.893	2555	2557	2561	VV		7401	199394	0.02%	0.014%
297	19.936	2561	2563	2577	VV	2	7618	504107	0.04%	0.035%
298	20.058	2577	2580	2582	VV		7542	153981	0.01%	0.011%
299	20.087	2582	2584	2588	VV		7644	181830	0.02%	0.013%
300	20.130	2588	2590	2591	VV	2	7478	116905	0.01%	0.008%
301	20.158	2591	2594	2598	VV	2	7647	221140	0.02%	0.015%
302	20.201	2598	2600	2602	VV		7640	122699	0.01%	0.009%
303	20.237	2602	2605	2607	VV	2	7871	141469	0.01%	0.010%
304	20.266	2607	2609	2613	VV	2	7762	208192	0.02%	0.015%
305	20.309	2613	2615	2617	VV		7607	126833	0.01%	0.009%
306	20.359	2617	2622	2624	VV	2	7754	212626	0.02%	0.015%
307	20.388	2624	2626	2632	VV	2	7694	264352	0.02%	0.018%
308	20.445	2632	2634	2638	VV		7513	170429	0.01%	0.012%
309	20.488	2638	2640	2646	VV	3	7674	274488	0.02%	0.019%
310	20.545	2646	2648	2655	VV		7712	273343	0.02%	0.019%
311	20.610	2655	2657	2659	VV	2	7791	158153	0.01%	0.011%
312	20.638	2659	2661	2667	VV		7732	240028	0.02%	0.017%
313	20.696	2667	2669	2672	VV	2	7751	172489	0.01%	0.012%
314	20.732	2672	2674	2675	VV	2	7874	105282	0.01%	0.007%
315	20.753	2675	2677	2681	VV	2	7836	197524	0.02%	0.014%
316	20.817	2681	2686	2692	VV	2	7910	345613	0.03%	0.024%
317	20.875	2692	2694	2695	VV		7968	110820	0.01%	0.008%
318	20.896	2695	2697	2699	VV		7901	122285	0.01%	0.009%
319	20.946	2699	2704	2706	VV	3	7995	256683	0.02%	0.018%
320	20.975	2706	2708	2709	VV		7770	97296	0.01%	0.007%
321	21.011	2709	2713	2719	VV		8041	331182	0.03%	0.023%
322	21.075	2719	2722	2726	VV		8009	230151	0.02%	0.016%
323	21.147	2726	2732	2736	VV	2	8048	325296	0.03%	0.023%
324	21.197	2736	2739	2741	VV		7919	175381	0.01%	0.012%
325	21.226	2741	2743	2747	VV		8017	193768	0.02%	0.014%
326	21.269	2747	2749	2751	VV	2	7993	124261	0.01%	0.009%
327	21.297	2751	2753	2754	VV		7828	126108	0.01%	0.009%
328	21.326	2754	2757	2761	VV		7990	237700	0.02%	0.017%
329	21.376	2761	2764	2766	VV	2	8386	164954	0.01%	0.012%

0392

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

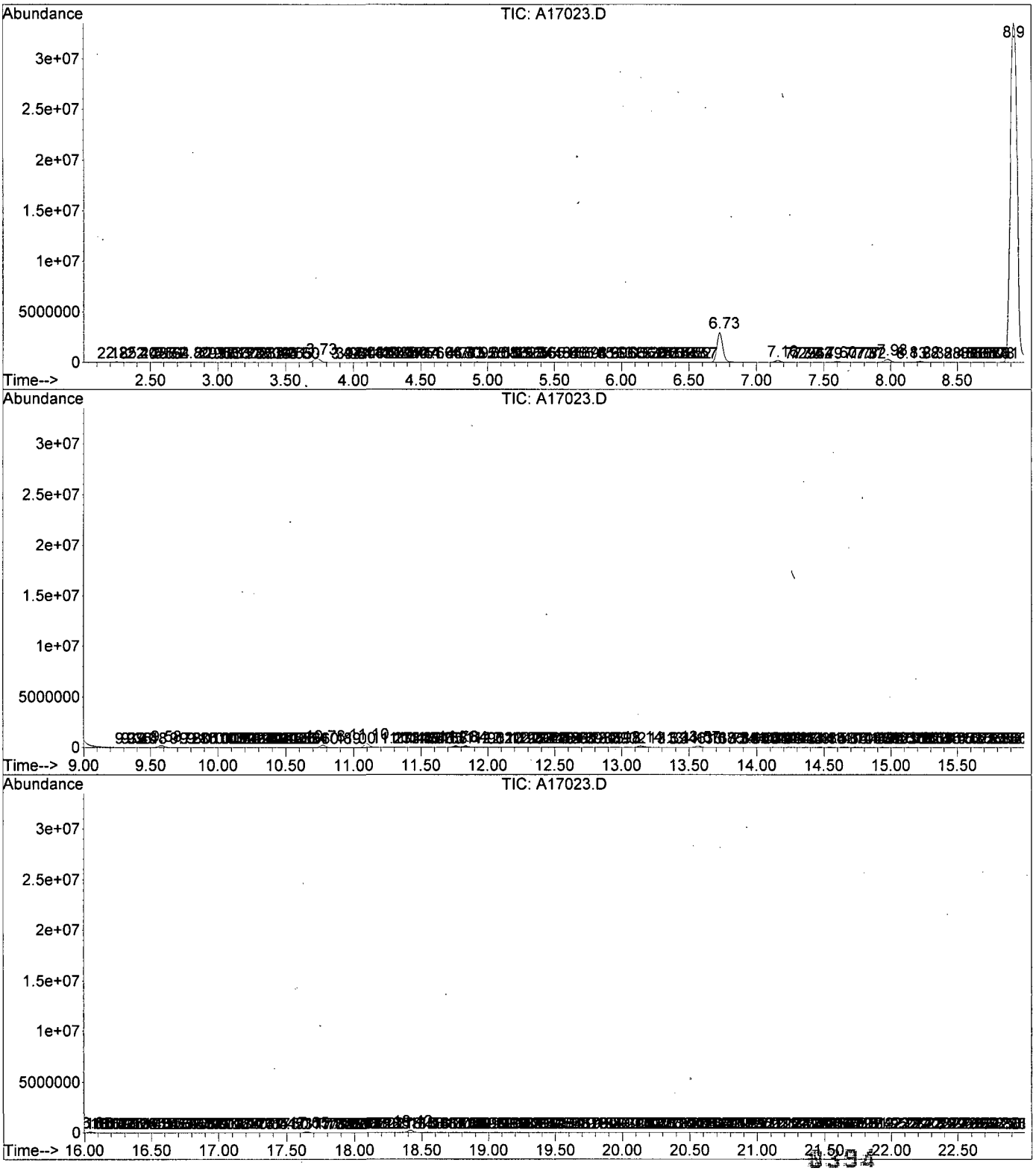
330	21.405	2766	2768	2770	VV	8145	124491	0.01%	0.009%
331	21.441	2770	2773	2775	VV	8078	164517	0.01%	0.012%
332	21.462	2775	2776	2783	VV 2	8139	289755	0.02%	0.020%
333	21.534	2783	2786	2789	VV 2	8109	209122	0.02%	0.015%
334	21.570	2789	2791	2793	VV 2	8213	117153	0.01%	0.008%
335	21.598	2793	2795	2797	VV	8272	154743	0.01%	0.011%
336	21.634	2797	2800	2801	VV	8182	138465	0.01%	0.010%
337	21.656	2801	2803	2806	VV	8236	175343	0.01%	0.012%
338	21.699	2806	2809	2811	VV 2	8443	173754	0.01%	0.012%
339	21.727	2811	2813	2817	VV 2	8107	212463	0.02%	0.015%
340	21.770	2817	2819	2823	VV	8433	192033	0.02%	0.013%
341	21.806	2823	2824	2827	VV	8163	129933	0.01%	0.009%
342	21.842	2827	2829	2834	VV 2	8272	233072	0.02%	0.016%
343	21.921	2834	2840	2842	VV	8255	279848	0.02%	0.020%
344	21.956	2842	2845	2858	VV 2	8430	569396	0.05%	0.040%
345	22.085	2858	2863	2867	VV	8287	316222	0.03%	0.022%
346	22.135	2867	2870	2877	VV	8636	347265	0.03%	0.024%
347	22.200	2877	2879	2882	VV 2	8457	172241	0.01%	0.012%
348	22.236	2882	2884	2886	VV	8466	145097	0.01%	0.010%
349	22.279	2886	2890	2892	VV	8613	219062	0.02%	0.015%
350	22.307	2892	2894	2898	VV	8502	212421	0.02%	0.015%
351	22.386	2898	2905	2914	VV 2	8726	586512	0.05%	0.041%
352	22.486	2914	2919	2921	VV 2	8639	246329	0.02%	0.017%
353	22.515	2921	2923	2927	VV 2	8511	231190	0.02%	0.016%
354	22.558	2927	2929	2932	VV 2	8653	166719	0.01%	0.012%
355	22.594	2932	2934	2935	VV	8405	111806	0.01%	0.008%
356	22.637	2935	2940	2942	VV 2	8686	241444	0.02%	0.017%
357	22.680	2942	2946	2948	VV 3	8861	246707	0.02%	0.017%
358	22.716	2948	2951	2954	VV 2	8943	203076	0.02%	0.014%
359	22.751	2954	2956	2958	VV	8802	148468	0.01%	0.010%
360	22.794	2958	2962	2967	VV 2	8832	338326	0.03%	0.024%
361	22.845	2967	2969	2971	VV 2	8704	147343	0.01%	0.010%
362	22.873	2971	2973	2980	VV 2	8745	342132	0.03%	0.024%
363	22.945	2980	2983	2985	VBA2	8863	165990	0.01%	0.012%

Sum of corrected areas: 1430240961

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

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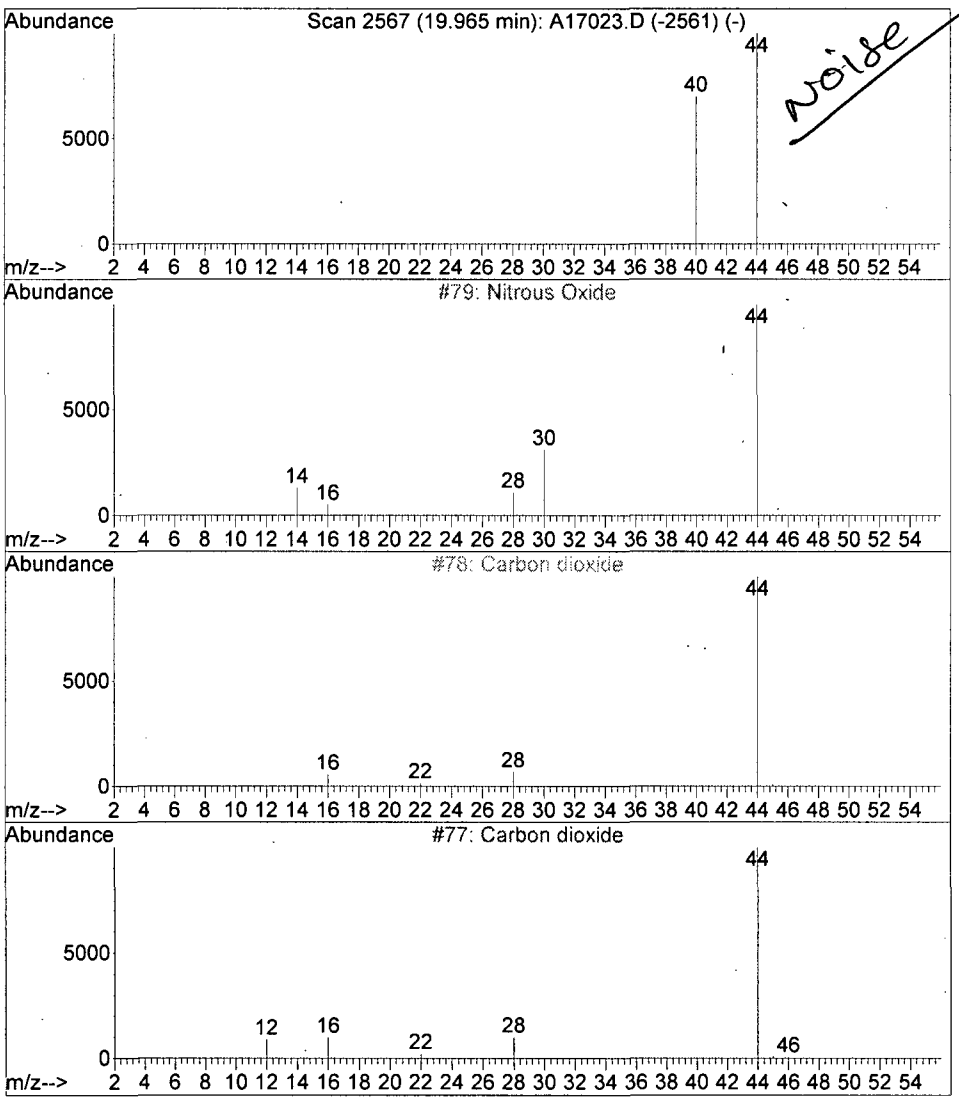
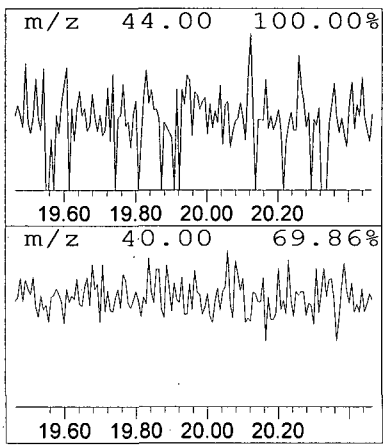
Peak Number 1 Nitrous Oxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.97	0.80 ug/L	503635	1,4-Dichlorobenzene-d4	17.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nitrous Oxide	44	N2O	010024-97-2	2
2	Carbon dioxide	44	CO2	000124-38-9	2
3	Carbon dioxide	44	CO2	000124-38-9	2
4	Ethyne, fluoro-	44	C2HF	002713-09-9	2
5	Ethylene oxide	44	C2H4O	000075-21-8	2





0395

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/28/08

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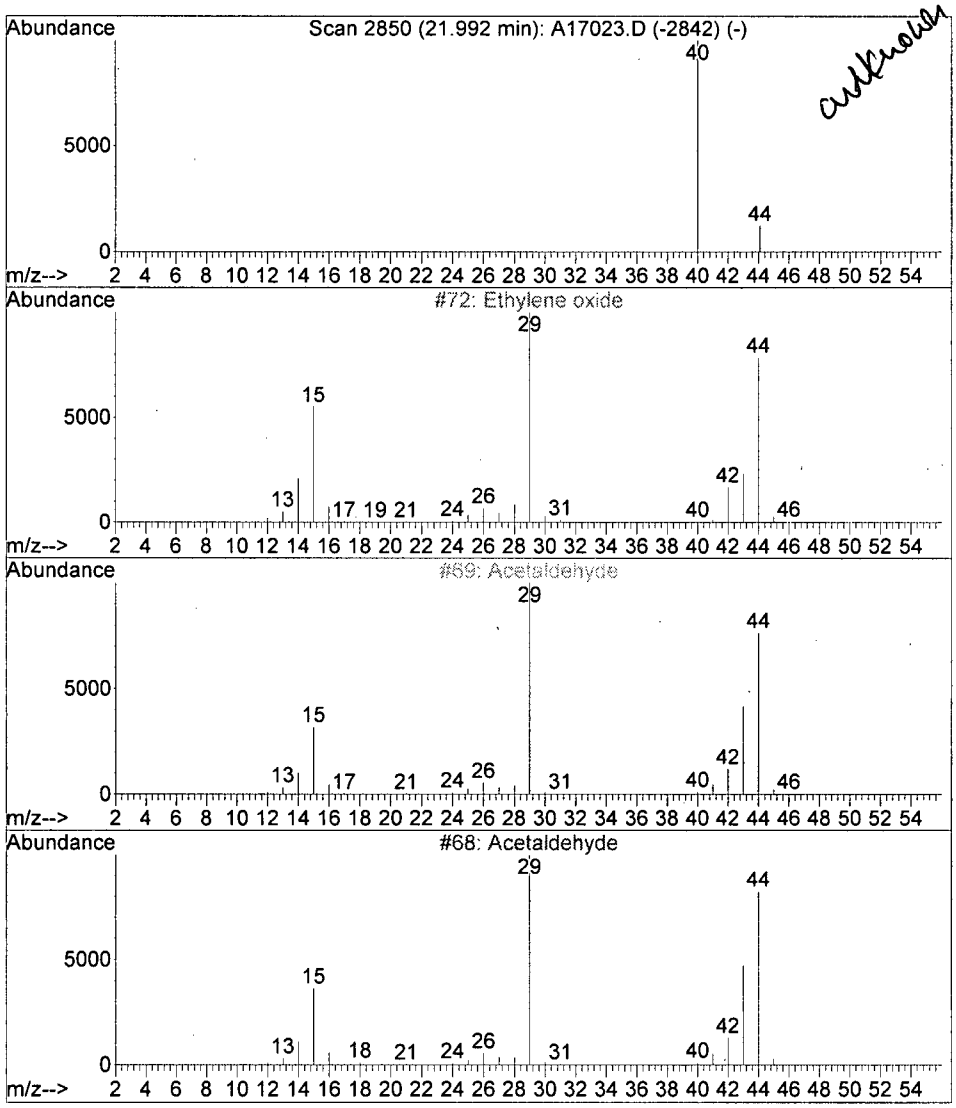
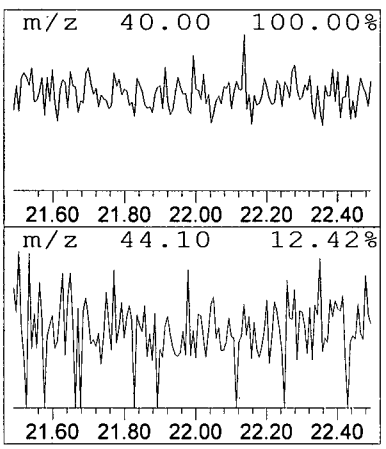
Peak Number 2 Ethylene oxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.99	0.64 ug/L	402726	1,4-Dichlorobenzene-d4	17.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	1
2	Acetaldehyde	44	C2H4O	000075-07-0	1
3	Acetaldehyde	44	C2H4O	000075-07-0	1
4	Ethylene oxide	44	C2H4O	000075-21-8	1
5	Ethylene oxide	44	C2H4O	000075-21-8	1





0396

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

11/26/08

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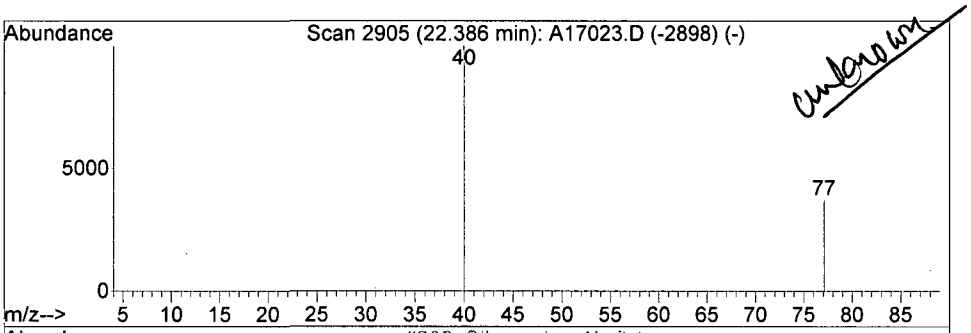
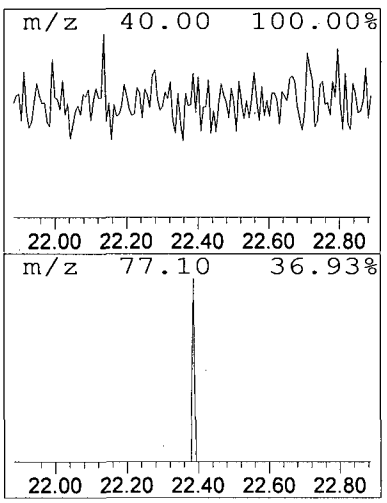
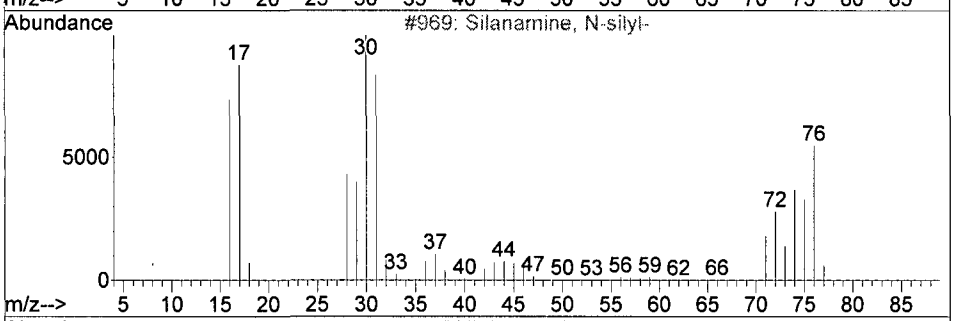
Peak Number 3 Silanamine, N-silyl- Concentration Rank 1

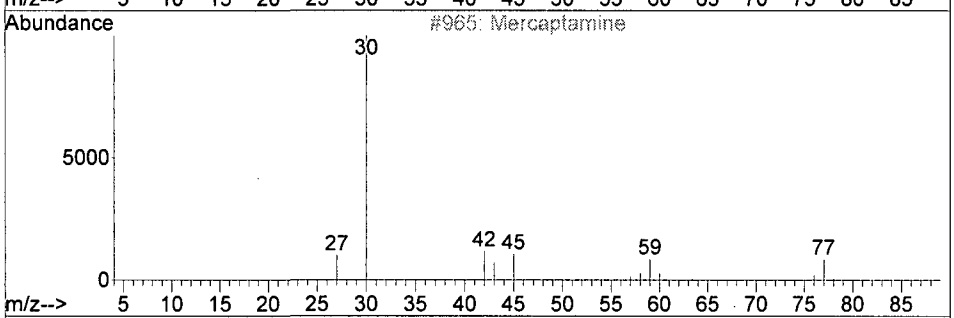
R.T.	EstConc	Area	Relative to ISTD	R.T.
22.39	0.93 ug/L	585952	1,4-Dichlorobenzene-d4	17.65

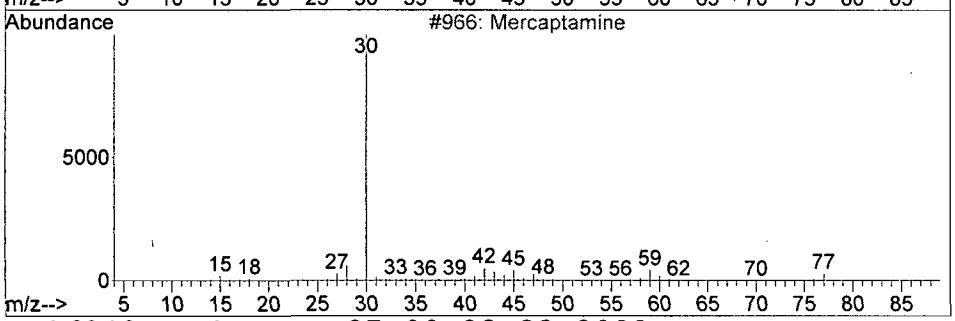
Hit# of 3	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanamine, N-silyl-	77	H7NSi2	005702-11-4	1
2	Mercaptamine	77	C2H7NS	000060-23-1	1
3	Mercaptamine	77	C2H7NS	000060-23-1	1











0397

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17023.D
Acq On : 11/26/08 16:12 Operator: SB
Sample : F2XF8 2X Inst : A-5973
Misc : S-2066.13 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Nitrous Oxide	19.97	0.8	ug/L	503635	3	17.65	3140720	5.0
Ethylene oxide	21.99	0.6	ug/L	402726	3	17.65	3140720	5.0
Silanamine, N-silyl-	22.39	0.9	ug/L	585952	3	17.65	3140720	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF8DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.13DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17051

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 80.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	40	U
74-87-3	Chloromethane	40	U
75-01-4	Vinyl chloride	40	U
74-83-9	Bromomethane	40	U
75-00-3	Chloroethane	40	U
75-69-4	Trichlorofluoromethane	40	U
75-35-4	1,1-Dichloroethene	40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	40	U
67-64-1	Acetone	400	U
75-15-0	Carbon disulfide	40	U
79-20-9	Methyl acetate	40	U
75-09-2	Methylene chloride	40	U
156-60-5	trans-1,2-Dichloroethene	40	U
1634-04-4	Methyl tert-butyl ether	40	U
75-34-3	1,1-Dichloroethane	40	U
156-59-2	cis-1,2-Dichloroethene	110	D
78-93-3	2-Butanone	400	U
74-97-5	Bromochloromethane	40	U
67-66-3	Chloroform	40	U
71-55-6	1,1,1-Trichloroethane	40	U
110-82-7	Cyclohexane	40	U
56-23-5	Carbon tetrachloride	40	U
71-43-2	Benzene	40	U
107-06-2	1,2-Dichloroethane	40	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF8DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.13DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17051

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 80.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	1500	D
108-87-2	Methylcyclohexane	40	U
78-87-5	1,2-Dichloropropane	40	U
75-27-4	Bromodichloromethane	40	U
10061-01-5	cis-1,3-Dichloropropene	40	U
108-10-1	4-Methyl-2-pentanone	400	U
108-88-3	Toluene	40	U
10061-02-6	trans-1,3-Dichloropropene	40	U
79-00-5	1,1,2-Trichloroethane	40	U
127-18-4	Tetrachloroethene	40	U
591-78-6	2-Hexanone	400	U
124-48-1	Dibromochloromethane	40	U
106-93-4	1,2-Dibromoethane	40	U
108-90-7	Chlorobenzene	40	U
100-41-4	Ethylbenzene	40	U
95-47-6	o-Xylene	40	U
179601-23-1	m,p-Xylene	40	U
100-42-5	Styrene	40	U
75-25-2	Bromoform	40	U
98-82-8	Isopropylbenzene	40	U
79-34-5	1,1,2,2-Tetrachloroethane	40	U
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
95-50-1	1,2-Dichlorobenzene	40	U
96-12-8	1,2-Dibromo-3-chloropropane	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
87-61-6	1,2,3-Trichlorobenzene	40	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF8DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.13DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17051

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 80.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.78	580	DJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 28 11:57:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1373626	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1125845	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	333609	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	640602	3.58	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 71.60%			
7) Chloroethane-d5	2.80	69	464781	4.39	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 87.80%			
10) 1,1-Dichloroethene-d2	3.72	63	1320327	2.99	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 59.80%			
21) 2-Butanone-d5	7.60	46	1521004	47.26	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 94.52%			
24) Chloroform-d	7.16	84	1855754	3.82	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 76.40%#			
26) 1,2-Dichloroethane-d4	8.22	65	846358	4.36	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 87.20%			
32) Benzene-d6	7.98	84	3561029	4.29	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 85.80%			
36) 1,2-Dichloropropane-d6	9.59	67	1084475	4.40	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 88.00%			
41) Toluene-d8	11.10	98	3486180	4.58	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 91.60%			
43) trans-1,3-Dichloropropene-	11.84	79	857479	3.99	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 79.80%			
47) 2-Hexanone-d5	13.15	63	663086	53.43	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 106.86%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	519416	4.43	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 88.60%			
63) 1,2-Dichlorobenzene-d4	18.42	152	850660	5.61	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 112.20%			
Target Compounds						Qvalue
20) cis-1,2-Dichloroethene	6.73	96	308924	1.39	ug/L	95
34) Trichloroethene	8.92	95	4392942	18.36	ug/L	93

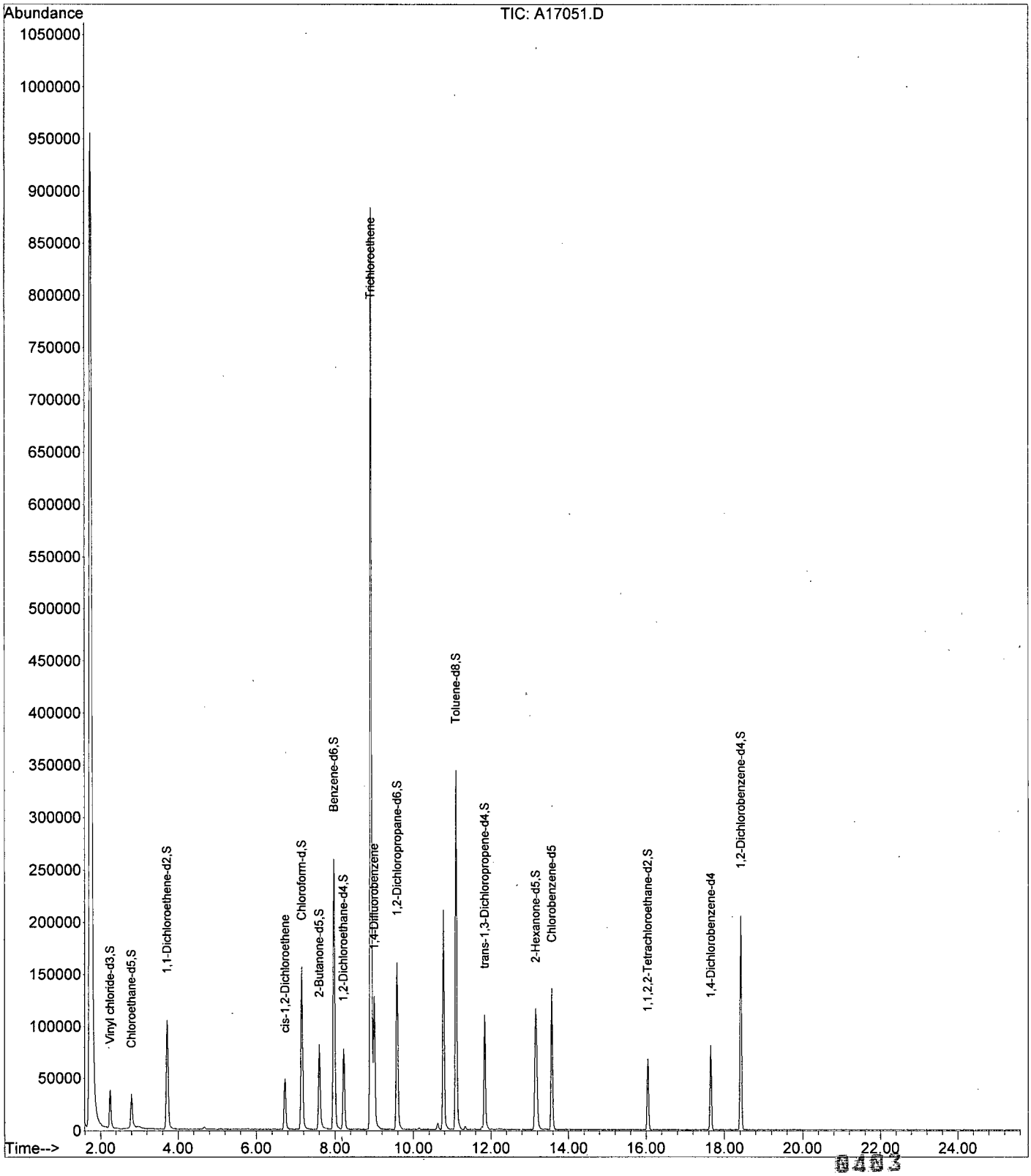
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0402

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

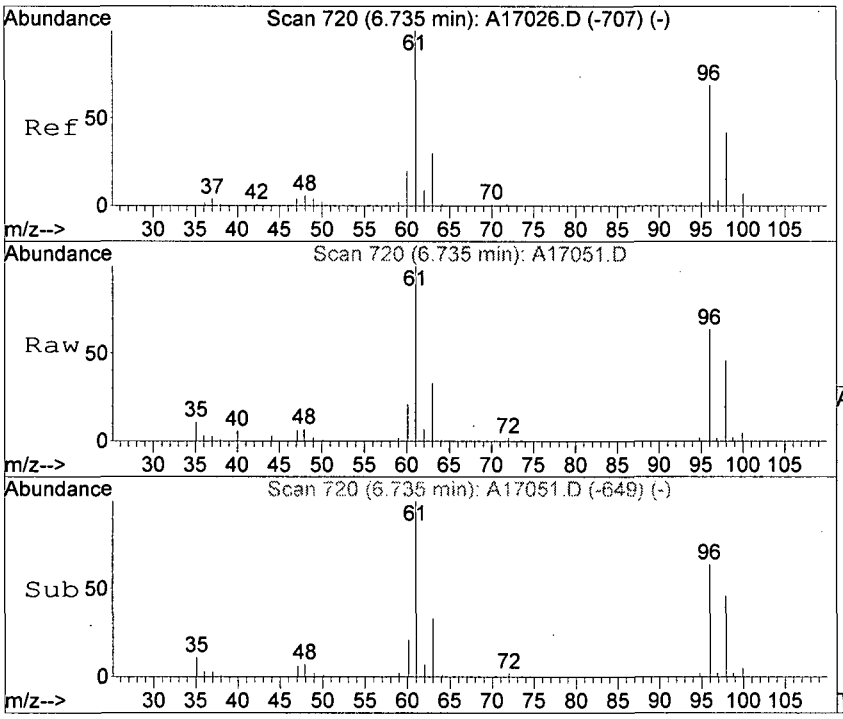
Quant Time: Nov 28 11:57:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



0403

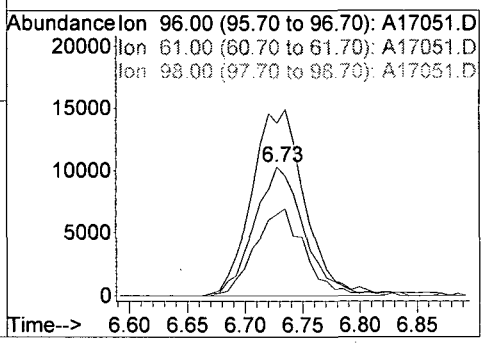
Data File : C:\MSDCHEM\1\DATA\A17051.D
Acq On : 11/27/08 11:26
Sample : F2XF8DL 80X
Misc : S-2066.13DL 25ML
MS Integration Params: LSCINT.E

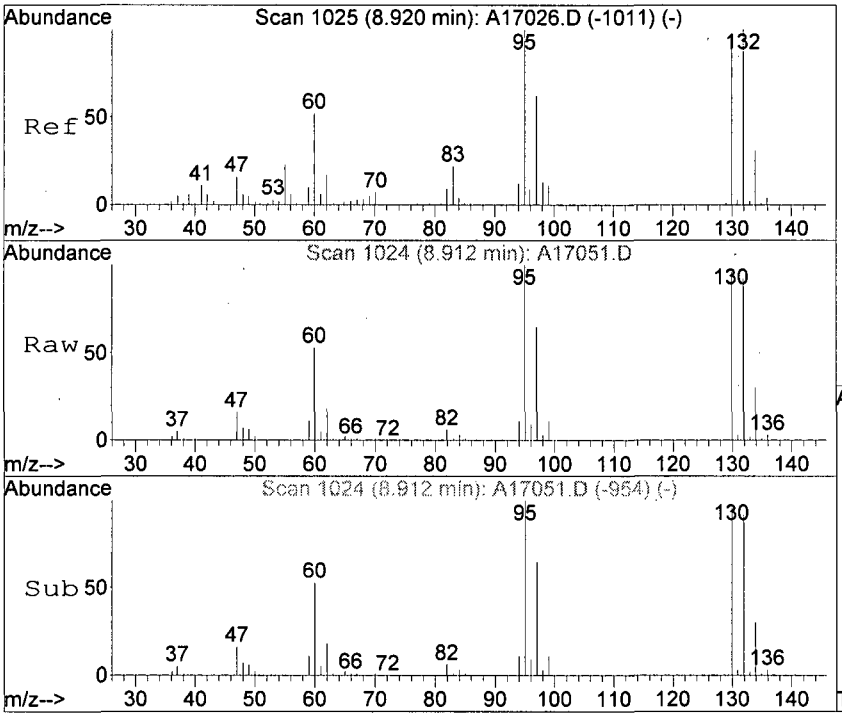
Vial: 3
Operator: SB
Inst : A-5973
Multiplr: 1.00



#20
cis-1,2-Dichloroethene
Concen: 1.39 ug/L
RT: 6.73 min Scan# 720
Delta R.T. 0.00 min
Integration Range:
Scan=710 to 732
R.T.= 6.66 to 6.82 (min)
Tgt Ion: 96 Resp: 308924

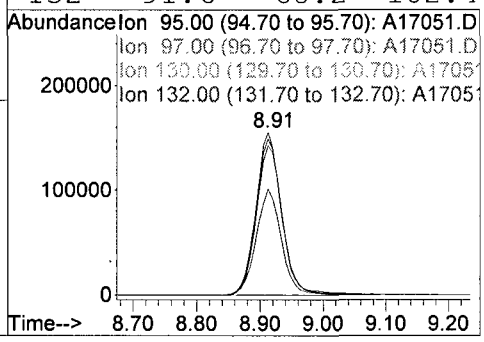
Ion	Ratio	Lower	Upper
96	100		
61	154.9	119.9	179.9
98	67.4	50.0	75.0





#34
Trichloroethene
Concen: 18.36 ug/L
RT: 8.92 min Scan# 1024
Delta R.T. 0.00 min
Integration Range:
Scan=1010 to 1049
R.T.= 8.81 to 9.09 (min)
Tgt Ion: 95 Resp: 4392942

Ion	Ratio	Lower	Upper
95	100		
97	63.9	55.4	83.2
130	96.5	71.8	107.6
132	91.6	68.2	102.4



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.136	72	78	80	BV	859	8022	0.03%	0.008%
2	2.158	80	81	83	VV	1019	6637	0.03%	0.007%
3	2.244	83	93	110	PV	35803	1059071	4.28%	1.053%
4	2.373	110	111	125	VV 3	712	30304	0.12%	0.030%
5	2.523	130	132	135	VV	335	3115	0.01%	0.003%
6	2.587	135	141	147	PV 3	802	21946	0.09%	0.022%
7	2.659	147	151	153	VV 3	852	17734	0.07%	0.018%
8	2.802	153	171	184	VV	32383	1163169	4.70%	1.157%
9	2.903	184	185	198	VV 7	2856	143745	0.58%	0.143%
10	3.024	198	202	212	VV 3	2702	109127	0.44%	0.109%
11	3.110	212	214	219	VV 2	1445	33553	0.14%	0.033%
12	3.175	219	223	225	VV 3	1164	22270	0.09%	0.022%
13	3.196	225	226	228	VV 2	947	11400	0.05%	0.011%
14	3.232	228	231	234	VV 3	1046	15796	0.06%	0.016%
15	3.261	234	235	241	VV 2	981	18452	0.07%	0.018%
16	3.311	241	242	245	VV 2	975	11544	0.05%	0.011%
17	3.375	245	251	252	VV 2	886	21275	0.09%	0.021%
18	3.397	252	254	256	VV 2	709	7249	0.03%	0.007%
19	3.426	256	258	260	VV 2	733	8752	0.04%	0.009%
20	3.454	260	262	266	VV	949	9947	0.04%	0.010%
21	3.547	266	275	279	VV 3	888	23225	0.09%	0.023%
22	3.612	279	284	288	VV 3	639	14263	0.06%	0.014%
23	3.719	288	299	315	VV 2	105028	3627550	14.66%	3.608%
24	3.841	315	316	323	VV 2	2098	43104	0.17%	0.043%
25	3.906	323	325	327	VV 2	991	15787	0.06%	0.016%
26	3.941	327	330	337	VV 3	795	20746	0.08%	0.021%
27	3.999	337	338	339	VV	371	3550	0.01%	0.004%
28	4.020	339	341	343	VV 2	681	5538	0.02%	0.006%
29	4.056	343	346	352	VV 2	756	14336	0.06%	0.014%
30	4.156	352	360	362	VV 2	853	21988	0.09%	0.022%
31	4.185	362	364	368	VV	575	7161	0.03%	0.007%
32	4.242	368	372	377	PV	559	10362	0.04%	0.010%
33	4.307	377	381	386	PV 2	713	13408	0.05%	0.013%
34	4.350	386	387	391	VV 2	430	7737	0.03%	0.008%
35	4.414	391	396	405	VV 2	824	27607	0.11%	0.027%
36	4.529	405	412	416	VV 2	679	19290	0.08%	0.019%
37	4.572	416	418	421	VV	689	8450	0.03%	0.008%
38	4.600	421	422	425	VV 2	626	7175	0.03%	0.007%
39	4.665	425	431	432	VV 3	2306	38404	0.16%	0.038%
40	4.686	432	434	440	VV 3	2242	46935	0.19%	0.047%
41	4.758	440	444	446	VV 2	710	12156	0.05%	0.012%
42	4.787	446	448	450	VV	686	9052	0.04%	0.009%
43	4.815	450	452	455	VV 2	577	8312	0.03%	0.008%
44	4.851	455	457	459	VV 2	861	10598	0.04%	0.011%

0405

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.880	459	461	463	VV		768	9408	0.04%	0.009%
46	4.908	463	465	467	VV	2	1028	9615	0.04%	0.010%
47	4.937	467	469	472	VV	2	862	13107	0.05%	0.013%
48	4.980	472	475	477	VV	2	613	8764	0.04%	0.009%
49	5.009	477	479	482	VV	2	396	6819	0.03%	0.007%
50	5.066	482	487	489	VV	2	967	16467	0.07%	0.016%
51	5.095	489	491	496	VV	2	1064	14855	0.06%	0.015%
52	5.138	496	497	501	VV	2	554	8774	0.04%	0.009%
53	5.202	501	506	508	VV	2	785	13240	0.05%	0.013%
54	5.231	508	510	512	VV	2	603	5689	0.02%	0.006%
55	5.252	512	513	519	VV		554	12688	0.05%	0.013%
56	5.309	519	521	523	VV		449	5404	0.02%	0.005%
57	5.345	523	526	531	VV		1064	15359	0.06%	0.015%
58	5.403	531	534	537	VV		669	11646	0.05%	0.012%
59	5.438	537	539	542	VV	2	578	8859	0.04%	0.009%
60	5.489	542	546	549	VV	2	569	13706	0.06%	0.014%
61	5.524	549	551	554	VV	2	682	10283	0.04%	0.010%
62	5.567	554	557	562	VV	2	677	16728	0.07%	0.017%
63	5.632	562	566	570	VV	2	1067	18611	0.08%	0.019%
64	5.668	570	571	576	VV	2	726	14681	0.06%	0.015%
65	5.718	576	578	581	VV	2	810	10241	0.04%	0.010%
66	5.789	581	588	596	VV	2	1429	48499	0.20%	0.048%
67	5.861	596	598	599	VV		486	5135	0.02%	0.005%
68	5.890	599	602	607	VV	2	811	17296	0.07%	0.017%
69	5.954	607	611	614	VV	2	757	16926	0.07%	0.017%
70	5.990	614	616	621	VV		675	12075	0.05%	0.012%
71	6.040	621	623	628	VV		596	12605	0.05%	0.013%
72	6.090	628	630	631	VV	2	706	6398	0.03%	0.006%
73	6.119	631	634	639	VV	2	937	16246	0.07%	0.016%
74	6.176	639	642	644	VV		680	8152	0.03%	0.008%
75	6.198	644	645	648	VV		553	9447	0.04%	0.009%
76	6.241	648	651	656	VV	2	678	15790	0.06%	0.016%
77	6.291	656	658	659	VV	2	525	6493	0.03%	0.006%
78	6.312	659	661	665	VV		834	11438	0.05%	0.011%
79	6.362	665	668	671	PV	2	543	8414	0.03%	0.008%
80	6.420	671	676	678	VV	2	589	13164	0.05%	0.013%
81	6.448	678	680	691	VV	2	864	30964	0.13%	0.031%
82	6.563	691	696	700	VV	2	555	14914	0.06%	0.015%
83	6.606	700	702	710	VV	2	829	22713	0.09%	0.023%
84	6.735	710	720	736	VV		48457	1566031	6.33%	1.557%
85	6.871	736	739	743	VV	2	992	18508	0.07%	0.018%
86	6.914	743	745	747	VV	2	824	9554	0.04%	0.010%
87	6.943	747	749	751	VV		674	8420	0.03%	0.008%
88	6.971	751	753	765	VV	2	413	27759	0.11%	0.028%
89	7.158	765	779	818	VV		154576	4983951	20.15%	4.957%
90	7.602	818	841	883	VV	2	80395	2728710	11.03%	2.714%
91	7.974	883	893	918	VV		258022	7993465	32.31%	7.949%

0406

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	8.225	918	928	947	VV		77028	2453575	9.92%	2.440%
93	8.382	947	950	954	VV	2	683	13313	0.05%	0.013%
94	8.418	954	955	960	VV	2	828	12924	0.05%	0.013%
95	8.476	960	963	968	VV	2	714	17993	0.07%	0.018%
96	8.526	968	970	974	VV	2	760	14633	0.06%	0.015%
97	8.597	974	980	989	VV	3	877	34390	0.14%	0.034%
98	8.733	989	999	1004	VV		876	26165	0.11%	0.026%
99	8.784	1004	1006	1007	VV		513	5882	0.02%	0.006%
100	8.920	1007	1025	1032	VV		876237	24739113	100.00%	24.603%
101	8.998	1032	1036	1061	VV	2	126213	3953586	15.98%	3.932%
102	9.199	1061	1064	1074	VV	2	1469	37075	0.15%	0.037%
103	9.400	1074	1092	1106	VV	2	894	75275	0.30%	0.075%
104	9.586	1106	1118	1140	VV	2	158091	5039634	20.37%	5.012%
105	9.772	1140	1144	1150	VV		833	21786	0.09%	0.022%
106	9.829	1150	1152	1154	VV		1081	11957	0.05%	0.012%
107	9.865	1154	1157	1170	VV	2	702	34518	0.14%	0.034%
108	10.008	1170	1177	1181	VV	2	779	24576	0.10%	0.024%
109	10.051	1181	1183	1192	VV	2	768	22164	0.09%	0.022%
110	10.152	1192	1197	1210	VV	5	1669	64031	0.26%	0.064%
111	10.259	1210	1212	1216	VV	2	863	13052	0.05%	0.013%
112	10.309	1216	1219	1221	VV	2	721	12298	0.05%	0.012%
113	10.359	1221	1226	1233	VV		865	26223	0.11%	0.026%
114	10.445	1233	1238	1245	VV	2	563	19514	0.08%	0.019%
115	10.524	1245	1249	1255	VV	2	799	20545	0.08%	0.020%
116	10.632	1255	1264	1274	VV	4	5789	213170	0.86%	0.212%
117	10.775	1274	1284	1308	VV		209883	5755499	23.26%	5.724%
118	11.097	1308	1329	1356	VV		341686	9538630	38.56%	9.486%
119	11.341	1356	1363	1370	VV	3	3395	102588	0.41%	0.102%
120	11.405	1370	1372	1375	VV		796	11180	0.05%	0.011%
121	11.470	1375	1381	1389	VV	3	802	34195	0.14%	0.034%
122	11.541	1389	1391	1393	VV	2	680	9739	0.04%	0.010%
123	11.584	1393	1397	1415	VV	2	1088	54162	0.22%	0.054%
124	11.771	1415	1423	1425	VV	5	3001	77170	0.31%	0.077%
125	11.835	1425	1432	1453	VV	2	109136	3044055	12.30%	3.027%
126	12.021	1453	1458	1479	VV	2	849	70221	0.28%	0.070%
127	12.215	1479	1485	1500	VV	4	1553	80152	0.32%	0.080%
128	12.344	1500	1503	1515	VV	2	889	31574	0.13%	0.031%
129	12.451	1515	1518	1522	VV	2	865	16415	0.07%	0.016%
130	12.494	1522	1524	1538	VV	2	782	34549	0.14%	0.034%
131	12.644	1538	1545	1548	VV	2	879	25695	0.10%	0.026%
132	12.702	1548	1553	1555	VV	2	839	17440	0.07%	0.017%
133	12.773	1555	1563	1566	VV	2	764	20445	0.08%	0.020%
134	12.823	1566	1570	1579	VV		859	27238	0.11%	0.027%
135	12.952	1579	1588	1594	VV	2	794	29187	0.12%	0.029%
136	13.160	1594	1617	1644	VV		114311	4670813	18.88%	4.645%
137	13.375	1644	1647	1649	VV		984	15495	0.06%	0.015%
138	13.411	1649	1652	1655	VV	2	1042	22877	0.09%	0.023%
139	13.454	1655	1658	1661	VV		934	16396	0.07%	0.016%

0407

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	13.568	1661	1674	1690	VV		133901	3648972	14.75%	3.629%
141	13.697	1690	1692	1697	VV	2	662	13973	0.06%	0.014%
142	13.748	1697	1699	1731	VV	4	763	74702	0.30%	0.074%
143	14.034	1731	1739	1742	VV		1011	23783	0.10%	0.024%
144	14.070	1742	1744	1752	VV	2	616	21218	0.09%	0.021%
145	14.141	1752	1754	1760	VV	2	573	15246	0.06%	0.015%
146	14.206	1760	1763	1764	VV	2	692	8765	0.04%	0.009%
147	14.227	1764	1766	1772	VV		878	17255	0.07%	0.017%
148	14.278	1772	1773	1780	VV		524	14906	0.06%	0.015%
149	14.407	1780	1791	1795	VV	2	824	36091	0.15%	0.036%
150	14.464	1795	1799	1807	VV	2	619	25301	0.10%	0.025%
151	14.543	1807	1810	1818	VV	2	759	22741	0.09%	0.023%
152	14.621	1818	1821	1822	VV	2	548	8417	0.03%	0.008%
153	14.643	1822	1824	1831	VV	2	865	16598	0.07%	0.017%
154	14.707	1831	1833	1836	VV	2	664	10637	0.04%	0.011%
155	14.758	1836	1840	1846	VV	2	649	20519	0.08%	0.020%
156	14.829	1846	1850	1867	VV	2	675	38729	0.16%	0.039%
157	14.980	1867	1871	1878	VV	2	783	25514	0.10%	0.025%
158	15.044	1878	1880	1885	VV	2	736	13179	0.05%	0.013%
159	15.130	1885	1892	1918	VV	2	982	58986	0.24%	0.059%
160	15.352	1918	1923	1942	VV	2	849	53432	0.22%	0.053%
161	15.524	1942	1947	1952	VV	2	530	17225	0.07%	0.017%
162	15.581	1952	1955	1961	VV	2	684	15621	0.06%	0.016%
163	15.653	1961	1965	1974	VV	2	873	29349	0.12%	0.029%
164	15.732	1974	1976	1980	VV	2	637	11430	0.05%	0.011%
165	15.839	1980	1991	2003	VV	2	629	40140	0.16%	0.040%
166	15.947	2003	2006	2009	VV		534	9405	0.04%	0.009%
167	16.047	2009	2020	2035	VV	2	67528	1878683	7.59%	1.868%
168	16.169	2035	2037	2044	VV	2	607	13895	0.06%	0.014%
169	16.298	2044	2055	2068	VV	2	639	40386	0.16%	0.040%
170	16.484	2068	2081	2103	VV	2	847	71014	0.29%	0.071%
171	16.763	2103	2120	2126	VV	2	775	49953	0.20%	0.050%
172	16.820	2126	2128	2143	VV	2	897	29640	0.12%	0.029%
173	16.971	2143	2149	2173	VV		476	42740	0.17%	0.043%
174	17.186	2173	2179	2183	VV	2	517	12632	0.05%	0.013%
175	17.651	2183	2244	2299	VV	2	80802	2292937	9.27%	2.280%
176	18.153	2299	2314	2333	VV	2	1137	67232	0.27%	0.067%
177	18.418	2333	2351	2384	VV		206724	5386680	21.77%	5.357%
178	18.669	2384	2386	2401	VV	2	766	33347	0.13%	0.033%
179	18.812	2401	2406	2421	VV		481	39710	0.16%	0.039%
180	19.113	2421	2448	2475	VV	2	1140	108489	0.44%	0.108%
181	19.328	2475	2478	2490	VV	2	568	26303	0.11%	0.026%
182	19.442	2490	2494	2498	VV	2	495	16881	0.07%	0.017%
183	19.521	2498	2505	2511	VV	2	915	32381	0.13%	0.032%
184	19.585	2511	2514	2523	VV	2	485	24954	0.10%	0.025%
185	19.750	2523	2537	2556	VV	2	909	81481	0.33%	0.081%
186	19.929	2556	2562	2612	VV	2	895	115729	0.47%	0.115%

0408

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

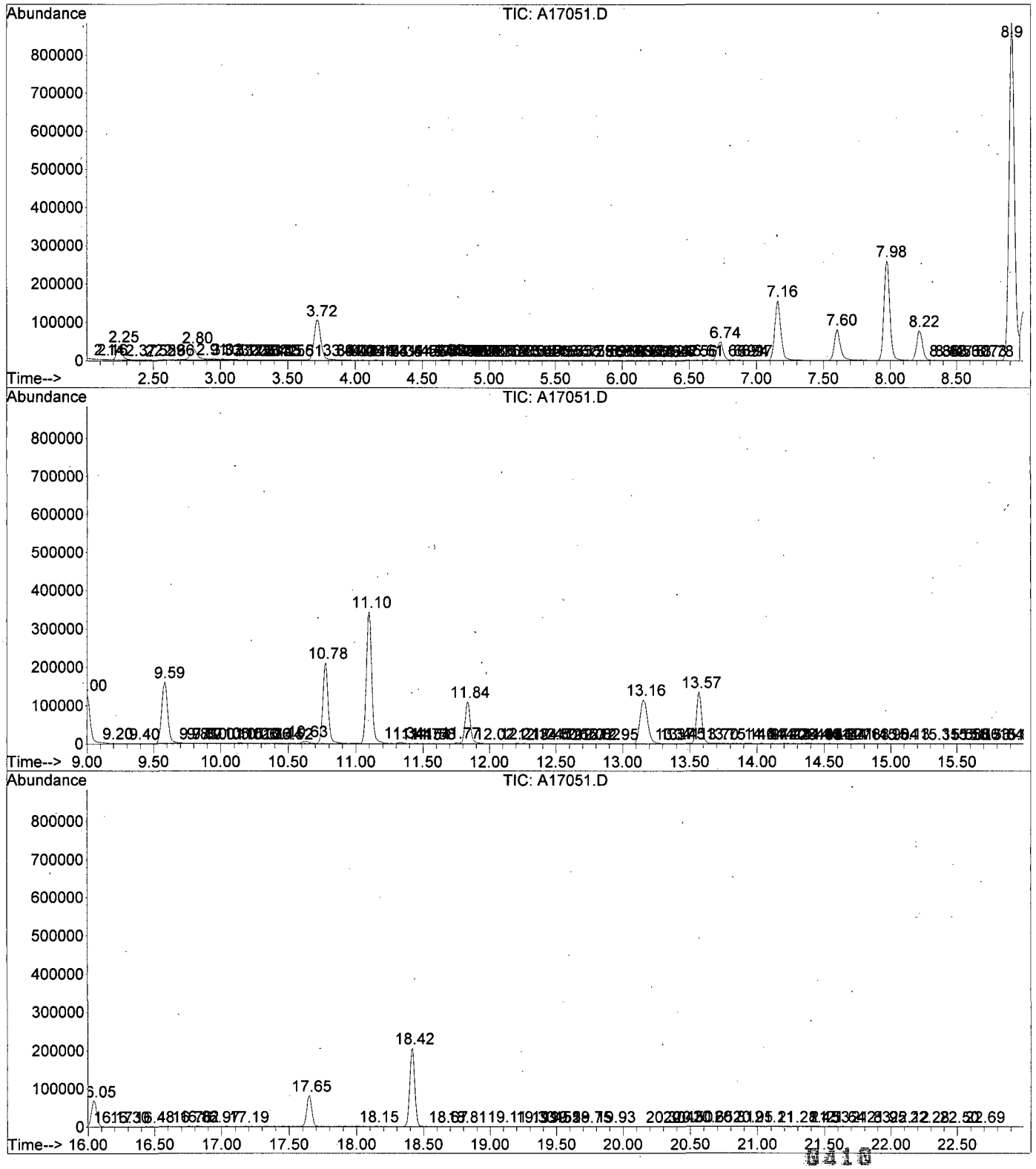
187	20.302	2612	2614	2621	VV	690	17704	0.07%	0.018%
188	20.431	2621	2632	2636	VV 2	824	28326	0.11%	0.028%
189	20.502	2636	2642	2655	VV 2	737	40077	0.16%	0.040%
190	20.653	2655	2663	2681	VV 2	683	58827	0.24%	0.059%
191	20.810	2681	2685	2693	VV 2	682	29807	0.12%	0.030%
192	20.946	2693	2704	2720	VV 2	778	59896	0.24%	0.060%
193	21.111	2720	2727	2746	VV 2	728	61016	0.25%	0.061%
194	21.283	2746	2751	2769	VV 2	587	43269	0.17%	0.043%
195	21.448	2769	2774	2782	VV 2	565	27462	0.11%	0.027%
196	21.527	2782	2785	2797	VV 2	716	28732	0.12%	0.029%
197	21.641	2797	2801	2824	VV 2	815	61791	0.25%	0.061%
198	21.835	2824	2828	2843	VV 2	702	38327	0.15%	0.038%
199	21.949	2843	2844	2861	VV 2	815	38129	0.15%	0.038%
200	22.121	2861	2868	2877	PV 2	907	30642	0.12%	0.030%
201	22.279	2877	2890	2905	VV 2	892	53146	0.21%	0.053%
202	22.501	2905	2921	2942	VV 2	653	52949	0.21%	0.053%
203	22.694	2942	2948	2957	VV	574	15372	0.06%	0.015%

Sum of corrected areas: 100553627

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

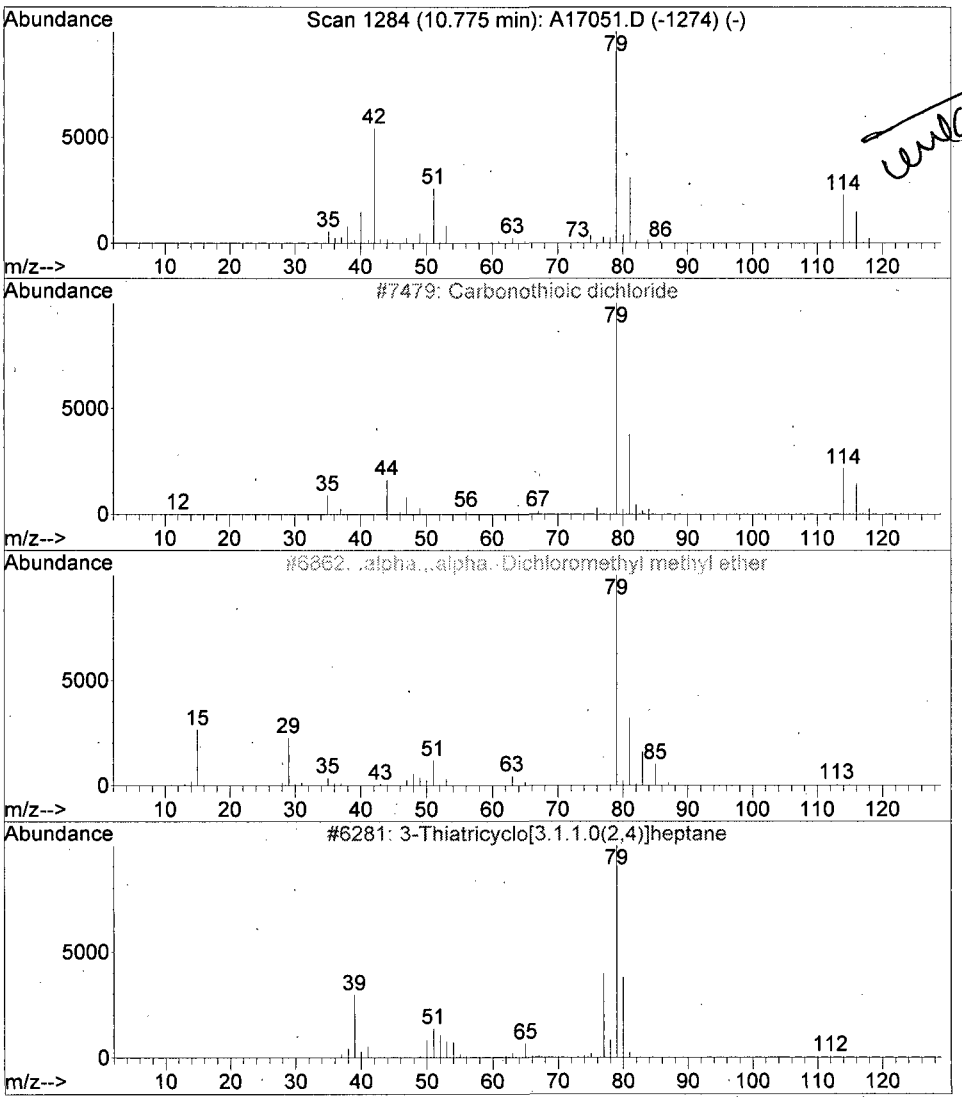
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

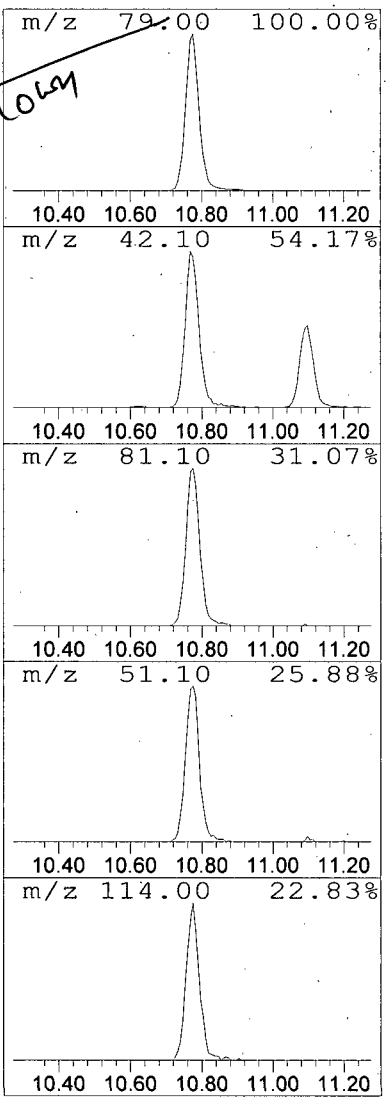
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	7.28 ug/L	5755500	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	38
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
3	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	25
4	n-Propyl chloride	78	C3H7Cl	000540-54-5	9
5	n-Propyl chloride	78	C3H7Cl	000540-54-5	9





6411

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17051.D
Acq On : 11/27/08 11:26 Operator: SB
Sample : F2XF8DL 80X Inst : A-5973
Misc : S-2066.13DL 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.78	7.3	ug/L	5755500	1	9.00	3953590	5.0

0412

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.14

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19507

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	12	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.14

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19507

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	180	E
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.14

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19507

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	22	JB
02	000556-67-2	Cyclotetrasiloxane, octamethy	14.98	2.0	NJ
03		Unknown-02	18.41	0.67	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 28 14:33:00 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration

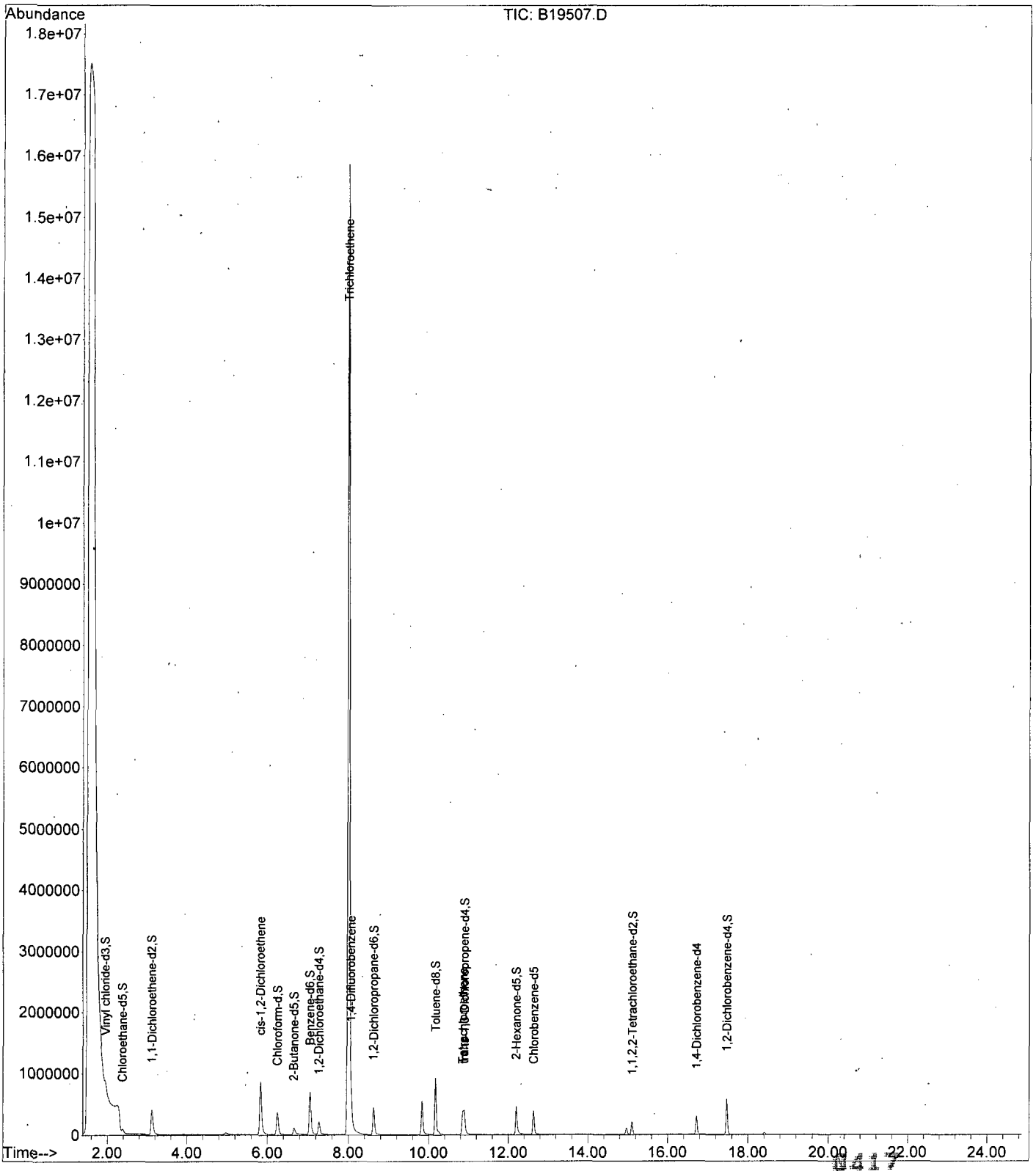
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	4725500	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	3267857	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1201438	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2850820	4.24	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 84.80%			
7) Chloroethane-d5	2.39	69	1454234	4.77	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 95.40%			
10) 1,1-Dichloroethene-d2	3.13	63	5029585	3.72	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 74.40%			
21) 2-Butanone-d5	6.66	46	2872623	40.68	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 81.36%			
24) Chloroform-d	6.25	84	5219731	3.91	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 78.20%			
26) 1,2-Dichloroethane-d4	7.28	65	2530331	4.21	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 84.20%			
32) Benzene-d6	7.06	84	10433078	5.00	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 100.00%			
36) 1,2-Dichloropropane-d6	8.63	67	3133124	4.96	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 99.20%			
41) Toluene-d8	10.18	98	9038359	4.78	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 95.60%			
43) trans-1,3-Dichloropropene-	10.90	79	2751606	4.72	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 94.40%			
47) 2-Hexanone-d5	12.20	63	2331185	58.53	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 117.06%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1638109	4.69	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 93.80%			
63) 1,2-Dichlorobenzene-d4	17.48	152	2266618	4.83	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 96.60%			
Target Compounds						Qvalue
20) cis-1,2-Dichloroethene	5.84	96	6653974	12.09	ug/L	97
34) Trichloroethene	8.00	95	85286835	175.07	ug/L	98
46) Tetrachloroethene	10.86	164	461638	1.07	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

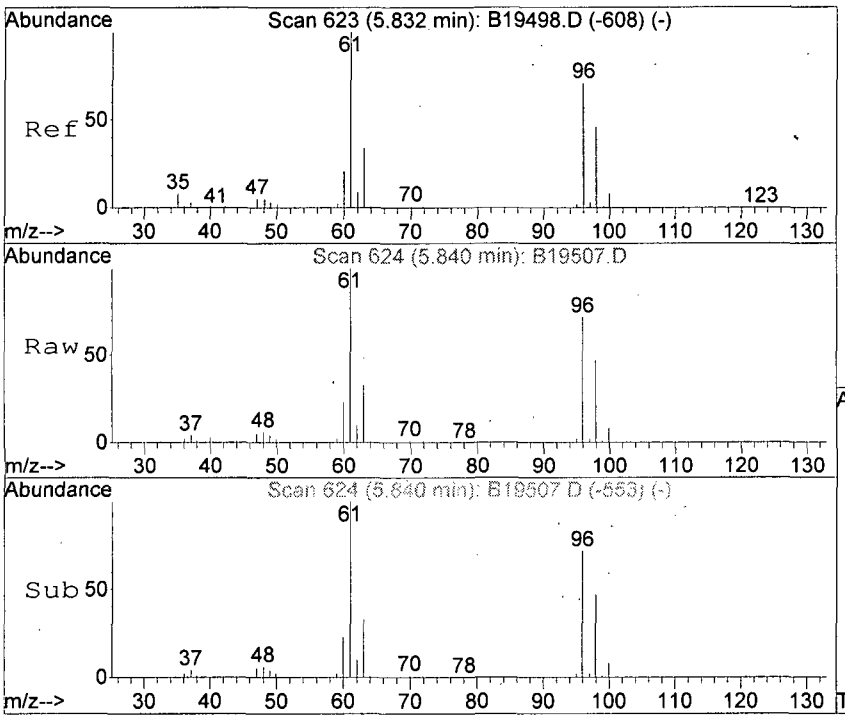
Data File: C:\MSDChem\1\DATA\B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 28 14:33:00 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 06:18:54 2008
Response via : Initial Calibration



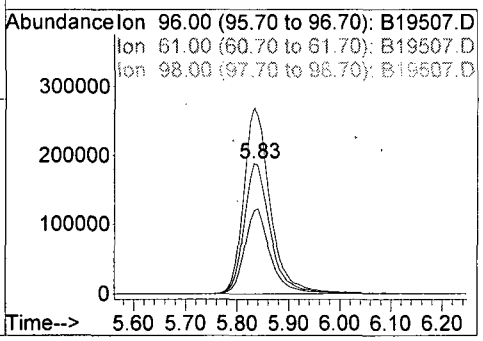
Data File : C:\MSDChem\1\DATA\B19507.D
Acq On : 11/26/08 04:04
Sample : F2XF9
Misc : S-2066.14 25ML
MS Integration Params: LSCINT.E

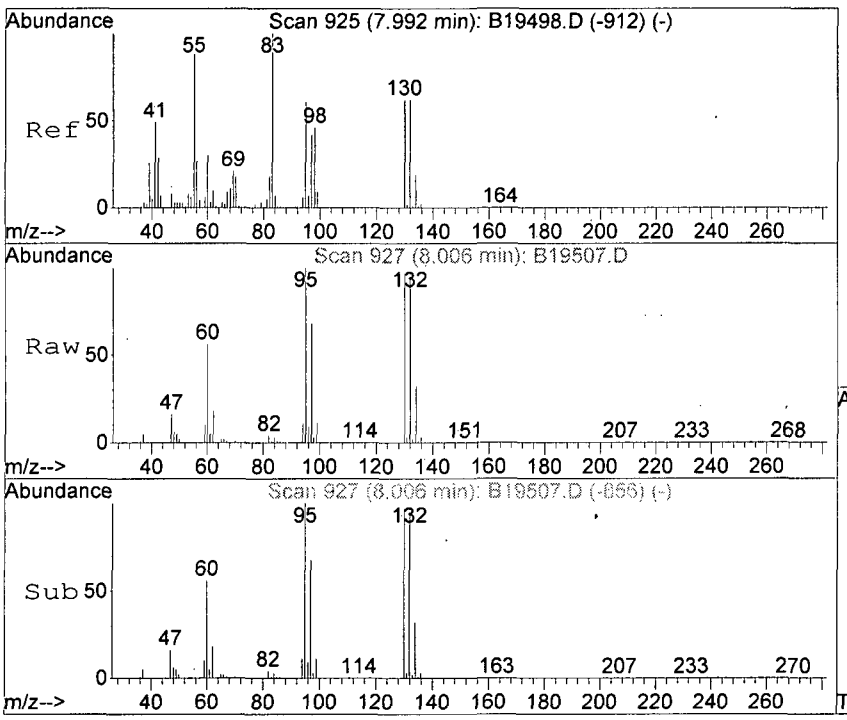
Vial: 14
Operator: SB
Inst : B-5973
Multiplr: 1.00



#20
cis-1,2-Dichloroethene
Concen: 12.09 ug/L
RT: 5.84 min Scan# 624
Delta R.T. 0.01 min
Integration Range:
Scan=609 to 657
R.T.= 5.73 to 6.08 (min)
Tgt Ion: 96 Resp: 6653974

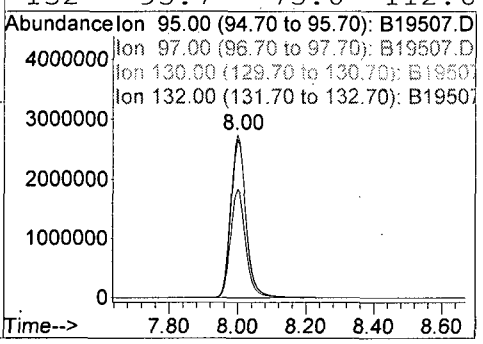
Ion	Ratio	Lower	Upper
96	100		
61	143.0	110.2	165.4
98	63.4	51.4	77.0





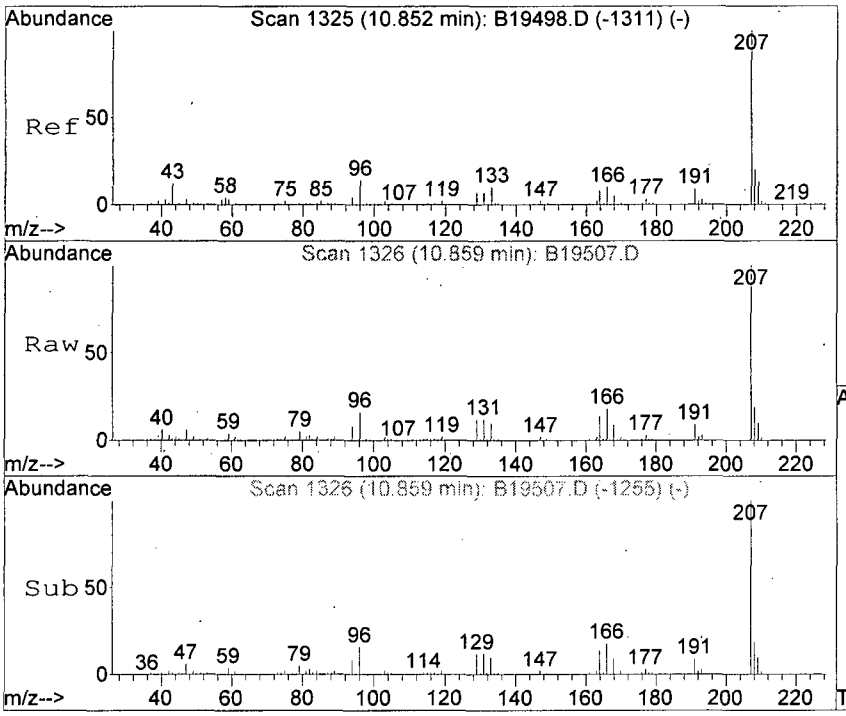
#34
Trichloroethene
Concen: 175.07 ug/L
RT: 8.00 min Scan# 927
Delta R.T. 0.01 min
Integration Range:
Scan=911 to 984
R.T.= 7.89 to 8.41 (min)
Tgt Ion: 95 Resp: 85286835

Ion	Ratio	Lower	Upper
95	100		
97	66.1	51.2	76.8
130	97.5	77.5	116.3
132	95.7	75.0	112.6



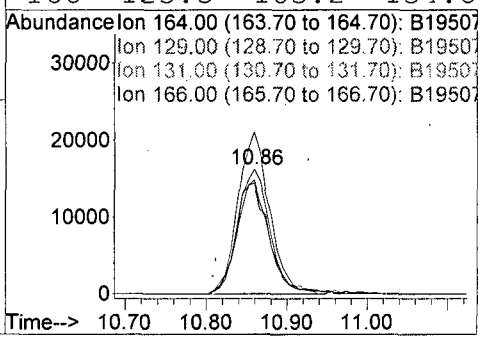
Data File : C:\MSDChem\1\DATA\B19507.D
Acq On : 11/26/08 04:04
Sample : F2XF9
Misc : S-2066.14 25ML
MS Integration Params: LSCINT.E

Vial: 14
Operator: SB
Inst : B-5973
Multiplr: 1.00



#46
Tetrachloroethene
Concen: 1.07 ug/L
RT: 10.86 min Scan# 1326
Delta R.T. 0.01 min
Integration Range:
Scan=1317 to 1348
R.T.= 10.79 to 11.02 (min)
Tgt Ion:164 Resp: 461638

Ion	Ratio	Lower	Upper
164	100		
129	87.9	71.8	107.8
131	87.6	68.6	103.0
166	125.5	103.2	154.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	3	26	111	PV	17401293	2188626653	100.00%	73.632%
2	2.186	111	113	115	PV	40879	745150	0.03%	0.025%
3	2.229	115	119	121	VV	141668	2751647	0.13%	0.093%
4	2.257	121	123	137	VV	209036	9783947	0.45%	0.329%
5	2.393	137	142	155	PV 2	36154	911505	0.04%	0.031%
6	2.501	155	157	159	PV 2	2315	20925	0.00%	0.001%
7	2.529	159	161	164	VV 4	2269	27386	0.00%	0.001%
8	2.572	164	167	174	VV 5	3008	69349	0.00%	0.002%
9	2.651	174	178	179	PV 3	2701	35486	0.00%	0.001%
10	2.686	179	183	186	VV 4	3054	53824	0.00%	0.002%
11	2.722	186	188	190	VV 3	2805	40571	0.00%	0.001%
12	2.772	190	195	197	VV 3	4465	96652	0.00%	0.003%
13	2.815	197	201	210	VV 6	5033	208393	0.01%	0.007%
14	2.894	210	212	214	VV 2	3088	29327	0.00%	0.001%
15	2.915	214	215	221	VV 3	2054	40633	0.00%	0.001%
16	3.001	221	227	232	PV 5	1736	31190	0.00%	0.001%
17	3.051	232	234	235	VV 2	1213	10783	0.00%	0.000%
18	3.130	235	245	274	VV 2	402452	15402185	0.70%	0.518%
19	3.351	274	276	279	VV	4664	39702	0.00%	0.001%
20	3.437	279	288	293	VV 3	3572	125994	0.01%	0.004%
21	3.487	293	295	300	VV 5	1843	36272	0.00%	0.001%
22	3.537	300	302	304	PV 2	1787	18663	0.00%	0.001%
23	3.594	304	310	311	VV 4	1881	39842	0.00%	0.001%
24	3.616	311	313	315	VV 2	2940	34498	0.00%	0.001%
25	3.652	315	318	319	VV 3	1787	19780	0.00%	0.001%
26	3.666	319	320	325	VV 2	2413	38152	0.00%	0.001%
27	3.716	325	327	331	VV 3	1897	30110	0.00%	0.001%
28	3.773	331	335	337	PV 3	1776	24354	0.00%	0.001%
29	3.816	337	341	342	VV 2	1523	18608	0.00%	0.001%
30	3.895	342	352	359	VV 6	6584	266919	0.01%	0.009%
31	3.973	359	363	367	VV 6	5057	135911	0.01%	0.005%
32	4.024	367	370	372	VV 2	4324	69927	0.00%	0.002%
33	4.052	372	374	378	VV 3	3216	61361	0.00%	0.002%
34	4.095	378	380	381	VV 2	2518	29211	0.00%	0.001%
35	4.145	381	387	395	VV 5	7801	289288	0.01%	0.010%
36	4.209	395	396	401	VV 3	2943	48794	0.00%	0.002%
37	4.281	401	406	408	VV	8580	82300	0.00%	0.003%
38	4.338	408	414	415	VV 3	2875	68460	0.00%	0.002%
39	4.367	415	418	422	VV 3	3873	80979	0.00%	0.003%
40	4.410	422	424	427	VV 3	1844	31036	0.00%	0.001%
41	4.445	427	429	436	VV 3	1749	49009	0.00%	0.002%
42	4.531	436	441	445	PV 3	2193	51489	0.00%	0.002%
43	4.574	445	447	452	VV 2	2169	43488	0.00%	0.001%
44	4.624	452	454	457	VV 2	2126	29698	0.00%	0.001%

0420

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.660	457	459	462	VV	2015	26547	0.00%	0.001%
46	4.696	462	464	467	VV 2	2134	28757	0.00%	0.001%
47	4.731	467	469	471	VV	2640	33004	0.00%	0.001%
48	4.760	471	473	476	VV	1481	21182	0.00%	0.001%
49	4.803	476	479	481	VV 2	2630	42679	0.00%	0.001%
50	4.839	481	484	486	VV 3	1805	26647	0.00%	0.001%
51	4.860	486	487	491	VV 2	1821	27297	0.00%	0.001%
52	4.974	491	503	527	VV 4	32372	1657014	0.08%	0.056%
53	5.168	527	530	532	VV 2	3096	38633	0.00%	0.001%
54	5.196	532	534	538	VV	1965	30684	0.00%	0.001%
55	5.239	538	540	541	VV	1675	15307	0.00%	0.001%
56	5.261	541	543	545	VV	8986	69037	0.00%	0.002%
57	5.296	545	548	551	VV 2	1625	25470	0.00%	0.001%
58	5.332	551	553	557	VV 2	2104	29884	0.00%	0.001%
59	5.382	557	560	562	VV 2	1281	22735	0.00%	0.001%
60	5.411	562	564	566	VV	2048	17681	0.00%	0.001%
61	5.446	566	569	575	VV 3	2081	32022	0.00%	0.001%
62	5.504	575	577	579	PV	1580	13988	0.00%	0.000%
63	5.547	579	583	585	VV 3	1946	29234	0.00%	0.001%
64	5.575	585	587	594	VV 2	1832	36713	0.00%	0.001%
65	5.639	594	596	600	VV 2	1691	28085	0.00%	0.001%
66	5.682	600	602	607	VV 2	1129	18563	0.00%	0.001%
67	5.740	607	610	612	VV 2	1810	20465	0.00%	0.001%
68	5.840	612	624	660	VV	859268	30851872	1.41%	1.038%
69	6.140	660	666	671	VV 6	8359	311144	0.01%	0.010%
70	6.254	671	682	698	VV	362387	13270785	0.61%	0.446%
71	6.376	698	699	707	VV 3	9320	262043	0.01%	0.009%
72	6.447	707	709	713	VV	5464	89213	0.00%	0.003%
73	6.483	713	714	720	VV 5	3355	97103	0.00%	0.003%
74	6.540	720	722	729	VV 5	2889	91783	0.00%	0.003%
75	6.662	729	739	761	VV	111809	4825944	0.22%	0.162%
76	6.826	761	762	764	VV 2	8095	116540	0.01%	0.004%
77	6.855	764	766	773	VV 5	7102	224828	0.01%	0.008%
78	6.919	773	775	778	VV 2	4959	81058	0.00%	0.003%
79	6.955	778	780	783	VV 2	4981	102689	0.00%	0.003%
80	7.062	783	795	816	VV	692898	23562524	1.08%	0.793%
81	7.284	816	826	853	VV 2	209454	7963455	0.36%	0.268%
82	7.506	853	857	861	VV 6	4755	121110	0.01%	0.004%
83	7.541	861	862	864	VV 2	3325	42905	0.00%	0.001%
84	7.577	864	867	869	VV 3	3668	56818	0.00%	0.002%
85	7.627	869	874	880	VV 4	2993	130640	0.01%	0.004%
86	7.677	880	881	890	VV 5	4525	131296	0.01%	0.004%
87	7.763	890	893	903	VV 3	2893	119269	0.01%	0.004%
88	7.863	903	907	914	VV 3	3140	101729	0.00%	0.003%
89	8.006	914	927	982	VV	15716768	500467417	22.87%	16.837%
90	8.414	982	984	986	VV 2	7237	108392	0.00%	0.004%
91	8.442	986	988	997	VV 4	6184	267353	0.01%	0.009%

0421

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	8.521	997	999	1003	VV	3	4911	104828	0.00%	0.004%
93	8.635	1003	1015	1040	VV		445430	14900519	0.68%	0.501%
94	8.843	1040	1044	1053	VV	7	7226	313459	0.01%	0.011%
95	8.921	1053	1055	1057	VV	3	5410	84295	0.00%	0.003%
96	8.950	1057	1059	1064	VV	2	4955	103834	0.00%	0.003%
97	9.000	1064	1066	1068	VV	2	3708	50201	0.00%	0.002%
98	9.057	1068	1074	1078	VV		10675	174377	0.01%	0.006%
99	9.107	1078	1081	1087	VV	3	4153	124036	0.01%	0.004%
100	9.172	1087	1090	1092	VV	2	4570	64288	0.00%	0.002%
101	9.200	1092	1094	1101	VV	2	4254	126923	0.01%	0.004%
102	9.279	1101	1105	1110	VV	2	4082	134675	0.01%	0.005%
103	9.329	1110	1112	1117	VV	4	3586	87479	0.00%	0.003%
104	9.400	1117	1122	1133	VV	6	4895	245840	0.01%	0.008%
105	9.493	1133	1135	1139	VV	2	3696	64495	0.00%	0.002%
106	9.529	1139	1140	1142	VV		2252	33164	0.00%	0.001%
107	9.565	1142	1145	1147	VV	2	2338	41290	0.00%	0.001%
108	9.601	1147	1150	1167	VV	4	3685	231656	0.01%	0.008%
109	9.744	1167	1170	1172	VV	2	2680	46874	0.00%	0.002%
110	9.837	1172	1183	1210	VV	2	542321	16455364	0.75%	0.554%
111	10.065	1210	1215	1220	VV	6	6119	225092	0.01%	0.008%
112	10.173	1220	1230	1259	VV		904818	26517495	1.21%	0.892%
113	10.423	1259	1265	1271	VV	3	5278	235289	0.01%	0.008%
114	10.473	1271	1272	1274	VV	2	4768	56359	0.00%	0.002%
115	10.502	1274	1276	1278	VV		3621	45184	0.00%	0.002%
116	10.545	1278	1282	1283	VV	3	4764	92179	0.00%	0.003%
117	10.566	1283	1285	1287	VV	2	4798	59808	0.00%	0.002%
118	10.587	1287	1288	1294	VV	2	3809	101864	0.00%	0.003%
119	10.652	1294	1297	1301	VV	2	4284	100509	0.00%	0.003%
120	10.702	1301	1304	1307	VV		10920	134632	0.01%	0.005%
121	10.745	1307	1310	1312	VV	3	3862	62590	0.00%	0.002%
122	10.773	1312	1314	1316	VV		4323	58240	0.00%	0.002%
123	10.866	1316	1327	1328	VV		392467	9212873	0.42%	0.310%
124	10.895	1328	1331	1354	VV		399406	12484194	0.57%	0.420%
125	11.074	1354	1356	1362	VV	4	7399	236931	0.01%	0.008%
126	11.159	1362	1368	1382	VV	4	9220	620553	0.03%	0.021%
127	11.267	1382	1383	1385	VV		5483	71573	0.00%	0.002%
128	11.295	1385	1387	1403	VV	4	5089	293498	0.01%	0.010%
129	11.424	1403	1405	1407	VV	2	4217	65769	0.00%	0.002%
130	11.453	1407	1409	1416	VV		3749	107983	0.00%	0.004%
131	11.567	1416	1425	1427	VV	5	4522	167960	0.01%	0.006%
132	11.588	1427	1428	1432	VV	2	3706	81049	0.00%	0.003%
133	11.639	1432	1435	1436	VV	2	4105	60773	0.00%	0.002%
134	11.660	1436	1438	1440	VV	3	3692	43892	0.00%	0.001%
135	11.689	1440	1442	1443	VV	2	4053	50275	0.00%	0.002%
136	11.753	1443	1451	1454	VV	3	4496	163243	0.01%	0.005%
137	11.796	1454	1457	1465	VV	2	3383	147090	0.01%	0.005%
138	11.874	1465	1468	1472	VV	2	3758	94379	0.00%	0.003%
139	11.925	1472	1475	1478	VV	3	4336	94135	0.00%	0.003%

0422

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.967	1478	1481	1486	VV	4	3436	93859	0.00%	0.003%
141	12.010	1486	1487	1491	VV	2	4187	71560	0.00%	0.002%
142	12.075	1491	1496	1504	VV	4	3958	190918	0.01%	0.006%
143	12.203	1504	1514	1534	VV		452373	13510632	0.62%	0.455%
144	12.354	1534	1535	1538	VV	3	11669	165980	0.01%	0.006%
145	12.375	1538	1538	1546	VV	5	9909	304592	0.01%	0.010%
146	12.446	1546	1548	1553	VV	4	7472	201706	0.01%	0.007%
147	12.497	1553	1555	1565	VV	4	6785	287823	0.01%	0.010%
148	12.640	1565	1575	1592	VV		386687	11174877	0.51%	0.376%
149	12.761	1592	1592	1600	VV	3	7692	252808	0.01%	0.009%
150	12.840	1600	1603	1607	VV	3	6253	160940	0.01%	0.005%
151	12.883	1607	1609	1614	VV	3	6159	134215	0.01%	0.005%
152	12.947	1614	1618	1622	VV	4	4802	149735	0.01%	0.005%
153	13.033	1622	1630	1635	VV	7	7871	343826	0.02%	0.012%
154	13.083	1635	1637	1639	VV	2	4789	62920	0.00%	0.002%
155	13.104	1639	1640	1643	VV	2	4001	68904	0.00%	0.002%
156	13.140	1643	1645	1656	VV	4	5361	223852	0.01%	0.008%
157	13.247	1656	1660	1661	VV		4664	87760	0.00%	0.003%
158	13.269	1661	1663	1667	VV	3	4213	98994	0.00%	0.003%
159	13.333	1667	1672	1676	VV	4	4605	143414	0.01%	0.005%
160	13.376	1676	1678	1681	VV	2	4229	73695	0.00%	0.002%
161	13.412	1681	1683	1690	VV		9119	185908	0.01%	0.006%
162	13.490	1690	1694	1700	VV	3	4468	147299	0.01%	0.005%
163	13.555	1700	1703	1706	VV	3	3598	72338	0.00%	0.002%
164	13.591	1706	1708	1710	VV	3	4581	73536	0.00%	0.002%
165	13.619	1710	1712	1716	VV	3	3982	91599	0.00%	0.003%
166	13.769	1716	1733	1735	VV	4	5664	342548	0.02%	0.012%
167	13.798	1735	1737	1739	VV	3	5300	84807	0.00%	0.003%
168	13.855	1739	1745	1751	VV	4	5024	206250	0.01%	0.007%
169	13.919	1751	1754	1756	VV	2	4560	79820	0.00%	0.003%
170	13.962	1756	1760	1765	VV	2	3923	120424	0.01%	0.004%
171	14.012	1765	1767	1769	VV	2	4207	67839	0.00%	0.002%
172	14.062	1769	1774	1779	VV		4328	150908	0.01%	0.005%
173	14.112	1779	1781	1783	VV	3	3967	62189	0.00%	0.002%
174	14.141	1783	1785	1790	VV	2	4088	102146	0.00%	0.003%
175	14.213	1790	1795	1797	VV	3	3892	107076	0.00%	0.004%
176	14.234	1797	1798	1800	VV		4968	61869	0.00%	0.002%
177	14.313	1800	1809	1817	VV	3	5182	282788	0.01%	0.010%
178	14.377	1817	1818	1827	VV	2	3794	136770	0.01%	0.005%
179	14.456	1827	1829	1831	VV		4288	65349	0.00%	0.002%
180	14.484	1831	1833	1835	VV	2	3990	54565	0.00%	0.002%
181	14.506	1835	1836	1841	VV	2	3957	83104	0.00%	0.003%
182	14.556	1841	1843	1850	VV		4915	136814	0.01%	0.005%
183	14.620	1850	1852	1856	VV	2	3941	87727	0.00%	0.003%
184	14.663	1856	1858	1867	VV	2	4466	178726	0.01%	0.006%
185	14.742	1867	1869	1875	VV	3	4243	112268	0.01%	0.004%
186	14.799	1875	1877	1882	VV	2	4350	125842	0.01%	0.004%

0423

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.863	1882	1886	1892	VV 4	4085	152234	0.01%	0.005%
188	14.978	1892	1902	1912	VV 2	104641	3175477	0.15%	0.107%
189	15.114	1912	1921	1933	VV	208567	5873784	0.27%	0.198%
190	15.221	1933	1936	1948	VV 6	6837	331578	0.02%	0.011%
191	15.321	1948	1950	1955	VV	4972	124997	0.01%	0.004%
192	15.371	1955	1957	1959	VV 2	4137	62133	0.00%	0.002%
193	15.435	1959	1966	1968	VV 4	5024	148293	0.01%	0.005%
194	15.471	1968	1971	1973	VV 2	4326	83391	0.00%	0.003%
195	15.500	1973	1975	1978	VV	4495	76666	0.00%	0.003%
196	15.564	1978	1984	1986	VV 2	4386	132138	0.01%	0.004%
197	15.600	1986	1989	1993	PV	4491	94923	0.00%	0.003%
198	15.671	1993	1999	2003	VV 3	4186	166968	0.01%	0.006%
199	15.728	2003	2007	2010	VV 2	3928	100492	0.00%	0.003%
200	15.757	2010	2011	2013	VV	4707	57738	0.00%	0.002%
201	15.786	2013	2015	2017	VV	3966	52626	0.00%	0.002%
202	15.807	2017	2018	2023	VV 2	3843	105767	0.00%	0.004%
203	15.886	2023	2029	2035	VV 2	4266	189105	0.01%	0.006%
204	15.986	2035	2043	2052	VV 3	4895	295755	0.01%	0.010%
205	16.064	2052	2054	2060	VV 2	4717	142697	0.01%	0.005%
206	16.122	2060	2062	2064	VV 3	4570	71702	0.00%	0.002%
207	16.157	2064	2067	2070	VV 3	3767	76866	0.00%	0.003%
208	16.300	2070	2087	2098	VV 6	9237	593147	0.03%	0.020%
209	16.386	2098	2099	2101	VV 2	3722	44339	0.00%	0.001%
210	16.422	2101	2104	2106	VV 2	3572	69706	0.00%	0.002%
211	16.451	2106	2108	2110	VV	3707	47407	0.00%	0.002%
212	16.536	2110	2120	2122	VV 2	4139	178467	0.01%	0.006%
213	16.565	2122	2124	2128	VV 2	5609	91932	0.00%	0.003%
214	16.608	2128	2130	2134	VV 2	4953	102048	0.00%	0.003%
215	16.651	2134	2136	2137	VV	4629	51538	0.00%	0.002%
216	16.722	2137	2146	2161	VV	294269	8099123	0.37%	0.272%
217	16.858	2161	2165	2168	VV 4	5751	148949	0.01%	0.005%
218	16.894	2168	2170	2171	VV 2	5766	77790	0.00%	0.003%
219	16.915	2171	2173	2180	VV 4	5132	160362	0.01%	0.005%
220	16.980	2180	2182	2185	VV	4181	66747	0.00%	0.002%
221	17.015	2185	2187	2189	VV	4437	62102	0.00%	0.002%
222	17.044	2189	2191	2195	VV 2	4227	96371	0.00%	0.003%
223	17.087	2195	2197	2200	VV 2	3758	76722	0.00%	0.003%
224	17.130	2200	2203	2216	VV 2	4154	257980	0.01%	0.009%
225	17.237	2216	2218	2229	VV 2	3523	190951	0.01%	0.006%
226	17.330	2229	2231	2233	VV 2	4729	65415	0.00%	0.002%
227	17.380	2233	2238	2240	VV 3	4168	115320	0.01%	0.004%
228	17.480	2240	2252	2265	VV	574834	15123718	0.69%	0.509%
229	17.587	2265	2267	2269	VV 2	7800	98604	0.00%	0.003%
230	17.609	2269	2270	2279	VV 5	5659	204026	0.01%	0.007%
231	17.688	2279	2281	2286	VV 4	5712	137197	0.01%	0.005%
232	17.752	2286	2290	2292	VV 2	4634	103445	0.00%	0.003%
233	17.781	2292	2294	2299	VV 3	4184	101111	0.00%	0.003%
234	17.823	2299	2300	2306	VV 3	4289	120233	0.01%	0.004%

0424

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	17.909	2306	2312	2316	VV 3	4687	161516	0.01%	0.005%
236	17.959	2316	2319	2321	VV 2	3889	78522	0.00%	0.003%
237	17.988	2321	2323	2328	VV 3	3622	97917	0.00%	0.003%
238	18.038	2328	2330	2332	VV	3271	43348	0.00%	0.001%
239	18.067	2332	2334	2337	VV 2	4203	79737	0.00%	0.003%
240	18.131	2337	2343	2345	VV 2	4695	132088	0.01%	0.004%
241	18.160	2345	2347	2350	VV 2	3616	67797	0.00%	0.002%
242	18.202	2350	2353	2359	VV 4	3858	132551	0.01%	0.004%
243	18.260	2359	2361	2366	VV 3	3502	91577	0.00%	0.003%
244	18.310	2366	2368	2369	VV	3446	35386	0.00%	0.001%
245	18.410	2369	2382	2395	VV 3	29652	1090473	0.05%	0.037%
246	18.517	2395	2397	2399	VV	3795	45659	0.00%	0.002%
247	18.538	2399	2400	2402	VV 2	3349	42384	0.00%	0.001%
248	18.589	2402	2407	2408	VV 2	3654	87493	0.00%	0.003%
249	18.610	2408	2410	2415	VV 2	3308	76122	0.00%	0.003%
250	18.660	2415	2417	2421	VV	4182	86329	0.00%	0.003%
251	18.696	2421	2422	2424	VV	3164	35735	0.00%	0.001%
252	18.739	2424	2428	2429	VV 3	3793	73390	0.00%	0.002%
253	18.767	2429	2432	2436	VV 2	4058	85192	0.00%	0.003%
254	18.825	2436	2440	2442	VV 2	3938	85310	0.00%	0.003%
255	18.853	2442	2444	2448	VV 3	3596	73431	0.00%	0.002%
256	18.910	2448	2452	2454	VV 2	3852	90439	0.00%	0.003%
257	18.953	2454	2458	2460	VV 2	3617	72568	0.00%	0.002%
258	18.982	2460	2462	2469	VV 3	4003	128103	0.01%	0.004%
259	19.046	2469	2471	2475	VV 2	3615	71361	0.00%	0.002%
260	19.089	2475	2477	2478	VV	3094	22311	0.00%	0.001%
261	19.132	2478	2483	2484	VV 2	3884	86387	0.00%	0.003%
262	19.168	2484	2488	2492	VV 2	3695	100208	0.00%	0.003%
263	19.232	2492	2497	2500	VV 2	3627	114636	0.01%	0.004%
264	19.289	2500	2505	2509	VV 3	3974	134681	0.01%	0.005%
265	19.332	2509	2511	2516	VV 2	3147	69188	0.00%	0.002%
266	19.382	2516	2518	2521	VV 3	3250	58897	0.00%	0.002%
267	19.411	2521	2522	2524	VV	3572	45830	0.00%	0.002%
268	19.439	2524	2526	2531	VV 2	3218	77368	0.00%	0.003%
269	19.482	2531	2532	2534	VV 2	3269	44225	0.00%	0.001%
270	19.518	2534	2537	2544	VV 2	3439	98383	0.00%	0.003%
271	19.582	2544	2546	2547	VV 2	2774	34939	0.00%	0.001%
272	19.611	2547	2550	2553	VV 2	4429	86319	0.00%	0.003%
273	19.654	2553	2556	2563	VV	4267	121720	0.01%	0.004%
274	19.718	2563	2565	2568	VV 3	3347	69140	0.00%	0.002%
275	19.775	2568	2573	2576	VV	3619	96348	0.00%	0.003%
276	19.818	2576	2579	2581	VV	3723	68913	0.00%	0.002%
277	19.854	2581	2584	2594	VV 3	3492	170505	0.01%	0.006%
278	19.961	2594	2599	2604	VV 2	3101	103698	0.00%	0.003%
279	20.011	2604	2606	2608	VV	3432	51372	0.00%	0.002%
280	20.040	2608	2610	2611	VV	4295	39409	0.00%	0.001%
281	20.076	2611	2615	2617	VV 2	3755	72755	0.00%	0.002%

0425

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	20.112	2617	2620	2625	VV 2	3276	93335	0.00%	0.003%
283	20.176	2625	2629	2632	VV 2	2984	76633	0.00%	0.003%
284	20.219	2632	2635	2639	VV 2	3628	90029	0.00%	0.003%
285	20.290	2639	2645	2648	VV 3	2957	98906	0.00%	0.003%
286	20.319	2648	2649	2654	VV 2	3174	78643	0.00%	0.003%
287	20.405	2654	2661	2666	VV 4	3590	151039	0.01%	0.005%
288	20.476	2666	2671	2677	VV	3194	104760	0.00%	0.004%
289	20.541	2677	2680	2690	VV 3	4000	180630	0.01%	0.006%
290	20.626	2690	2692	2699	VV 2	3100	94692	0.00%	0.003%
291	20.684	2699	2700	2702	VV	3208	35716	0.00%	0.001%
292	20.712	2702	2704	2707	VV 3	3133	66618	0.00%	0.002%
293	20.748	2707	2709	2711	VV 2	3370	52191	0.00%	0.002%
294	20.777	2711	2713	2715	VV 2	2994	48583	0.00%	0.002%
295	20.812	2715	2718	2723	VV 2	3412	94180	0.00%	0.003%
296	20.862	2723	2725	2726	VV	3467	44348	0.00%	0.001%
297	20.898	2726	2730	2735	VV 2	3457	110980	0.01%	0.004%
298	20.955	2735	2738	2740	VV	3273	49439	0.00%	0.002%
299	21.034	2740	2749	2750	VV 2	3238	113072	0.01%	0.004%
300	21.055	2750	2752	2755	VV 2	2558	47016	0.00%	0.002%
301	21.113	2755	2760	2764	VV 3	3282	99171	0.00%	0.003%
302	21.155	2764	2766	2768	VV 2	3096	41480	0.00%	0.001%
303	21.184	2768	2770	2772	VV	3188	33581	0.00%	0.001%
304	21.234	2772	2777	2779	VV 2	2877	71305	0.00%	0.002%
305	21.256	2779	2780	2782	VV	3136	34462	0.00%	0.001%
306	21.298	2782	2786	2789	VV 3	4002	100015	0.00%	0.003%
307	21.327	2789	2790	2794	VV 3	2680	59015	0.00%	0.002%
308	21.391	2794	2799	2801	VV 2	3012	77339	0.00%	0.003%
309	21.420	2801	2803	2804	VV	3184	37478	0.00%	0.001%
310	21.449	2804	2807	2812	VV 3	3359	69984	0.00%	0.002%
311	21.506	2812	2815	2817	VV 2	2827	54309	0.00%	0.002%
312	21.534	2817	2819	2821	VV 2	2841	39246	0.00%	0.001%
313	21.577	2821	2825	2829	VV 3	3243	85699	0.00%	0.003%
314	21.620	2829	2831	2835	VV 2	2837	63243	0.00%	0.002%
315	21.713	2835	2844	2851	VV 5	4929	208927	0.01%	0.007%
316	21.785	2851	2854	2865	VV 4	3300	170702	0.01%	0.006%
317	21.878	2865	2867	2872	VV	3063	66663	0.00%	0.002%
318	21.928	2872	2874	2875	VV 2	3164	37179	0.00%	0.001%
319	21.949	2875	2877	2882	VV	3032	83360	0.00%	0.003%
320	21.999	2882	2884	2887	VV 2	3188	47981	0.00%	0.002%
321	22.056	2887	2892	2895	VV 3	2869	86405	0.00%	0.003%
322	22.092	2895	2897	2901	VV 2	3310	63084	0.00%	0.002%
323	22.157	2901	2906	2908	VV 2	2610	62936	0.00%	0.002%
324	22.185	2908	2910	2912	VV	3314	48245	0.00%	0.002%
325	22.207	2912	2913	2920	VV 3	3302	92136	0.00%	0.003%
326	22.271	2920	2922	2925	VV 2	2550	51398	0.00%	0.002%
327	22.314	2925	2928	2932	VV 3	3543	81107	0.00%	0.003%
328	22.357	2932	2934	2938	VV 3	3056	62730	0.00%	0.002%
329	22.407	2938	2941	2943	VV 2	2960	48192	0.00%	0.002%

0428

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	22.435	2943	2945	2955	VV 2	3157	140854	0.01%	0.005%
331	22.521	2955	2957	2958	VV	2620	30167	0.00%	0.001%
332	22.543	2958	2960	2963	VV 2	3558	49227	0.00%	0.002%
333	22.571	2963	2964	2966	VV	3249	36958	0.00%	0.001%
334	22.593	2966	2967	2972	VV 3	2432	55755	0.00%	0.002%
335	22.643	2972	2974	2978	VV 2	2786	64628	0.00%	0.002%
336	22.707	2978	2983	2987	VV 2	3285	94334	0.00%	0.003%
337	22.750	2987	2989	2991	VV 2	2638	39324	0.00%	0.001%
338	22.786	2991	2994	2996	VV	3739	53797	0.00%	0.002%
339	22.821	2996	2999	3001	VV	3485	60421	0.00%	0.002%
340	22.864	3001	3005	3008	VV 2	3077	69303	0.00%	0.002%
341	22.900	3008	3010	3013	VV	2729	46035	0.00%	0.002%
342	22.936	3013	3015	3017	VV	3249	38468	0.00%	0.001%
343	22.979	3017	3021	3025	VV	4508	89389	0.00%	0.003%
344	23.065	3025	3033	3036	VV 3	2945	115719	0.01%	0.004%
345	23.100	3036	3038	3040	VV 2	2716	33288	0.00%	0.001%
346	23.129	3040	3042	3046	VV 3	3163	59025	0.00%	0.002%
347	23.172	3046	3048	3050	VV 2	3329	38522	0.00%	0.001%
348	23.222	3050	3055	3058	VV 3	3278	79074	0.00%	0.003%
349	23.265	3058	3061	3064	VV 2	3169	73869	0.00%	0.002%
350	23.315	3064	3068	3072	VV 2	2844	72699	0.00%	0.002%
351	23.358	3072	3074	3081	VV 3	2895	83054	0.00%	0.003%
352	23.436	3081	3085	3096	VV 2	2812	141995	0.01%	0.005%
353	23.529	3096	3098	3100	VV 2	2690	45668	0.00%	0.002%
354	23.558	3100	3102	3115	VV 3	2966	151946	0.01%	0.005%
355	23.694	3115	3121	3124	VV 2	3159	87867	0.00%	0.003%
356	23.730	3124	3126	3128	VV 2	2776	44735	0.00%	0.002%
357	23.758	3128	3130	3133	VV 2	2914	54799	0.00%	0.002%
358	23.801	3133	3136	3138	VV 2	3361	64633	0.00%	0.002%
359	23.837	3138	3141	3143	VV 2	3977	61883	0.00%	0.002%
360	23.865	3143	3145	3148	VV 4	3271	53232	0.00%	0.002%
361	23.901	3148	3150	3151	VV 2	3110	36313	0.00%	0.001%
362	23.923	3151	3153	3155	VV 2	2954	39156	0.00%	0.001%
363	23.944	3155	3156	3161	VV 2	3263	72518	0.00%	0.002%
364	24.016	3161	3166	3168	VV	7350	90558	0.00%	0.003%
365	24.044	3168	3170	3172	VV	2910	42740	0.00%	0.001%
366	24.080	3172	3175	3178	VV 3	2713	53022	0.00%	0.002%
367	24.130	3178	3182	3184	VV 2	3039	64317	0.00%	0.002%
368	24.159	3184	3186	3188	VV 2	3181	45843	0.00%	0.002%
369	24.201	3188	3192	3193	VV 3	3309	62345	0.00%	0.002%
370	24.230	3193	3196	3200	VV 3	3233	74734	0.00%	0.003%
371	24.287	3200	3204	3206	VV 2	3424	78915	0.00%	0.003%
372	24.309	3206	3207	3210	VV 2	2657	37611	0.00%	0.001%
373	24.344	3210	3212	3213	VV	3199	37801	0.00%	0.001%
374	24.359	3213	3214	3217	VV 2	2862	40142	0.00%	0.001%
375	24.402	3217	3220	3224	VV 2	2717	69950	0.00%	0.002%
376	24.445	3224	3226	3228	VV 2	3011	41885	0.00%	0.001%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

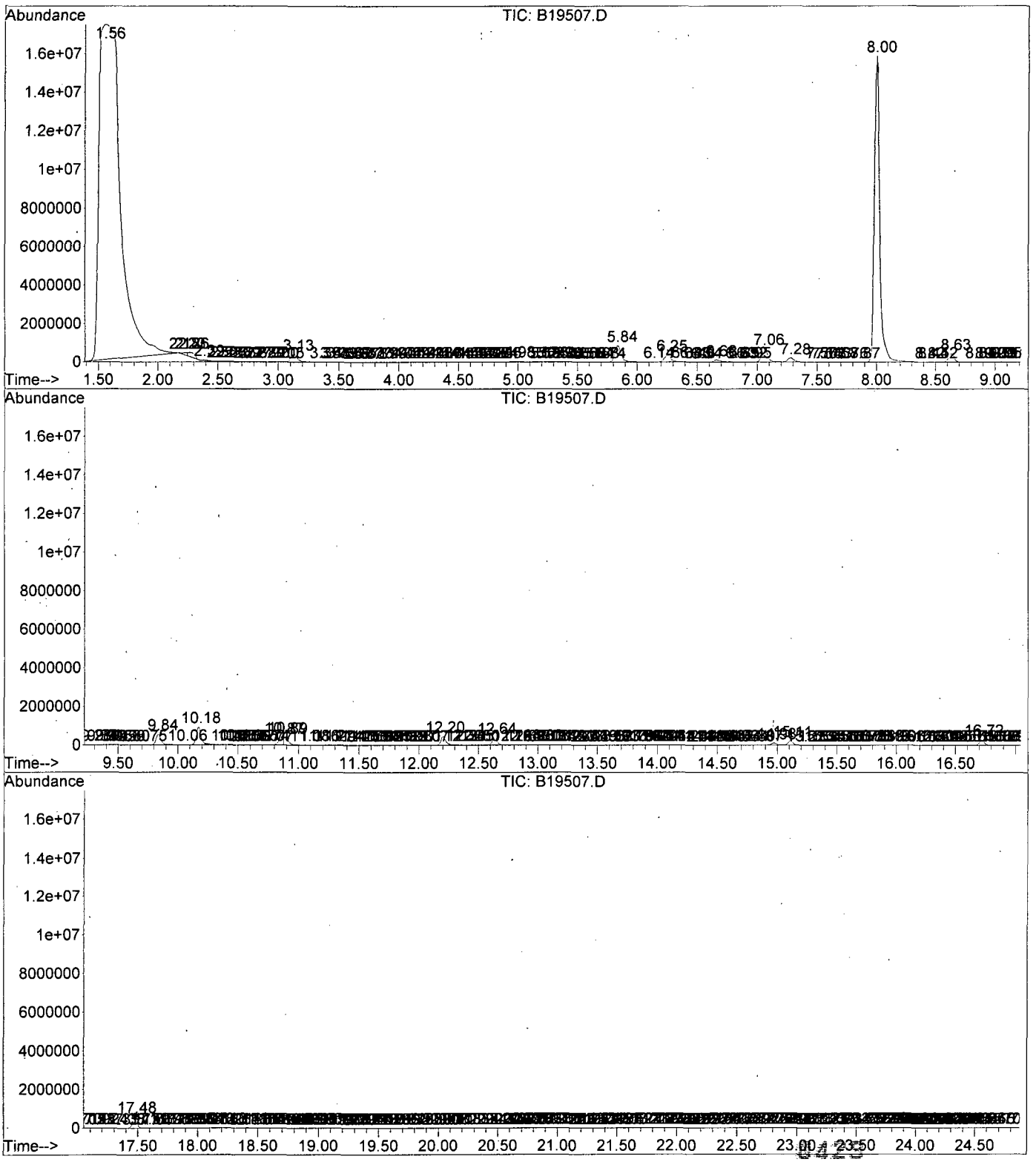
377	24.473	3228	3230	3231	VV	2615	32887	0.00%	0.001%
378	24.502	3231	3234	3238	VV 2	3699	78790	0.00%	0.003%
379	24.545	3238	3240	3242	VV	3246	44655	0.00%	0.002%
380	24.573	3242	3244	3252	PV	3734	101707	0.00%	0.003%
381	24.659	3252	3256	3260	VV 4	3003	83980	0.00%	0.003%
382	24.702	3260	3262	3267	VV 2	2112	49574	0.00%	0.002%
383	24.759	3267	3270	3278	VV 3	1132	17844	0.00%	0.001%

Sum of corrected areas: 2972403399

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

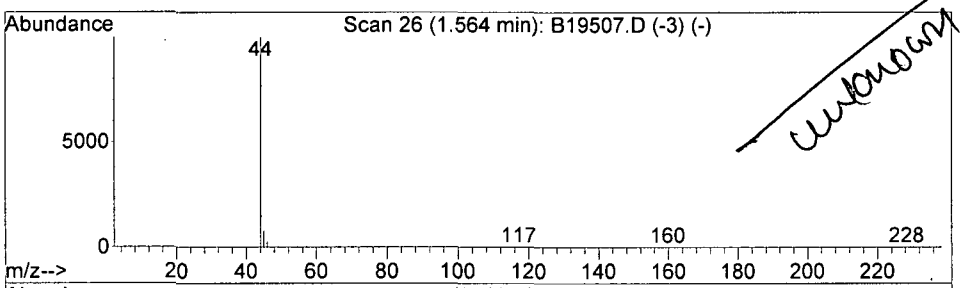
****

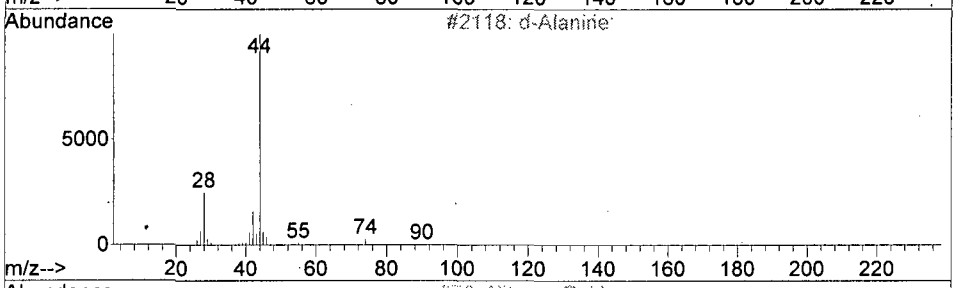
Peak Number 1 d-Alanine Concentration Rank 1

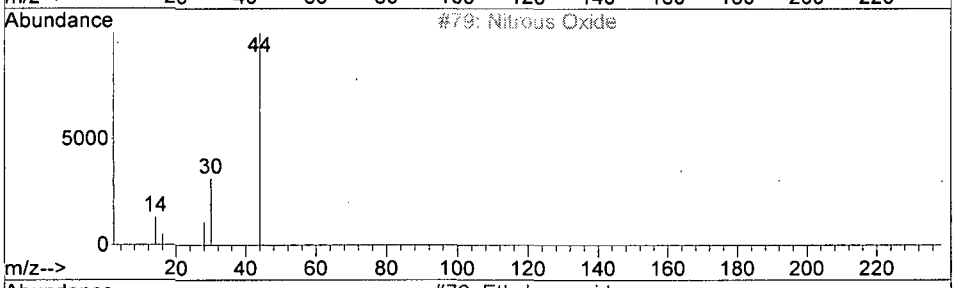
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	21.87 ug/L	2188630000	1,4-Difluorobenzene	8.07

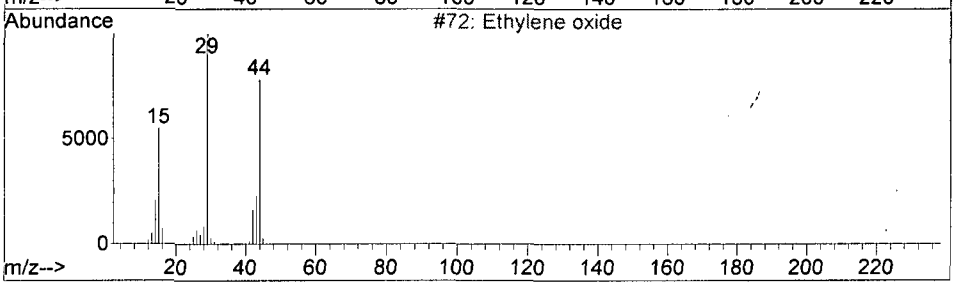
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	d-Alanine	89	C3H7NO2	000338-69-2	2
2	Nitrous Oxide	44	N2O	010024-97-2	2
3	Ethylene oxide	44	C2H4O	000075-21-8	2
4	Carbon dioxide	44	CO2	000124-38-9	2
5	Carbon dioxide	44	CO2	000124-38-9	2

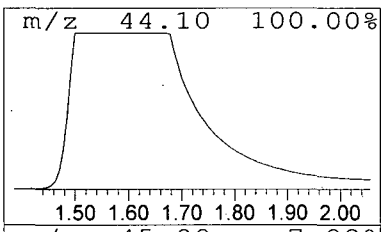
unknown

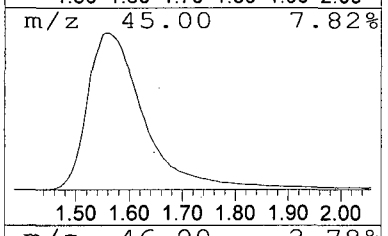


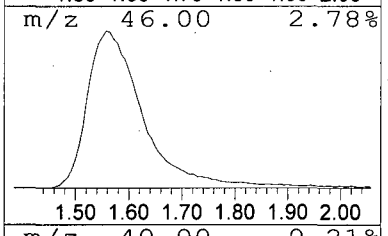


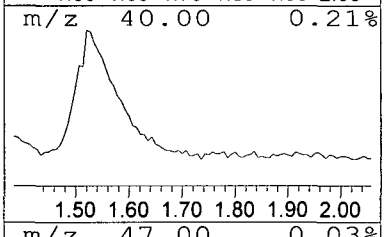


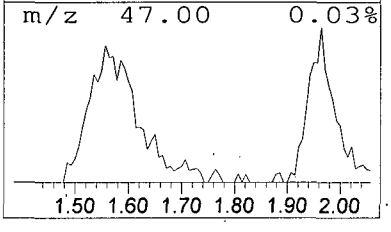












0430

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

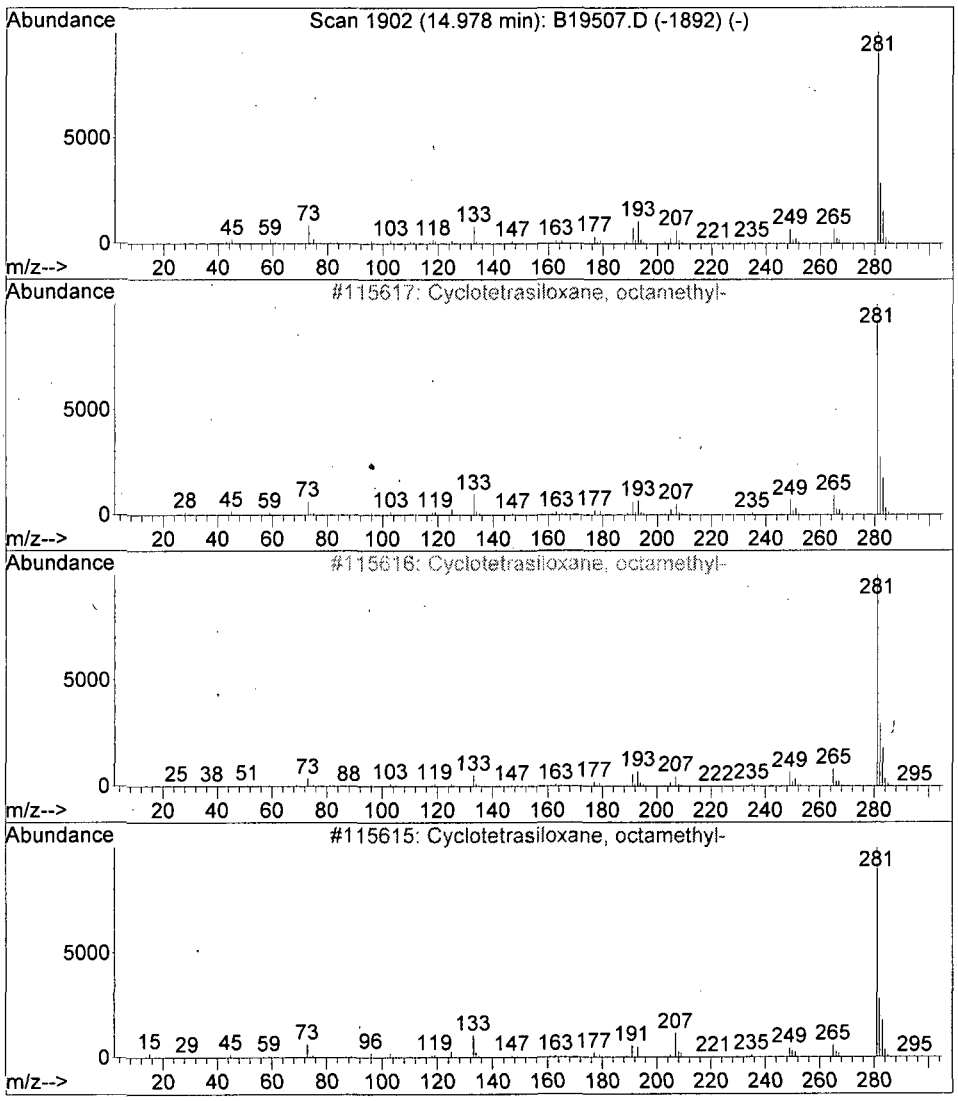
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

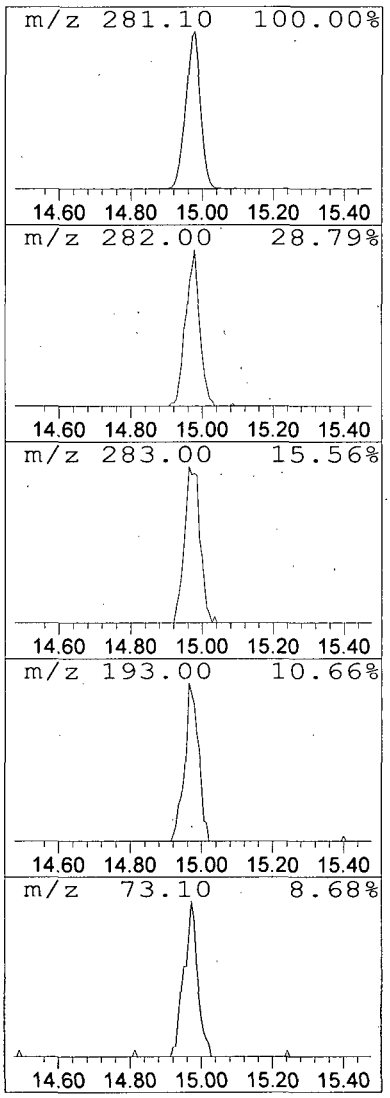
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 Cyclotetrasiloxane, octamet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	1.96 ug/L	3175480	1,4-Dichlorobenzene-d4	16.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	91
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	91
3	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	78
4	7H-Dibenzo[b,g]carbazole, 7-methyl-	281	C21H15N	003557-49-1	64
5	Benzoic acid, 4-methyl-2-trimeth...	296	C14H24O3Si2	1000153-59-3	59





0431

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

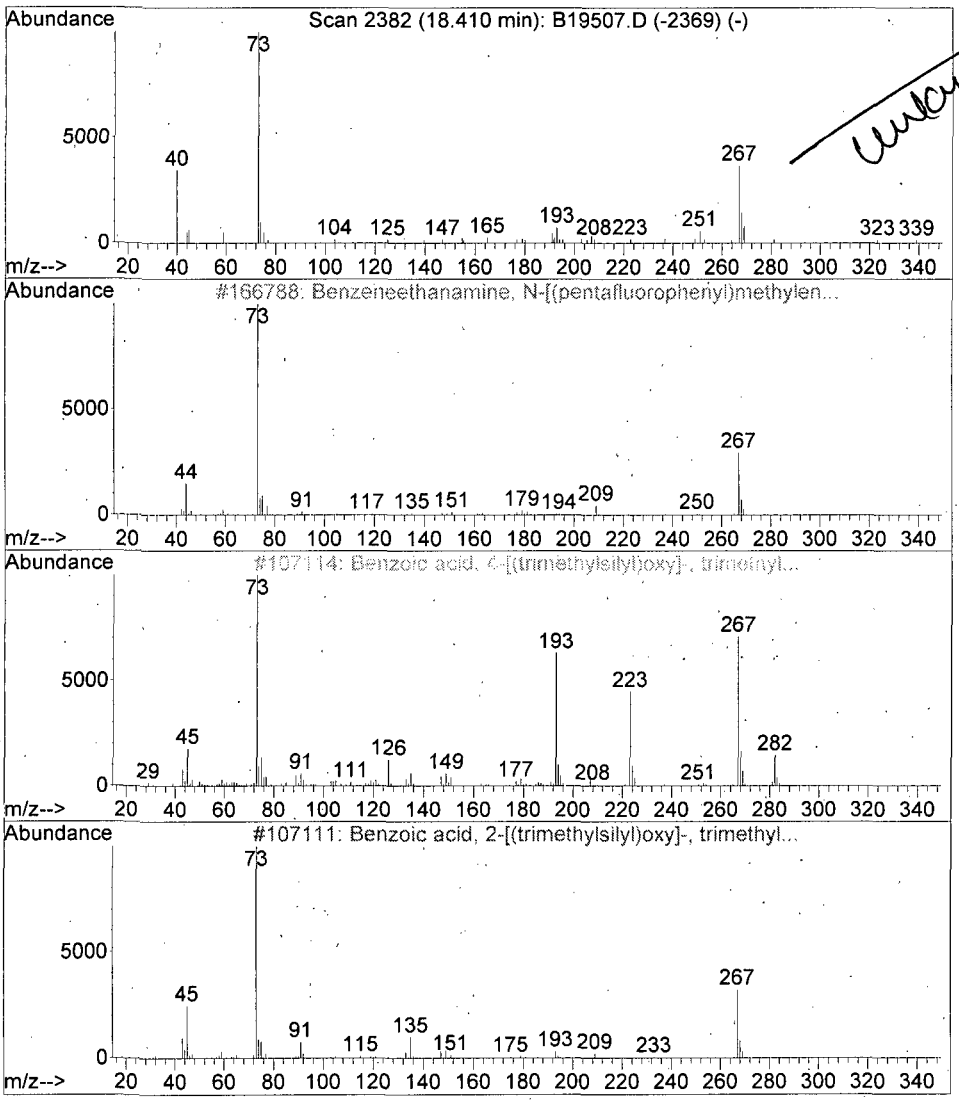
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

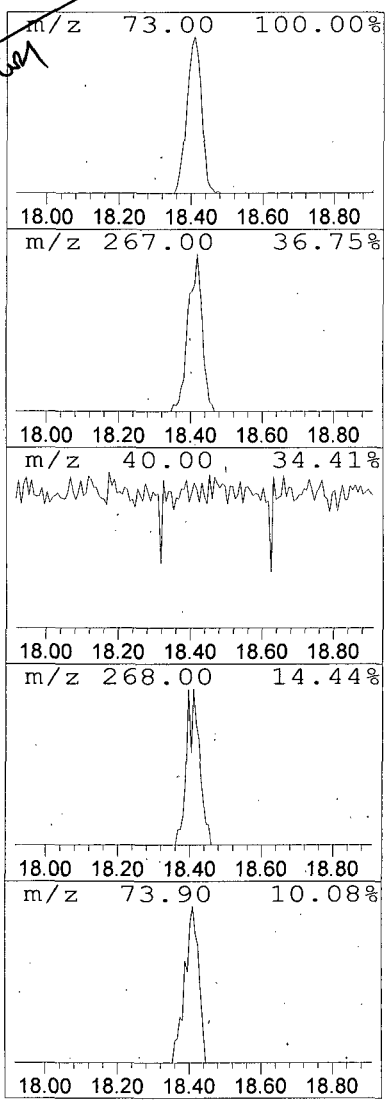
****

Peak Number 3 Benzeneethanamine, N-[(pent... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	0.67 ug/L	1090470	1,4-Dichlorobenzene-d4	16.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	42
2	Benzoic acid, 4-[(trimethylsilyl...	282	C13H22O3Si2	002078-13-9	39
3	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	36
4	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	36
5	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	36





0432

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19507.D
Acq On : 11/26/08 04:04 Operator: SB
Sample : F2XF9 Inst : B-5973
Misc : S-2066.14 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
d-Alanine	1.56	21.9	ug/L	2188630000	1	8.07	500467000	5.0
Cyclotetrasiloxan...	14.98	2.0	ug/L	3175480	3	16.72	8099120	5.0
Benzeneethanamine...	18.41	0.7	ug/L	1090470	3	16.72	8099120	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XF9DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.14DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17036

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 20.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	100	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	17	D
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	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

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F2XF9DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.14DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17036

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 20.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	210	D
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	100	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	100	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
95-47-6	o-Xylene	10	U
179601-23-1	m,p-Xylene	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
87-61-6	1,2,3-Trichlorobenzene	10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XF9DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.14DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17036

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 20.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.80	28	DJ
02		Unknown-02	10.77	170	DJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 11:14:31 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

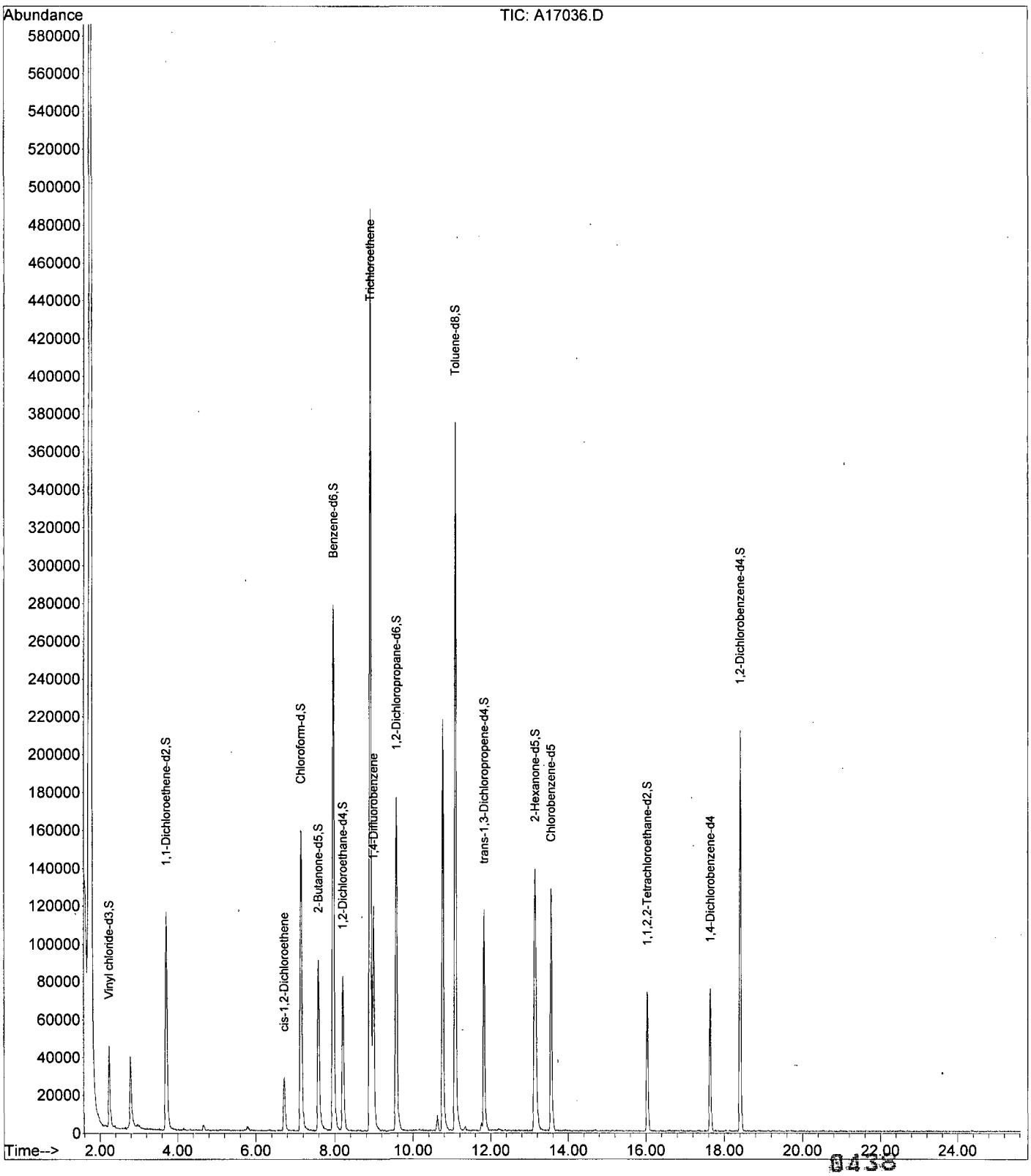
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1310637	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1089289	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	315989	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	739072	4.33	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 86.60%			
7) Chloroethane-d5	2.98	69	2412	0.02	ug/L	0.18
Spiked Amount 5.000	Range 71 - 131		Recovery = 0.40%#			
10) 1,1-Dichloroethene-d2	3.72	63	1380902	3.28	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 65.60%			
21) 2-Butanone-d5	7.60	46	1773726	57.76	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 115.52%			
24) Chloroform-d	7.16	84	1952059	4.21	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 84.20%			
26) 1,2-Dichloroethane-d4	8.22	65	888912	4.80	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 96.00%			
32) Benzene-d6	7.97	84	3807778	4.74	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 94.80%			
36) 1,2-Dichloropropane-d6	9.58	67	1126458	4.72	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 94.40%			
41) Toluene-d8	11.10	98	3715750	5.05	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 101.00%			
43) trans-1,3-Dichloropropene-	11.84	79	904014	4.34	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 86.80%			
47) 2-Hexanone-d5	13.15	63	749218	62.39	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 124.78%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	558042	4.92	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 98.40%			
63) 1,2-Dichlorobenzene-d4	18.42	152	865800	6.03	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 120.60%			
Target Compounds						Qvalue
20) cis-1,2-Dichloroethene	6.73	96	184436	0.87	ug/L	98
34) Trichloroethene	8.91	95	2440235	10.54	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0437

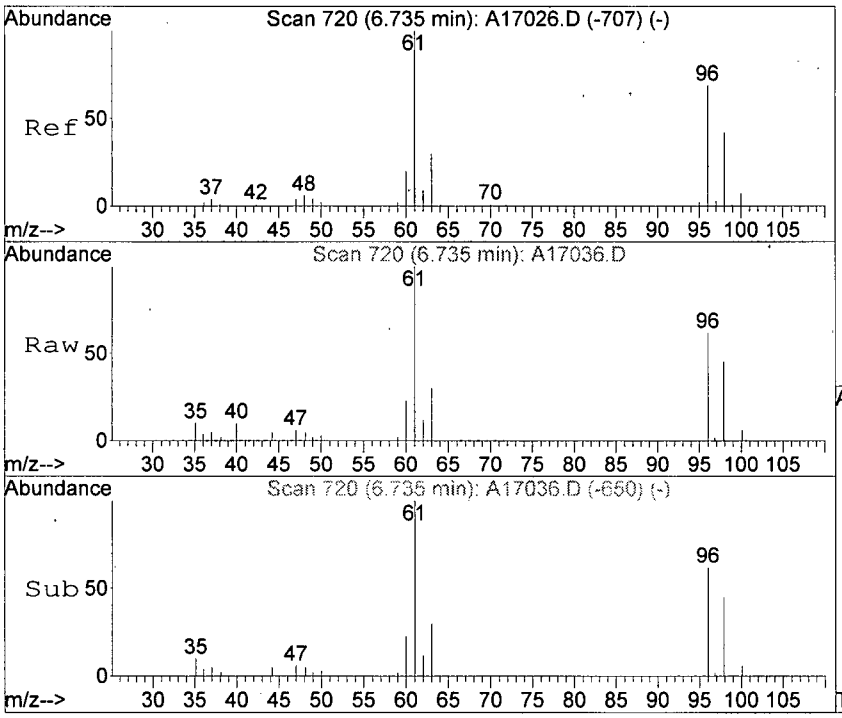
Data File: C:\MSDCHEM\1\DATA\A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 28 11:14:31 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



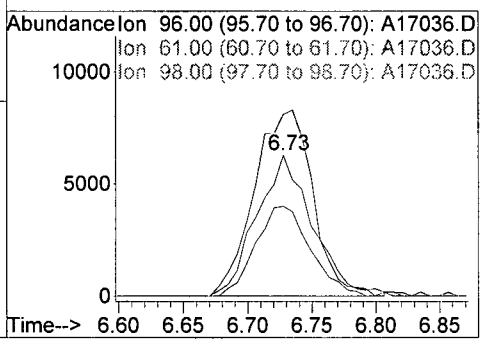
Data File : C:\MSDCHEM\1\DATA\A17036.D
Acq On : 11/27/08 00:11
Sample : F2XF9DL 20X
Misc : S-2066.14DL 25ML
MS Integration Params: LSCINT.E

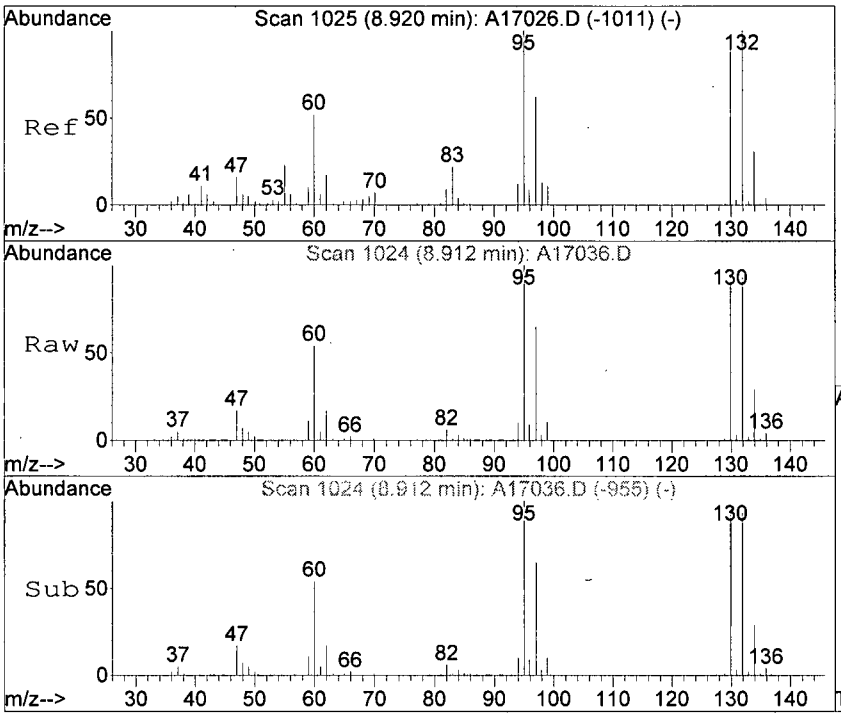
Vial: 13
Operator: SB
Inst : A-5973
Multiplr: 1.00



#20
cis-1,2-Dichloroethene
Concen: 0.87 ug/L
RT: 6.73 min Scan# 720
Delta R.T. -0.00 min
Integration Range:
Scan=710 to 730
R.T.= 6.66 to 6.81 (min)
Tgt Ion: 96 Resp: 184436

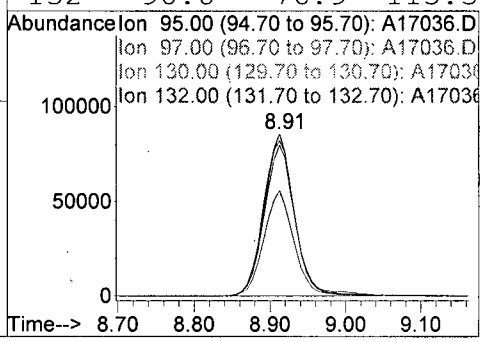
Ion	Ratio	Lower	Upper
96	100		
61	146.0	116.9	175.3
98	64.4	48.5	72.7





#34
Trichloroethene
Concen: 10.54 ug/L
RT: 8.91 min Scan# 1024
Delta R.T. -0.00 min
Integration Range:
Scan=1010 to 1043
R.T.= 8.81 to 9.05 (min)
Tgt Ion: 95 Resp: 2440235

Ion	Ratio	Lower	Upper
95	100		
97	62.4	53.2	79.8
130	96.2	79.5	119.3
132	90.8	76.9	115.3



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.129	72	77	86	BV 3	634	15429	0.11%	0.017%
2	2.243	86	93	107	PV 2	41997	1141599	8.44%	1.233%
3	2.387	107	113	117	VV 4	1437	33329	0.25%	0.036%
4	2.423	117	118	122	VV 2	436	3919	0.03%	0.004%
5	2.466	122	124	128	VV 2	467	6654	0.05%	0.007%
6	2.509	128	130	132	PV 2	245	1731	0.01%	0.002%
7	2.530	132	133	135	PV	404	3294	0.02%	0.004%
8	2.573	135	139	143	VV 3	672	12311	0.09%	0.013%
9	2.623	143	146	149	VV 2	662	11605	0.09%	0.013%
10	2.659	149	151	154	VV	1219	13616	0.10%	0.015%
11	2.802	154	171	188	PV 2	36819	1265555	9.35%	1.366%
12	2.974	188	195	199	VV 6	2840	100957	0.75%	0.109%
13	3.017	199	201	206	VV 4	2513	49280	0.36%	0.053%
14	3.060	206	207	220	VV 3	1326	49215	0.36%	0.053%
15	3.168	220	222	227	VV 2	838	14199	0.10%	0.015%
16	3.218	227	229	231	VV 2	1013	11314	0.08%	0.012%
17	3.246	231	233	235	VV	464	6004	0.04%	0.006%
18	3.275	235	237	241	VV 2	872	16393	0.12%	0.018%
19	3.311	241	242	248	VV 3	741	13941	0.10%	0.015%
20	3.368	248	250	252	VV 2	561	6203	0.05%	0.007%
21	3.397	252	254	256	VV 2	445	6226	0.05%	0.007%
22	3.418	256	257	269	VV 2	698	20706	0.15%	0.022%
23	3.526	269	272	277	VV	1009	14313	0.11%	0.015%
24	3.576	277	279	282	VV 2	661	8494	0.06%	0.009%
25	3.612	282	284	286	PV 2	328	2686	0.02%	0.003%
26	3.719	286	299	336	VV	113630	3875607	28.65%	4.184%
27	4.013	336	340	342	VV 2	809	13418	0.10%	0.014%
28	4.034	342	343	348	VV	573	8028	0.06%	0.009%
29	4.084	348	350	352	VV	579	7170	0.05%	0.008%
30	4.163	352	361	363	VV	1347	27044	0.20%	0.029%
31	4.192	363	365	372	VV 2	657	13955	0.10%	0.015%
32	4.285	372	378	381	VV 2	523	13924	0.10%	0.015%
33	4.321	381	383	386	VV 2	860	10493	0.08%	0.011%
34	4.357	386	388	390	VV 2	339	4119	0.03%	0.004%
35	4.385	390	392	400	VV 2	581	18733	0.14%	0.020%
36	4.471	400	404	409	VV 2	719	19023	0.14%	0.021%
37	4.521	409	411	413	VV	640	6710	0.05%	0.007%
38	4.543	413	414	416	VV	605	5533	0.04%	0.006%
39	4.586	416	420	426	VV	546	16810	0.12%	0.018%
40	4.672	426	432	439	VV 4	3199	104209	0.77%	0.113%
41	4.779	439	447	454	VV 2	730	30996	0.23%	0.033%
42	4.844	454	456	459	VV	433	6542	0.05%	0.007%
43	4.887	459	462	474	VV 2	645	24377	0.18%	0.026%
44	4.987	474	476	483	VV 2	830	15265	0.11%	0.016%

0440

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	5.059	483	486	488	PV	595	7645	0.06%	0.008%
46	5.087	488	490	496	VV 2	962	22032	0.16%	0.024%
47	5.173	496	502	507	VV 2	725	24409	0.18%	0.026%
48	5.223	507	509	513	VV 2	764	13267	0.10%	0.014%
49	5.266	513	515	520	VV 2	859	15491	0.11%	0.017%
50	5.316	520	522	528	VV 2	882	17117	0.13%	0.018%
51	5.374	528	530	532	VV 2	386	4215	0.03%	0.005%
52	5.395	532	533	537	VV 2	503	9563	0.07%	0.010%
53	5.460	537	542	544	VV 2	683	13239	0.10%	0.014%
54	5.495	544	547	554	VV 2	484	17382	0.13%	0.019%
55	5.560	554	556	559	VV 2	510	7250	0.05%	0.008%
56	5.596	559	561	574	VV 2	628	24042	0.18%	0.026%
57	5.710	574	577	579	VV	985	13377	0.10%	0.014%
58	5.775	579	586	599	VV 4	2519	105284	0.78%	0.114%
59	5.882	599	601	604	VV 2	872	11950	0.09%	0.013%
60	5.918	604	606	610	VV 2	689	11865	0.09%	0.013%
61	5.968	610	613	615	VV 2	647	10574	0.08%	0.011%
62	6.004	615	618	623	VV	583	13077	0.10%	0.014%
63	6.047	623	624	635	VV 2	416	20472	0.15%	0.022%
64	6.140	635	637	640	VV	813	10438	0.08%	0.011%
65	6.169	640	641	643	VV	373	4133	0.03%	0.004%
66	6.197	643	645	646	VV 2	498	5118	0.04%	0.006%
67	6.219	646	648	650	VV	480	4552	0.03%	0.005%
68	6.255	650	653	655	VV 2	531	7737	0.06%	0.008%
69	6.283	655	657	659	VV 2	553	5361	0.04%	0.006%
70	6.312	659	661	670	VV 2	608	24927	0.18%	0.027%
71	6.384	670	671	673	VV	571	4390	0.03%	0.005%
72	6.420	673	676	678	VV 2	525	6751	0.05%	0.007%
73	6.448	678	680	681	VV	460	5414	0.04%	0.006%
74	6.470	681	683	687	VV 2	493	6714	0.05%	0.007%
75	6.513	687	689	692	VV 2	458	8178	0.06%	0.009%
76	6.548	692	694	696	VV 2	694	8792	0.06%	0.009%
77	6.599	696	701	705	VV 2	731	15014	0.11%	0.016%
78	6.649	705	708	711	VV	759	12132	0.09%	0.013%
79	6.735	711	720	742	VV 2	27969	929488	6.87%	1.004%
80	6.935	742	748	756	VV 2	725	29555	0.22%	0.032%
81	7.007	756	758	760	VV	387	5254	0.04%	0.006%
82	7.050	760	764	768	VV 2	460	10017	0.07%	0.011%
83	7.157	768	779	792	VV	158892	5148744	38.06%	5.559%
84	7.258	792	793	801	VV 4	2778	77236	0.57%	0.083%
85	7.336	801	804	809	VV 2	1319	27697	0.20%	0.030%
86	7.387	809	811	818	VV	1036	24069	0.18%	0.026%
87	7.451	818	820	822	VV	775	7275	0.05%	0.008%
88	7.473	822	823	827	VV	747	8357	0.06%	0.009%
89	7.515	827	829	831	VV	749	8458	0.06%	0.009%
90	7.601	831	841	862	VV	90464	3027467	22.38%	3.269%
91	7.766	862	864	873	VV 2	1619	52188	0.39%	0.056%

0441

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.845	873	875	882	VV	3	1057	29969	0.22%	0.032%
93	7.974	882	893	909	VV		278833	8480351	62.68%	9.156%
94	8.096	909	910	913	VV		2089	26345	0.19%	0.028%
95	8.132	913	915	918	VV	3	1364	24990	0.18%	0.027%
96	8.225	918	928	939	VV	2	81870	2551415	18.86%	2.755%
97	8.311	939	940	943	VV		1869	21603	0.16%	0.023%
98	8.339	943	944	951	VV	3	1007	21358	0.16%	0.023%
99	8.404	951	953	958	VV	2	816	19514	0.14%	0.021%
100	8.447	958	959	963	VV		616	9956	0.07%	0.011%
101	8.490	963	965	970	VV	2	665	14321	0.11%	0.015%
102	8.547	970	973	977	VV	2	430	10378	0.08%	0.011%
103	8.590	977	979	985	VV	2	762	20076	0.15%	0.022%
104	8.654	985	988	995	VV	2	915	17850	0.13%	0.019%
105	8.712	995	996	998	VV		260	2796	0.02%	0.003%
106	8.748	998	1001	1010	VV	2	626	18922	0.14%	0.020%
107	8.826	1010	1012	1013	VV		512	5119	0.04%	0.006%
108	8.912	1013	1024	1031	VV		480052	13529234	100.00%	14.607%
109	8.998	1031	1036	1047	VV		117867	3494273	25.83%	3.773%
110	9.084	1047	1048	1051	VV	3	2906	41992	0.31%	0.045%
111	9.120	1051	1053	1055	VV		1822	23555	0.17%	0.025%
112	9.142	1055	1056	1058	VV		1434	13127	0.10%	0.014%
113	9.170	1058	1060	1063	VV		806	11955	0.09%	0.013%
114	9.206	1063	1065	1067	VV		1174	11882	0.09%	0.013%
115	9.227	1067	1068	1071	VV	2	654	8600	0.06%	0.009%
116	9.285	1071	1076	1079	VV		903	20398	0.15%	0.022%
117	9.321	1079	1081	1085	PV	2	485	7653	0.06%	0.008%
118	9.356	1085	1086	1088	VV		693	6143	0.05%	0.007%
119	9.385	1088	1090	1091	VV		694	9443	0.07%	0.010%
120	9.407	1091	1093	1095	VV	2	675	8753	0.06%	0.009%
121	9.428	1095	1096	1099	VV		624	10386	0.08%	0.011%
122	9.464	1099	1101	1103	VV	2	598	6892	0.05%	0.007%
123	9.578	1103	1117	1140	VV		174545	5386167	39.81%	5.815%
124	9.758	1140	1142	1144	VV	2	961	11562	0.09%	0.012%
125	9.786	1144	1146	1151	VV		867	15425	0.11%	0.017%
126	9.836	1151	1153	1157	VV		553	10729	0.08%	0.012%
127	9.908	1157	1163	1168	VV	2	622	20006	0.15%	0.022%
128	9.958	1168	1170	1172	VV		832	8864	0.07%	0.010%
129	10.001	1172	1176	1180	VV	2	861	19332	0.14%	0.021%
130	10.044	1180	1182	1190	VV		754	26718	0.20%	0.029%
131	10.159	1190	1198	1203	VV	4	1195	35799	0.26%	0.039%
132	10.209	1203	1205	1208	VV	2	722	9059	0.07%	0.010%
133	10.252	1208	1211	1215	VV	2	1102	17892	0.13%	0.019%
134	10.302	1215	1218	1220	VV	2	678	10833	0.08%	0.012%
135	10.331	1220	1222	1229	VV	2	769	18027	0.13%	0.019%
136	10.395	1229	1231	1237	VV	2	615	14385	0.11%	0.016%
137	10.452	1237	1239	1244	VV	2	943	17051	0.13%	0.018%
138	10.531	1244	1250	1255	VV	2	812	23299	0.17%	0.025%
139	10.624	1255	1263	1271	VV	4	8250	222979	1.65%	0.241%

0442

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.775	1271	1284	1306	VV		218395	6046769	44.69%	6.528%
141	10.961	1306	1310	1314	VV	3	1124	24944	0.18%	0.027%
142	11.004	1314	1316	1319	VV		808	14184	0.10%	0.015%
143	11.097	1319	1329	1352	VV		374383	10221985	75.55%	11.036%
144	11.348	1352	1364	1367	VV	4	2712	83531	0.62%	0.090%
145	11.384	1367	1369	1370	VV	2	1122	13587	0.10%	0.015%
146	11.405	1370	1372	1377	VV	2	728	18219	0.13%	0.020%
147	11.455	1377	1379	1382	VV	2	636	9400	0.07%	0.010%
148	11.491	1382	1384	1386	VV		640	9403	0.07%	0.010%
149	11.534	1386	1390	1393	VV	2	891	16790	0.12%	0.018%
150	11.620	1393	1402	1404	VV	2	960	31406	0.23%	0.034%
151	11.641	1404	1405	1407	VV		795	5840	0.04%	0.006%
152	11.670	1407	1409	1413	VV	2	715	10295	0.08%	0.011%
153	11.720	1413	1416	1417	VV		818	10576	0.08%	0.011%
154	11.756	1417	1421	1425	VV	3	4877	105910	0.78%	0.114%
155	11.835	1425	1432	1446	VV		115056	3126619	23.11%	3.376%
156	11.949	1446	1448	1451	VV	2	1149	15704	0.12%	0.017%
157	11.992	1451	1454	1459	VV	3	1022	25756	0.19%	0.028%
158	12.043	1459	1461	1463	VV	2	1093	13416	0.10%	0.014%
159	12.114	1463	1471	1473	VV	3	1132	33780	0.25%	0.036%
160	12.150	1473	1476	1478	VV		780	14089	0.10%	0.015%
161	12.200	1478	1483	1485	VV	3	1585	35196	0.26%	0.038%
162	12.229	1485	1487	1489	VV	2	1318	17539	0.13%	0.019%
163	12.250	1489	1490	1493	VV		1088	15981	0.12%	0.017%
164	12.286	1493	1495	1499	VV	2	974	16308	0.12%	0.018%
165	12.372	1499	1507	1512	VV	3	1080	32808	0.24%	0.035%
166	12.429	1512	1515	1517	VV	2	626	11073	0.08%	0.012%
167	12.458	1517	1519	1523	VV	2	917	16408	0.12%	0.018%
168	12.501	1523	1525	1529	VV		829	14862	0.11%	0.016%
169	12.544	1529	1531	1532	VV		654	7572	0.06%	0.008%
170	12.587	1532	1537	1539	VV	2	842	17435	0.13%	0.019%
171	12.616	1539	1541	1546	VV	2	742	18226	0.13%	0.020%
172	12.673	1546	1549	1552	VV	2	597	10488	0.08%	0.011%
173	12.716	1552	1555	1558	VV	3	1005	15576	0.12%	0.017%
174	12.752	1558	1560	1562	VV		855	10330	0.08%	0.011%
175	12.780	1562	1564	1565	VV		697	5518	0.04%	0.006%
176	12.809	1565	1568	1570	VV	2	815	12234	0.09%	0.013%
177	12.888	1577	1579	1583	VV		762	14756	0.11%	0.016%
178	12.938	1583	1586	1589	VV	2	856	12419	0.09%	0.013%
179	12.981	1589	1592	1597	VV	2	537	18467	0.14%	0.020%
180	13.031	1597	1599	1604	VV	2	787	16396	0.12%	0.018%
181	13.153	1604	1616	1643	VV	2	139676	5562633	41.12%	6.006%
182	13.353	1643	1644	1652	VV	2	966	30748	0.23%	0.033%
183	13.432	1652	1655	1664	VV	2	838	35030	0.26%	0.038%
184	13.568	1664	1674	1688	VV		128559	3545437	26.21%	3.828%
185	13.683	1688	1690	1697	VV	2	800	27162	0.20%	0.029%
186	13.754	1697	1700	1702	VV	2	887	12087	0.09%	0.013%

0443

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.783	1702	1704	1705	VV	423	4324	0.03%	0.005%
188	13.805	1705	1707	1709	VV 2	735	9679	0.07%	0.010%
189	13.840	1709	1712	1713	VV 2	582	7852	0.06%	0.008%
190	13.883	1713	1718	1721	VV 2	869	20107	0.15%	0.022%
191	13.926	1721	1724	1728	VV	1126	20484	0.15%	0.022%
192	13.977	1728	1731	1735	VV	901	16233	0.12%	0.018%
193	14.020	1735	1737	1748	VV 2	761	26726	0.20%	0.029%
194	14.127	1748	1752	1758	VV 2	683	20374	0.15%	0.022%
195	14.177	1758	1759	1768	VV 2	654	22250	0.16%	0.024%
196	14.256	1768	1770	1772	VV 2	536	5551	0.04%	0.006%
197	14.299	1772	1776	1786	VV 2	669	30900	0.23%	0.033%
198	14.385	1786	1788	1789	VV	563	5459	0.04%	0.006%
199	14.428	1789	1794	1796	VV 2	790	13602	0.10%	0.015%
200	14.485	1796	1802	1804	VV 2	752	14731	0.11%	0.016%
201	14.507	1804	1805	1807	VV 2	561	5708	0.04%	0.006%
202	14.528	1807	1808	1812	VV 2	545	10533	0.08%	0.011%
203	14.571	1812	1814	1816	VV	685	10027	0.07%	0.011%
204	14.600	1816	1818	1821	VV 2	651	8904	0.07%	0.010%
205	14.643	1821	1824	1828	VV	959	17256	0.13%	0.019%
206	14.700	1828	1832	1841	VV 3	1115	34598	0.26%	0.037%
207	14.779	1841	1843	1845	VV	420	5502	0.04%	0.006%
208	14.822	1845	1849	1852	VV 2	780	15008	0.11%	0.016%
209	14.865	1852	1855	1862	VV 2	696	21560	0.16%	0.023%
210	14.936	1862	1865	1866	VV 2	617	9039	0.07%	0.010%
211	14.958	1866	1868	1870	VV 2	766	8859	0.07%	0.010%
212	14.987	1870	1872	1878	VV 2	884	19399	0.14%	0.021%
213	15.044	1878	1880	1886	VV	730	16407	0.12%	0.018%
214	15.115	1886	1890	1896	VV 2	721	23956	0.18%	0.026%
215	15.173	1896	1898	1901	VV	672	10258	0.08%	0.011%
216	15.209	1901	1903	1904	VV	512	5278	0.04%	0.006%
217	15.237	1904	1907	1922	VV 2	792	44086	0.33%	0.048%
218	15.352	1922	1923	1927	VV	684	13535	0.10%	0.015%
219	15.395	1927	1929	1933	VV	752	9442	0.07%	0.010%
220	15.502	1933	1944	1946	VV 2	746	27564	0.20%	0.030%
221	15.538	1946	1949	1951	VV	598	9823	0.07%	0.011%
222	15.567	1951	1953	1954	VV 2	730	6727	0.05%	0.007%
223	15.588	1954	1956	1963	VV 2	622	19065	0.14%	0.021%
224	15.689	1963	1970	1975	VV 2	682	22406	0.17%	0.024%
225	15.746	1975	1978	1985	VV 2	576	19296	0.14%	0.021%
226	15.817	1985	1988	1992	VV	765	12981	0.10%	0.014%
227	15.860	1992	1994	1998	VV 2	581	11178	0.08%	0.012%
228	15.903	1998	2000	2004	VV 2	542	10997	0.08%	0.012%
229	16.047	2004	2020	2032	VV 2	73744	2018758	14.92%	2.180%
230	16.140	2032	2033	2035	VV	1017	9041	0.07%	0.010%
231	16.176	2035	2038	2045	VV 2	834	20408	0.15%	0.022%
232	16.240	2045	2047	2049	VV	656	7643	0.06%	0.008%
233	16.269	2049	2051	2053	VV 2	605	7108	0.05%	0.008%
234	16.297	2053	2055	2057	VV	556	6898	0.05%	0.007%

0444

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.326	2057	2059	2062	VV		512	9777	0.07%	0.011%
236	16.383	2062	2067	2070	VV	2	850	16342	0.12%	0.018%
237	16.433	2070	2074	2077	VV		679	12060	0.09%	0.013%
238	16.498	2077	2083	2084	VV	2	453	10916	0.08%	0.012%
239	16.541	2084	2089	2093	VV	2	668	17339	0.13%	0.019%
240	16.577	2093	2094	2104	VV	2	777	30193	0.22%	0.033%
241	16.663	2104	2106	2107	VV		655	6591	0.05%	0.007%
242	16.684	2107	2109	2114	VV	2	553	12819	0.09%	0.014%
243	16.727	2114	2115	2117	VV		643	6386	0.05%	0.007%
244	16.799	2117	2125	2129	VV	2	659	28218	0.21%	0.030%
245	16.842	2129	2131	2134	VV	2	652	11925	0.09%	0.013%
246	16.899	2134	2139	2146	VV	2	946	29847	0.22%	0.032%
247	16.964	2146	2148	2157	VV	2	730	18217	0.13%	0.020%
248	17.042	2157	2159	2163	VV	2	628	13241	0.10%	0.014%
249	17.107	2163	2168	2169	VV		738	11483	0.08%	0.012%
250	17.128	2169	2171	2179	VV	2	757	21348	0.16%	0.023%
251	17.214	2179	2183	2184	VV	2	554	9748	0.07%	0.011%
252	17.236	2184	2186	2188	VV	2	591	6605	0.05%	0.007%
253	17.257	2188	2189	2191	VV		568	5965	0.04%	0.006%
254	17.279	2191	2192	2194	VV	2	542	7704	0.06%	0.008%
255	17.329	2194	2199	2202	VV	2	852	18936	0.14%	0.020%
256	17.365	2202	2204	2209	VV	2	849	19581	0.14%	0.021%
257	17.415	2209	2211	2212	VV		383	3755	0.03%	0.004%
258	17.436	2212	2214	2219	VV		430	9460	0.07%	0.010%
259	17.508	2219	2224	2229	VV		801	21736	0.16%	0.023%
260	17.572	2229	2233	2235	VV		666	12908	0.10%	0.014%
261	17.651	2235	2244	2256	VV		75374	1975949	14.61%	2.133%
262	17.773	2256	2261	2263	VV		961	17637	0.13%	0.019%
263	17.852	2263	2272	2276	VV	2	769	26465	0.20%	0.029%
264	17.895	2276	2278	2281	VV	2	593	8256	0.06%	0.009%
265	17.988	2281	2291	2292	VV	2	594	17846	0.13%	0.019%
266	18.038	2292	2298	2300	VV	2	1000	19574	0.14%	0.021%
267	18.067	2300	2302	2303	VV		694	6905	0.05%	0.007%
268	18.095	2303	2306	2309	VV	2	685	14350	0.11%	0.015%
269	18.138	2309	2312	2316	VV	2	904	19346	0.14%	0.021%
270	18.210	2316	2322	2324	VV	2	767	15122	0.11%	0.016%
271	18.239	2324	2326	2333	VV	2	675	18594	0.14%	0.020%
272	18.303	2333	2335	2339	VV	2	626	13588	0.10%	0.015%
273	18.418	2339	2351	2362	VV		211053	5507613	40.71%	5.946%
274	18.504	2362	2363	2365	VV	2	732	8621	0.06%	0.009%
275	18.525	2365	2366	2371	VV	2	830	15897	0.12%	0.017%
276	18.597	2371	2376	2380	VV	2	876	20969	0.15%	0.023%
277	18.640	2380	2382	2387	VV		911	18654	0.14%	0.020%
278	18.690	2387	2389	2396	VV		644	17201	0.13%	0.019%
279	18.754	2396	2398	2399	VV		648	6529	0.05%	0.007%
280	18.776	2399	2401	2405	VV	2	766	14504	0.11%	0.016%
281	18.847	2405	2411	2420	VV	2	708	34934	0.26%	0.038%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.926	2420	2422	2431	VV 2	823	25831	0.19%	0.028%
283	18.998	2431	2432	2435	VV	638	7808	0.06%	0.008%
284	19.034	2435	2437	2440	VV 2	646	8707	0.06%	0.009%
285	19.062	2440	2441	2445	VV	622	10164	0.08%	0.011%
286	19.120	2445	2449	2453	VV 2	809	20533	0.15%	0.022%
287	19.170	2453	2456	2458	VV 2	565	8445	0.06%	0.009%
288	19.234	2458	2465	2466	VV 2	807	18502	0.14%	0.020%
289	19.263	2466	2469	2478	VV 2	752	27992	0.21%	0.030%
290	19.377	2478	2485	2487	VV 2	717	20960	0.15%	0.023%
291	19.406	2487	2489	2495	VV	772	19548	0.14%	0.021%
292	19.463	2495	2497	2501	VV 2	684	11100	0.08%	0.012%
293	19.506	2501	2503	2507	VV 2	560	10218	0.08%	0.011%
294	19.549	2507	2509	2515	VV 2	581	16286	0.12%	0.018%
295	19.600	2515	2516	2518	VV	683	7311	0.05%	0.008%
296	19.635	2518	2521	2523	VV 2	883	14194	0.10%	0.015%
297	19.678	2523	2527	2529	VV 2	669	13544	0.10%	0.015%
298	19.728	2529	2534	2536	VV	911	20080	0.15%	0.022%
299	19.771	2536	2540	2545	VV 2	826	21118	0.16%	0.023%
300	19.822	2545	2547	2551	VV 2	628	12102	0.09%	0.013%
301	19.865	2551	2553	2555	VV	465	5680	0.04%	0.006%
302	19.886	2555	2556	2558	VV 2	478	5625	0.04%	0.006%
303	19.929	2558	2562	2570	VV 2	788	28896	0.21%	0.031%
304	19.994	2570	2571	2573	VV	649	7161	0.05%	0.008%
305	20.044	2573	2578	2580	VV	848	18895	0.14%	0.020%
306	20.072	2580	2582	2586	VV 2	628	11501	0.09%	0.012%
307	20.122	2586	2589	2596	VV 2	794	19377	0.14%	0.021%
308	20.194	2596	2599	2607	PV 2	661	21025	0.16%	0.023%
309	20.266	2607	2609	2613	VV	761	14493	0.11%	0.016%
310	20.323	2613	2617	2619	VV 2	519	10681	0.08%	0.012%
311	20.352	2619	2621	2623	VV	637	8194	0.06%	0.009%
312	20.380	2623	2625	2627	VV	540	7892	0.06%	0.009%
313	20.402	2627	2628	2633	VV 2	445	11556	0.09%	0.012%
314	20.459	2633	2636	2643	VV 2	811	23488	0.17%	0.025%
315	20.538	2643	2647	2654	VV	975	25470	0.19%	0.027%
316	20.602	2654	2656	2657	VV	578	7748	0.06%	0.008%
317	20.638	2657	2661	2664	VV 2	594	13198	0.10%	0.014%
318	20.681	2664	2667	2670	VV 2	878	14097	0.10%	0.015%
319	20.724	2670	2673	2678	VV 2	673	17566	0.13%	0.019%
320	20.774	2678	2680	2682	VV 2	516	7795	0.06%	0.008%
321	20.817	2682	2686	2698	VV 2	679	28175	0.21%	0.030%
322	20.939	2698	2703	2713	VV 2	492	28808	0.21%	0.031%
323	21.025	2713	2715	2719	VV 2	683	12230	0.09%	0.013%
324	21.068	2719	2721	2723	VV 2	620	7368	0.05%	0.008%
325	21.089	2723	2724	2732	VV	599	16710	0.12%	0.018%
326	21.190	2732	2738	2740	VV	729	16361	0.12%	0.018%
327	21.211	2740	2741	2744	VV	658	10237	0.08%	0.011%
328	21.240	2744	2745	2747	VV	684	7714	0.06%	0.008%
329	21.297	2747	2753	2755	VV 2	483	13940	0.10%	0.015%

0446

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

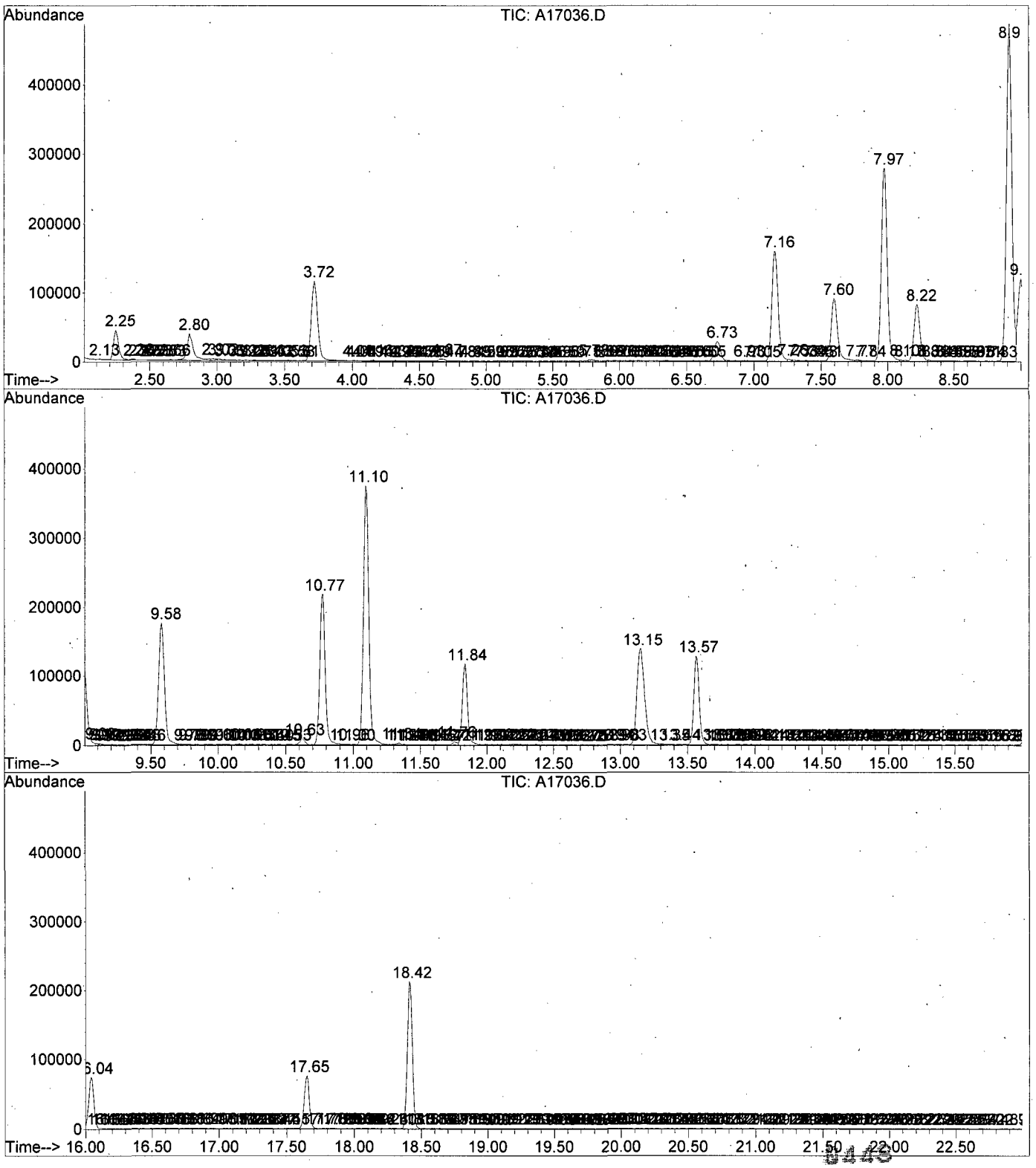
330	21.397	2755	2767	2771	VV	2	647	28737	0.21%	0.031%
331	21.440	2771	2773	2775	VV	2	479	7485	0.06%	0.008%
332	21.469	2775	2777	2779	VV	2	724	9101	0.07%	0.010%
333	21.491	2779	2780	2787	VV	2	649	15780	0.12%	0.017%
334	21.569	2787	2791	2792	VV		559	9473	0.07%	0.010%
335	21.591	2792	2794	2796	VV		619	7197	0.05%	0.008%
336	21.619	2796	2798	2804	VV	2	891	18549	0.14%	0.020%
337	21.677	2804	2806	2809	VV	2	507	8536	0.06%	0.009%
338	21.705	2809	2810	2815	VV		532	9126	0.07%	0.010%
339	21.756	2815	2817	2821	VV	2	482	10509	0.08%	0.011%
340	21.820	2821	2826	2830	VV	2	841	20673	0.15%	0.022%
341	21.870	2830	2833	2840	VV	2	569	18497	0.14%	0.020%
342	21.935	2840	2842	2844	VV	2	668	8271	0.06%	0.009%
343	21.978	2844	2848	2855	VV	2	668	20503	0.15%	0.022%
344	22.056	2855	2859	2861	PV	2	570	9573	0.07%	0.010%
345	22.085	2861	2863	2866	VV	2	523	10760	0.08%	0.012%
346	22.128	2866	2869	2873	VV	2	510	11872	0.09%	0.013%
347	22.171	2873	2875	2879	VV		709	11210	0.08%	0.012%
348	22.257	2879	2887	2897	VV	2	791	30469	0.23%	0.033%
349	22.343	2897	2899	2902	VV		693	10961	0.08%	0.012%
350	22.386	2902	2905	2909	VV	2	532	9965	0.07%	0.011%
351	22.472	2909	2917	2924	VV	2	622	29883	0.22%	0.032%
352	22.529	2924	2925	2927	VV	2	606	4920	0.04%	0.005%
353	22.558	2927	2929	2931	VV	2	574	7463	0.06%	0.008%
354	22.594	2931	2934	2937	VV	2	565	7784	0.06%	0.008%
355	22.644	2937	2941	2943	PV	2	410	7473	0.06%	0.008%
356	22.694	2943	2948	2952	VV	2	736	15145	0.11%	0.016%
357	22.737	2952	2954	2963	VV	2	353	11509	0.09%	0.012%
358	22.866	2963	2972	2979	VV	2	466	11511	0.09%	0.012%
359	22.930	2979	2981	2983	PV		315	2501	0.02%	0.003%

Sum of corrected areas: 92621831

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

11/28/08

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

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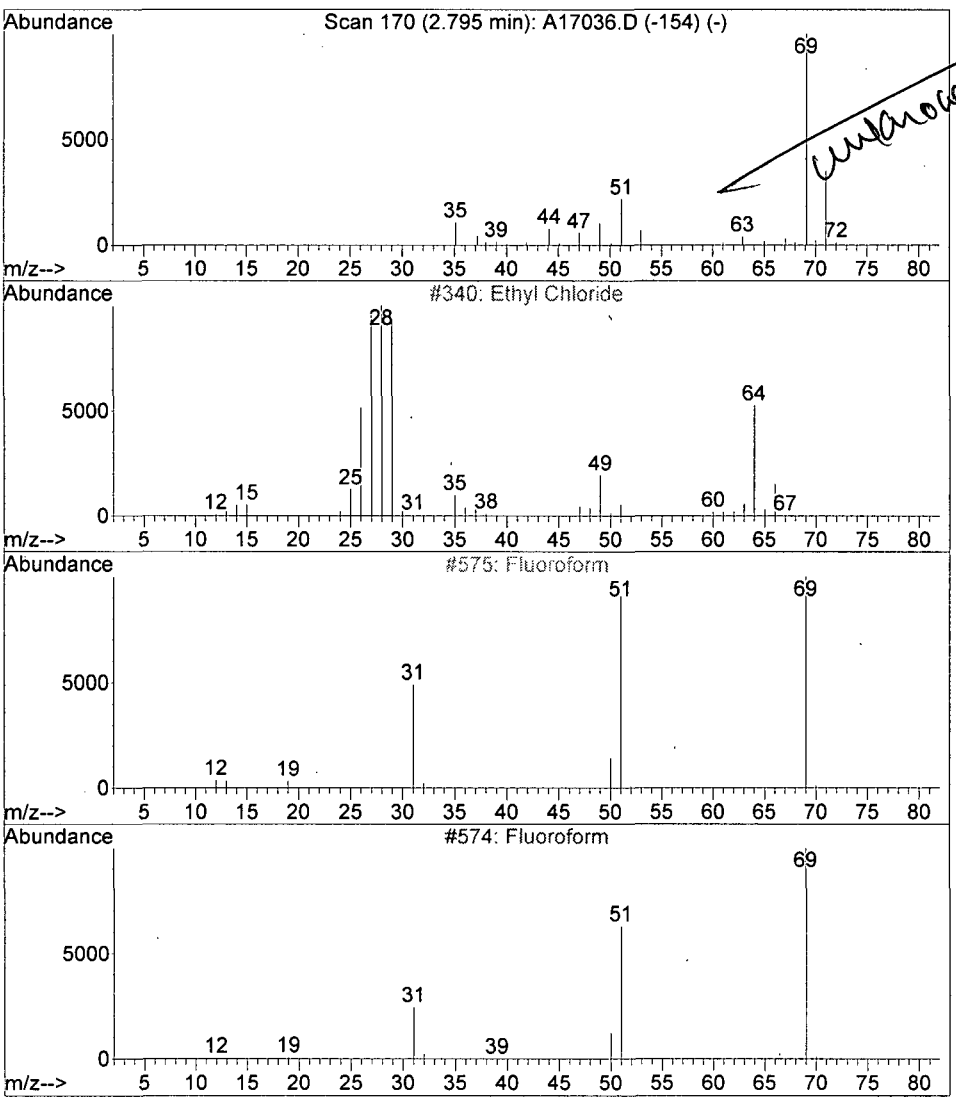
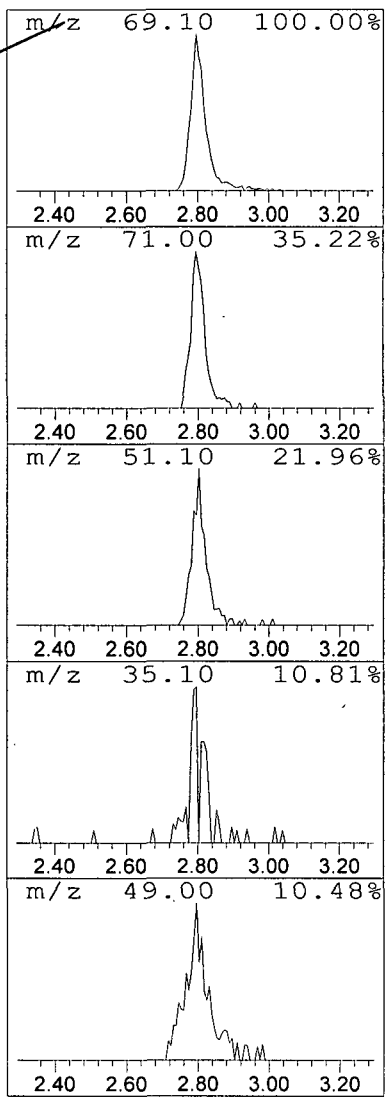
Peak Number 1 Ethyl Chloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.80	1.38 ug/L	963263	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl Chloride	64	C2H5Cl	000075-00-3	9
2	Fluoroform	70	CHF3	000075-46-7	3
3	Fluoroform	70	CHF3	000075-46-7	3
4	N-Chloro-N-fluoro-trifluoromethy...	137	CClF4N	013880-72-3	2
5	2-Butyne-1,4-diol, diformate	142	C6H6O4	036677-73-3	2





0449

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

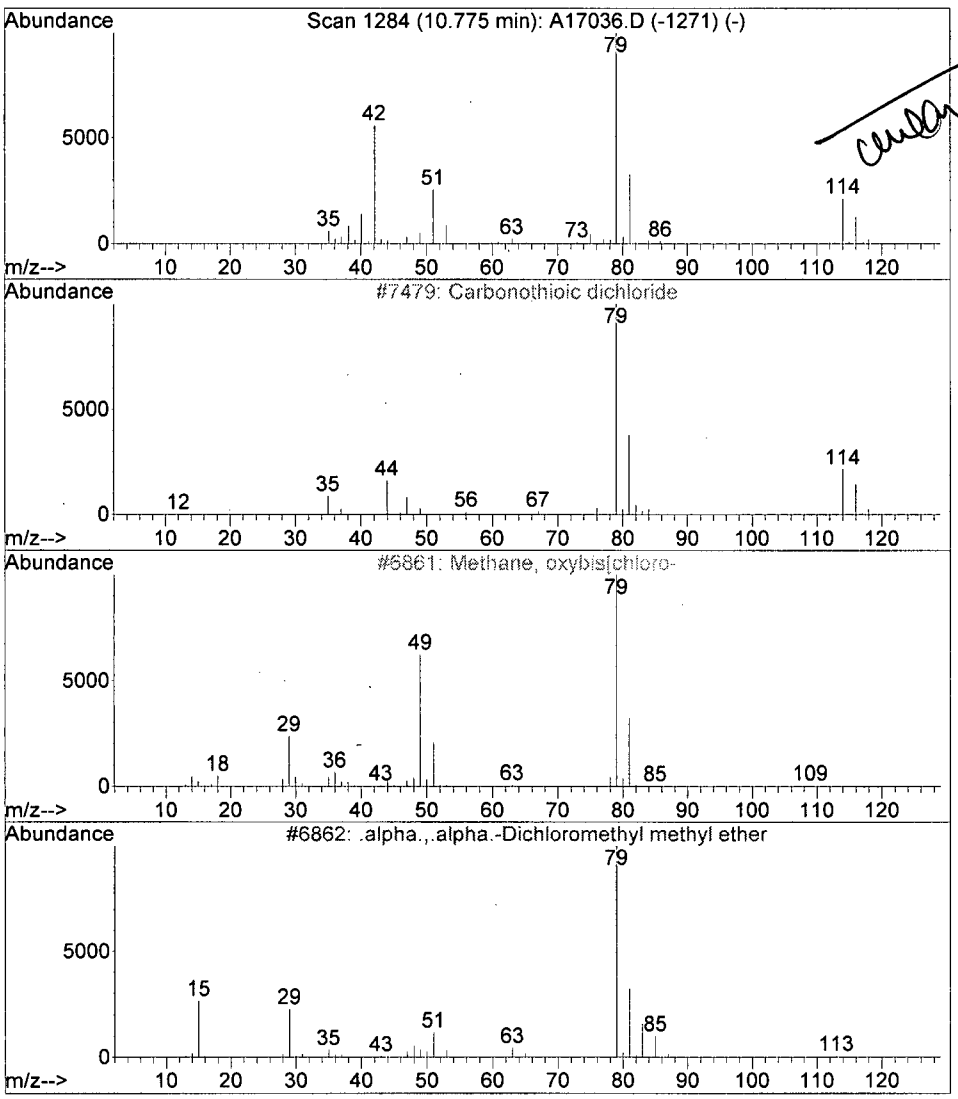
11/28/08

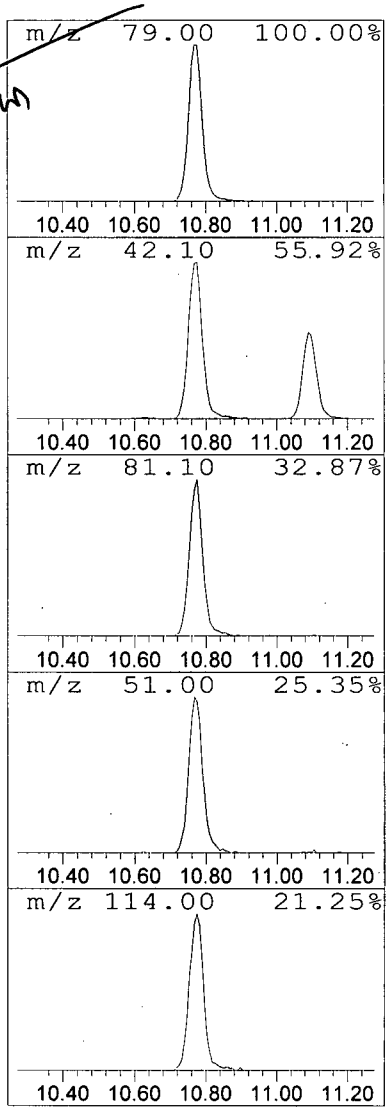
****

Peak Number 2 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	8.65 ug/L	6046770	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	49
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	43
3	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
5	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





0450

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17036.D
Acq On : 11/27/08 00:11 Operator: SB
Sample : F2XF9DL 20X Inst : A-5973
Misc : S-2066.14DL 25ML
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethyl Chloride	2.80	1.4	ug/L	963263	1	9.00	3494270	5.0
Carbonothioic dic...	10.77	8.7	ug/L	6046770	1	9.00	3494270	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XG0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.15

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19522

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	14	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XG0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.15

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19522

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	220	E
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.2	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XG0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.15

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19522

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	24	JB
02		Unknown-02	14.98	2.9	J
03		Unknown-03	18.42	1.3	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 14:43:50 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.08	114	3531471	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	2427302	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.73	152	870138	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.97	65	2409882	4.80	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 96.00%			
7) Chloroethane-d5	2.40	69	1128281	4.95	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 99.00%			
10) 1,1-Dichloroethene-d2	3.13	63	4114289	4.07	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 81.40%			
21) 2-Butanone-d5	6.67	46	2224131	42.15	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 84.30%			
24) Chloroform-d	6.26	84	4445747	4.45	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 89.00%			
26) 1,2-Dichloroethane-d4	7.29	65	2158396	4.80	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 96.00%			
32) Benzene-d6	7.07	84	8641313	5.57	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 111.40%			
36) 1,2-Dichloropropane-d6	8.64	67	2656738	5.66	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 113.20%			
41) Toluene-d8	10.18	98	7472117	5.32	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 106.40%			
43) trans-1,3-Dichloropropene-	10.90	79	2315070	5.35	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 107.00%			
47) 2-Hexanone-d5	12.21	63	1660636	56.13	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 112.26%			
57) 1,1,2,2-Tetrachloroethane-	15.12	84	1384391	5.34	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 106.80%			
63) 1,2-Dichlorobenzene-d4	17.48	152	1870165	5.50	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 110.00%			
Target Compounds						Qvalue
20) cis-1,2-Dichloroethene	5.84	96	5770142	14.03	ug/L	94
34) Trichloroethene	8.01	95	78346118	216.51	ug/L	99
46) Tetrachloroethene	10.86	164	394955	1.24	ug/L	96

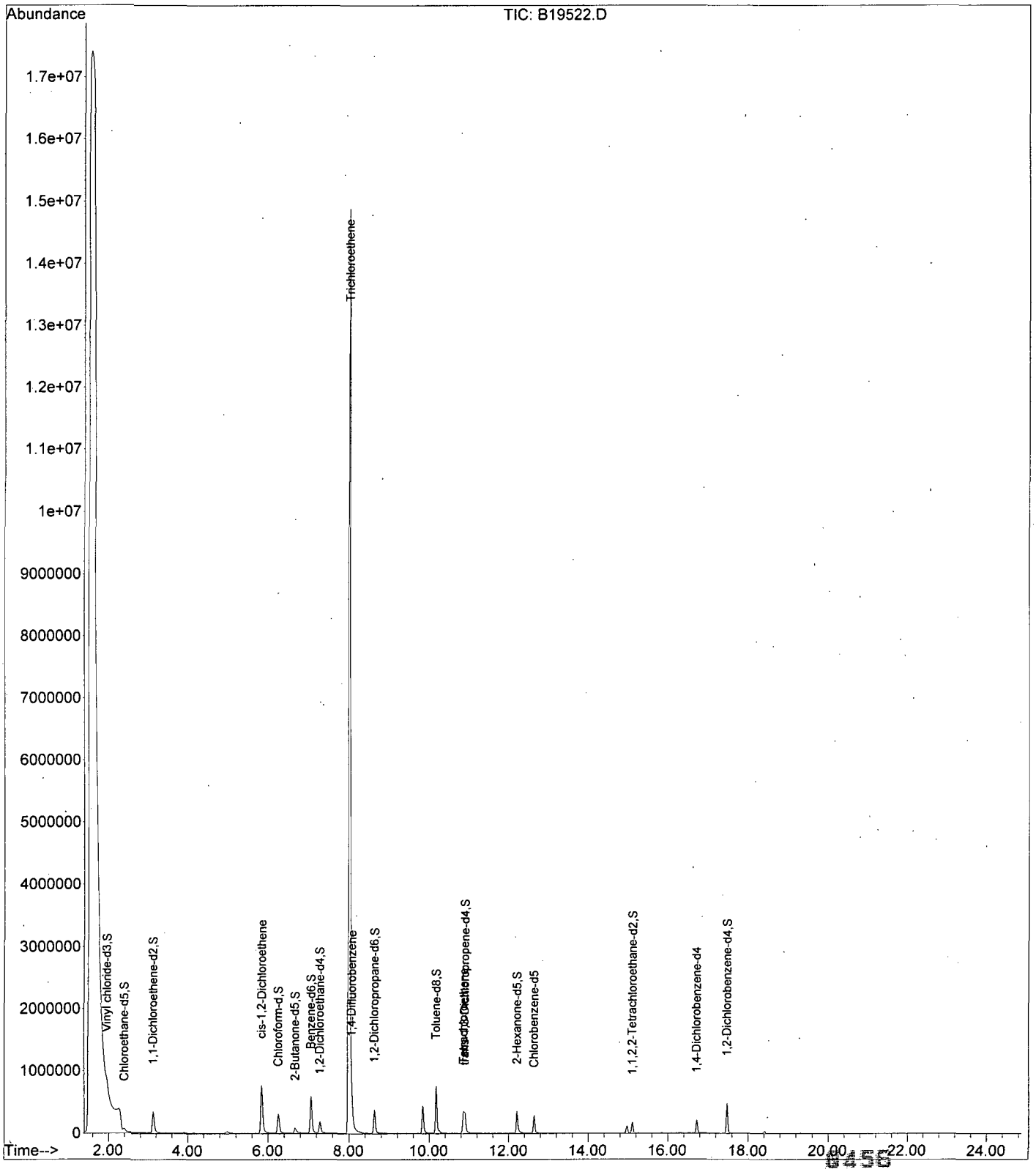
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0455

Quantitation Report (QT Reviewed)

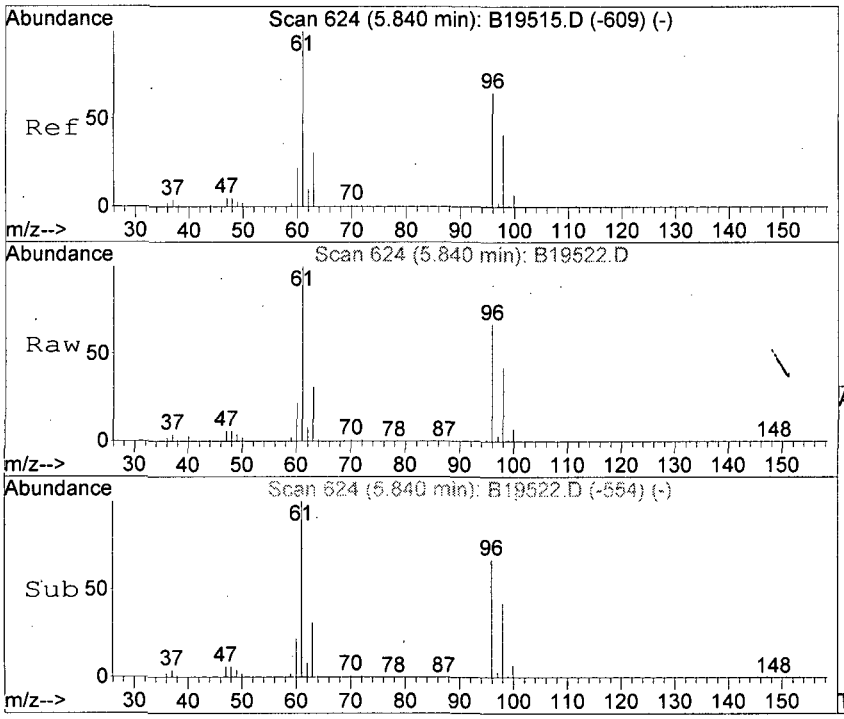
Data File: C:\MSDChem\1\DATA\B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 14:43:50 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration



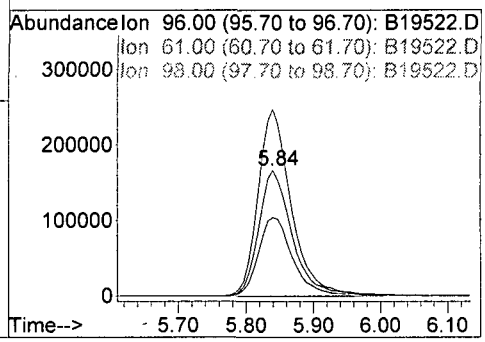
Data File : C:\MSDChem\1\DATA\B19522.D
Acq On : 11/26/08 12:24
Sample : F2XG0
Misc : S-2066.15 25ML
MS Integration Params: LSCINT.E

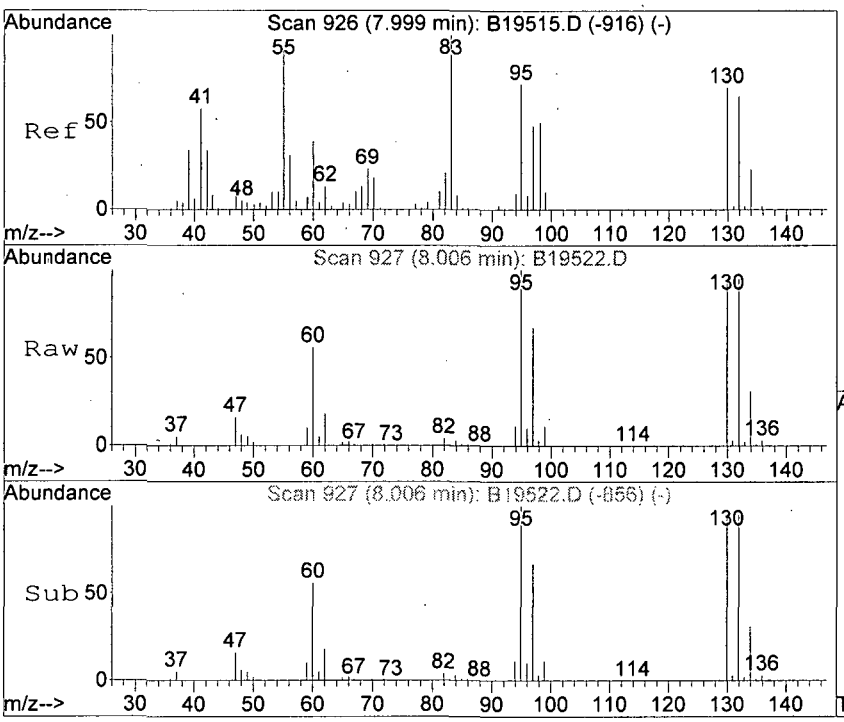
Vial: 8
Operator: SB
Inst : B-5973
Multiplr: 1.00



#20
cis-1,2-Dichloroethene
Concen: 14.03 ug/L
RT: 5.84 min Scan# 624
Delta R.T. 0.00 min
Integration Range:
Scan=610 to 647
R.T.= 5.74 to 6.00 (min)
Tgt Ion: 96 Resp: 5770142

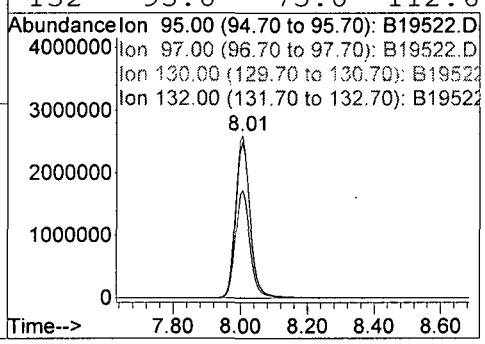
Ion	Ratio	Lower	Upper
96	100		
61	147.9	110.2	165.4
98	64.7	51.4	77.0





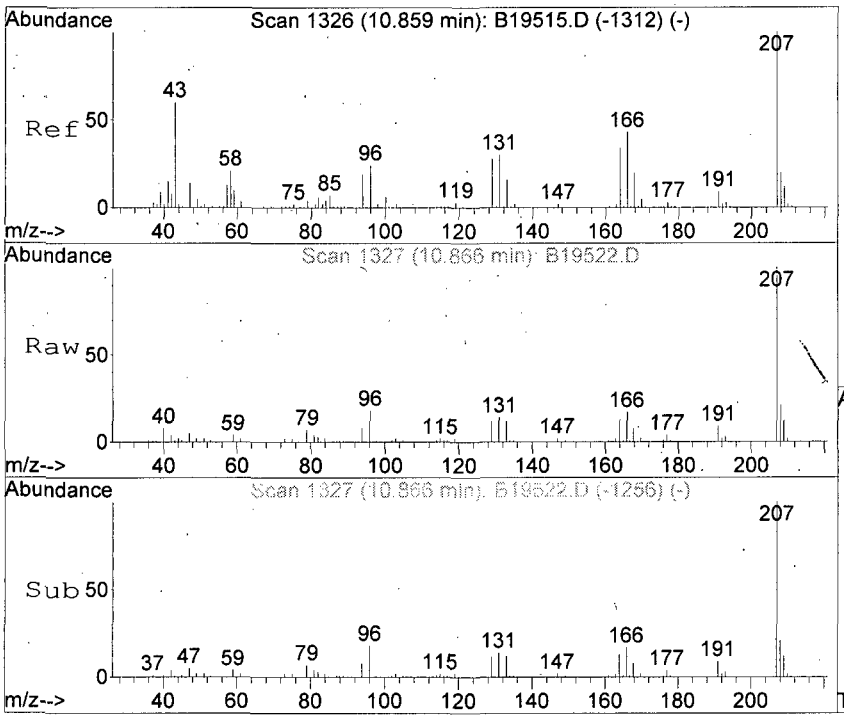
#34
Trichloroethene
Concen: 216.51 ug/L
RT: 8.01 min Scan# 927
Delta R.T. 0.01 min
Integration Range:
Scan=912 to 985
R.T.= 7.90 to 8.42 (min)
Tgt Ion: 95 Resp: 78346118

Ion	Ratio	Lower	Upper
95	100		
97	66.0	51.2	76.8
130	96.9	77.5	116.3
132	95.0	75.0	112.6



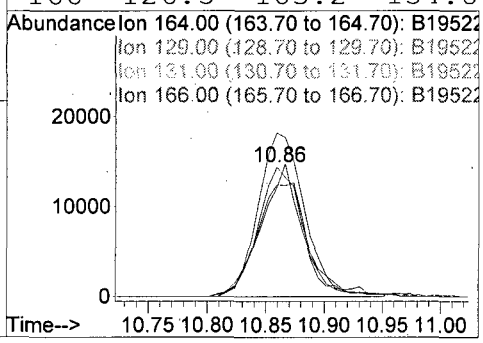
Data File : C:\MSDChem\1\DATA\B19522.D
Acq On : 11/26/08 12:24
Sample : F2XG0
Misc : S-2066.15 25ML
MS Integration Params: LSCINT.E

Vial: 8
Operator: SB
Inst : B-5973
Multiplr: 1.00



#46
Tetrachloroethene
Concen: 1.24 ug/L
RT: 10.86 min Scan# 1327
Delta R.T. 0.00 min
Integration Range:
Scan=1317 to 1339
R.T.= 10.79 to 10.95 (min)
Tgt Ion:164 Resp: 394955

Ion	Ratio	Lower	Upper
164	100		
129	94.5	71.8	107.8
131	91.2	68.6	103.0
166	126.5	103.2	154.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	3	26	113	PH	17411257	2221070119	100.00%	73.584%
2	2.193	113	114	116	VV 2	378457	6149731	0.28%	0.204%
3	2.265	116	124	138	VV	395134	26360214	1.19%	0.873%
4	2.400	138	143	159	VV 2	73866	3755022	0.17%	0.124%
5	2.529	159	161	162	VV	16718	222830	0.01%	0.007%
6	2.551	162	164	168	VV 3	16382	349432	0.02%	0.012%
7	2.586	168	169	174	VV 4	14326	354620	0.02%	0.012%
8	2.651	174	178	180	VV 4	12891	306305	0.01%	0.010%
9	2.679	180	182	188	VV 5	12200	418034	0.02%	0.014%
10	2.744	188	191	200	VV 7	12827	610268	0.03%	0.020%
11	2.829	200	203	204	VV 2	13094	224832	0.01%	0.007%
12	2.844	204	205	208	VV 2	12841	171915	0.01%	0.006%
13	2.872	208	209	216	VV 5	10358	318443	0.01%	0.011%
14	2.937	216	218	220	VV 2	8770	152339	0.01%	0.005%
15	2.980	220	224	226	VV 2	9122	193485	0.01%	0.006%
16	3.008	226	228	235	VV 4	8045	279764	0.01%	0.009%
17	3.130	235	245	270	VV 3	348957	13746011	0.62%	0.455%
18	3.323	270	272	280	VV 3	8140	293381	0.01%	0.010%
19	3.437	280	288	298	VV 4	8062	478793	0.02%	0.016%
20	3.523	298	300	302	VV	5869	85217	0.00%	0.003%
21	3.552	302	304	309	VV 2	6085	164430	0.01%	0.005%
22	3.602	309	311	321	VV 6	5767	236719	0.01%	0.008%
23	3.695	321	324	329	VV 2	5449	157048	0.01%	0.005%
24	3.737	329	330	334	VV 2	4821	81719	0.00%	0.003%
25	3.773	334	335	337	VV 2	4681	56731	0.00%	0.002%
26	3.816	337	341	346	VV 2	4647	156938	0.01%	0.005%
27	3.888	346	351	353	VV 3	8411	184063	0.01%	0.006%
28	3.923	353	356	363	VV 6	8211	331920	0.01%	0.011%
29	3.981	363	364	368	VV 2	7555	137607	0.01%	0.005%
30	4.016	368	369	373	VV 2	6518	129140	0.01%	0.004%
31	4.074	373	377	379	VV 2	6284	129090	0.01%	0.004%
32	4.159	379	389	399	VV 6	11266	615871	0.03%	0.020%
33	4.252	399	402	404	VV	5088	88811	0.00%	0.003%
34	4.274	404	405	411	VV 2	5611	142926	0.01%	0.005%
35	4.331	411	413	423	VV	7303	279008	0.01%	0.009%
36	4.417	423	425	427	VV 2	5006	93052	0.00%	0.003%
37	4.460	427	431	433	VV	4864	101325	0.00%	0.003%
38	4.488	433	435	437	VV 2	4320	68782	0.00%	0.002%
39	4.517	437	439	440	VV 2	4716	58897	0.00%	0.002%
40	4.553	440	444	446	VV 2	4728	104262	0.00%	0.003%
41	4.581	446	448	451	VV 2	4691	96032	0.00%	0.003%
42	4.631	451	455	463	VV 3	4275	205400	0.01%	0.007%
43	4.717	463	467	469	VV 3	4662	100306	0.00%	0.003%
44	4.739	469	470	472	VV 2	4321	62093	0.00%	0.002%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.767	472	474	478	VV 2	4746	98646	0.00%	0.003%
46	4.824	478	482	485	VV 2	4630	112275	0.01%	0.004%
47	4.853	485	486	490	VV	4769	98249	0.00%	0.003%
48	4.896	490	492	495	VV 2	4265	83565	0.00%	0.003%
49	4.974	495	503	521	VV 5	31187	1740252	0.08%	0.058%
50	5.132	521	525	527	VV 2	5281	120171	0.01%	0.004%
51	5.160	527	529	533	VV 2	5560	110680	0.00%	0.004%
52	5.203	533	535	537	VV	5085	83061	0.00%	0.003%
53	5.232	537	539	541	VV	5214	73309	0.00%	0.002%
54	5.261	541	543	545	VV 2	4500	73871	0.00%	0.002%
55	5.325	545	552	555	VV 2	5313	176642	0.01%	0.006%
56	5.361	555	557	563	VV	4725	148616	0.01%	0.005%
57	5.418	563	565	567	VV 2	4782	65101	0.00%	0.002%
58	5.439	567	568	575	VV 2	4699	145431	0.01%	0.005%
59	5.511	575	578	580	VV 2	4605	81300	0.00%	0.003%
60	5.554	580	584	586	VV 3	4591	101417	0.00%	0.003%
61	5.582	586	588	591	VV 2	4419	87666	0.00%	0.003%
62	5.618	591	593	596	VV 2	4818	85237	0.00%	0.003%
63	5.654	596	598	600	VV 2	4692	73959	0.00%	0.002%
64	5.682	600	602	603	VV 2	4598	58904	0.00%	0.002%
65	5.704	603	605	607	VV	5153	66427	0.00%	0.002%
66	5.747	607	611	613	VV 2	4837	106829	0.00%	0.004%
67	5.840	613	624	653	VV	768398	27827214	1.25%	0.922%
68	6.061	653	655	661	VV 4	9040	282239	0.01%	0.009%
69	6.161	661	669	672	VV 8	9345	381486	0.02%	0.013%
70	6.254	672	682	709	VV	317452	12138093	0.55%	0.402%
71	6.476	709	713	721	VV 6	7561	337130	0.02%	0.011%
72	6.548	721	723	726	VV 2	7108	135411	0.01%	0.004%
73	6.583	726	728	733	VV 2	5804	149402	0.01%	0.005%
74	6.669	733	740	763	VV	91111	4288981	0.19%	0.142%
75	6.848	763	765	768	VV 2	9329	180728	0.01%	0.006%
76	6.884	768	770	773	VV	9077	166702	0.01%	0.006%
77	6.919	773	775	782	VV 3	8065	270813	0.01%	0.009%
78	6.984	782	784	785	VV	7855	119856	0.01%	0.004%
79	7.069	785	796	816	VV	594743	20170520	0.91%	0.668%
80	7.284	816	826	839	VV 2	190069	6770474	0.30%	0.224%
81	7.384	839	840	856	VV	19727	741596	0.03%	0.025%
82	7.513	856	858	862	VV 3	6984	151365	0.01%	0.005%
83	7.556	862	864	868	VV 3	6254	155798	0.01%	0.005%
84	7.606	868	871	876	VV 3	6505	212254	0.01%	0.007%
85	7.684	876	882	888	VV 3	7155	337522	0.02%	0.011%
86	7.742	888	890	893	VV 2	6474	109278	0.00%	0.004%
87	7.777	893	895	897	VV	6522	117252	0.01%	0.004%
88	7.835	897	903	909	VV 3	5551	249330	0.01%	0.008%
89	7.892	909	911	915	VV 2	5801	151166	0.01%	0.005%
90	8.006	915	927	979	VV	14752297	458955760	20.66%	15.205%
91	8.385	979	980	982	VV 2	11354	160869	0.01%	0.005%

0460

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	8.414	982	984	986	VV	2	10753	164012	0.01%	0.005%
93	8.450	986	989	993	VV	3	10509	279209	0.01%	0.009%
94	8.507	993	997	1002	VV	2	9387	332036	0.01%	0.011%
95	8.557	1002	1004	1005	VV	2	8587	99802	0.00%	0.003%
96	8.635	1005	1015	1037	VV		381261	13014677	0.59%	0.431%
97	8.807	1037	1039	1047	VV	6	10107	373385	0.02%	0.012%
98	8.900	1047	1052	1058	VV	4	9006	391738	0.02%	0.013%
99	8.957	1058	1060	1066	VV	4	7928	244172	0.01%	0.008%
100	9.014	1066	1068	1070	VV	2	7329	92184	0.00%	0.003%
101	9.036	1070	1071	1076	VV	2	7147	189929	0.01%	0.006%
102	9.086	1076	1078	1081	VV	2	7779	131236	0.01%	0.004%
103	9.136	1081	1085	1089	VV	2	6803	223519	0.01%	0.007%
104	9.179	1089	1091	1096	VV	2	7190	186092	0.01%	0.006%
105	9.250	1096	1101	1105	VV	3	7638	268552	0.01%	0.009%
106	9.293	1105	1107	1110	VV	3	6736	115198	0.01%	0.004%
107	9.329	1110	1112	1114	VV	2	7235	135955	0.01%	0.005%
108	9.358	1114	1116	1118	VV		7340	112846	0.01%	0.004%
109	9.415	1118	1124	1130	VV	5	8416	369238	0.02%	0.012%
110	9.472	1130	1132	1133	VV		6560	81020	0.00%	0.003%
111	9.529	1133	1140	1143	VV	3	7073	276513	0.01%	0.009%
112	9.572	1143	1146	1151	VV	2	7067	217202	0.01%	0.007%
113	9.636	1151	1155	1158	VV	3	6694	179468	0.01%	0.006%
114	9.679	1158	1161	1165	VV	3	6893	213273	0.01%	0.007%
115	9.722	1165	1167	1170	VV	2	6902	125900	0.01%	0.004%
116	9.758	1170	1172	1173	VV	2	6533	90441	0.00%	0.003%
117	9.844	1173	1184	1209	VV	2	451636	14149885	0.64%	0.469%
118	10.030	1209	1210	1214	VV		10322	196505	0.01%	0.007%
119	10.087	1214	1218	1221	VV	4	8752	271510	0.01%	0.009%
120	10.180	1221	1231	1240	VV		759352	20903451	0.94%	0.693%
121	10.259	1240	1242	1260	VV	2	51710	1724421	0.08%	0.057%
122	10.402	1260	1262	1266	VV	3	8418	200825	0.01%	0.007%
123	10.437	1266	1267	1271	VV		8626	175641	0.01%	0.006%
124	10.516	1271	1278	1280	VV	3	8254	267342	0.01%	0.009%
125	10.537	1280	1281	1284	VV	2	7121	127696	0.01%	0.004%
126	10.602	1284	1290	1292	VV	3	7708	249298	0.01%	0.008%
127	10.623	1292	1293	1295	VV	2	7472	101465	0.00%	0.003%
128	10.659	1295	1298	1300	VV	2	8205	152503	0.01%	0.005%
129	10.709	1300	1305	1311	VV	2	7986	316252	0.01%	0.010%
130	10.766	1311	1313	1315	VV		7786	118891	0.01%	0.004%
131	10.866	1315	1327	1360	VV	2	360875	20014916	0.90%	0.663%
132	11.159	1360	1368	1373	VV	8	12844	552126	0.02%	0.018%
133	11.202	1373	1374	1383	VV	6	10369	434377	0.02%	0.014%
134	11.295	1383	1387	1389	VV	2	8247	171942	0.01%	0.006%
135	11.324	1389	1391	1393	VV		8364	145423	0.01%	0.005%
136	11.352	1393	1395	1401	VV	5	7824	239719	0.01%	0.008%
137	11.417	1401	1404	1406	VV	3	8202	187756	0.01%	0.006%
138	11.445	1406	1408	1411	VV	2	7752	149710	0.01%	0.005%
139	11.481	1411	1413	1417	VV	2	8202	187219	0.01%	0.006%

0451

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.524	1417	1419	1421	VV		8014	131771	0.01%	0.004%
141	11.567	1421	1425	1427	VV	3	8262	185157	0.01%	0.006%
142	11.624	1427	1433	1434	VV	2	7620	204382	0.01%	0.007%
143	11.639	1434	1435	1439	VV	3	7853	164063	0.01%	0.005%
144	11.681	1439	1441	1442	VV		7648	94750	0.00%	0.003%
145	11.746	1442	1450	1453	VV	3	8579	338869	0.02%	0.011%
146	11.782	1453	1455	1461	VV	2	8156	252642	0.01%	0.008%
147	11.846	1461	1464	1468	VV	3	7855	206579	0.01%	0.007%
148	11.882	1468	1469	1473	VV		7082	151304	0.01%	0.005%
149	11.925	1473	1475	1484	VV	3	8267	338250	0.02%	0.011%
150	12.017	1484	1488	1494	VV	3	7846	308493	0.01%	0.010%
151	12.075	1494	1496	1497	VV		7513	104787	0.00%	0.003%
152	12.096	1497	1499	1503	VV		7841	207884	0.01%	0.007%
153	12.211	1503	1515	1533	VV		357262	11267589	0.51%	0.373%
154	12.354	1533	1535	1543	VV	4	15610	539858	0.02%	0.018%
155	12.418	1543	1544	1548	VV	3	12222	242571	0.01%	0.008%
156	12.461	1548	1550	1553	VV	3	11370	235518	0.01%	0.008%
157	12.511	1553	1557	1564	VV	3	10080	437699	0.02%	0.015%
158	12.640	1564	1575	1590	VV		299129	8933420	0.40%	0.296%
159	12.754	1590	1591	1593	VV		12972	161360	0.01%	0.005%
160	12.775	1593	1594	1604	VV	6	12916	491508	0.02%	0.016%
161	12.861	1604	1606	1612	VV	3	9665	300536	0.01%	0.010%
162	12.933	1612	1616	1618	VV	2	9639	219786	0.01%	0.007%
163	12.954	1618	1619	1624	VV	2	8898	246170	0.01%	0.008%
164	13.047	1624	1632	1636	VV	6	11571	464592	0.02%	0.015%
165	13.090	1636	1638	1641	VV	2	9020	200085	0.01%	0.007%
166	13.126	1641	1643	1647	VV	4	8391	195035	0.01%	0.006%
167	13.169	1647	1649	1651	VV	2	9504	168909	0.01%	0.006%
168	13.219	1651	1656	1662	VV		13609	368966	0.02%	0.012%
169	13.276	1662	1664	1668	VV	3	8648	210484	0.01%	0.007%
170	13.312	1668	1669	1671	VV		8479	107976	0.00%	0.004%
171	13.340	1671	1673	1677	VV	2	9086	194663	0.01%	0.006%
172	13.376	1677	1678	1681	VV	2	8204	143522	0.01%	0.005%
173	13.433	1681	1686	1688	VV	2	8360	239820	0.01%	0.008%
174	13.462	1688	1690	1691	VV	2	8464	106843	0.00%	0.004%
175	13.476	1691	1692	1696	VV		8014	162906	0.01%	0.005%
176	13.519	1696	1698	1700	VV		8066	117810	0.01%	0.004%
177	13.548	1700	1702	1706	VV	2	7895	191267	0.01%	0.006%
178	13.591	1706	1708	1711	VV	2	8380	191390	0.01%	0.006%
179	13.626	1711	1713	1721	VV	2	7983	322711	0.01%	0.011%
180	13.698	1721	1723	1725	VV	2	7990	109772	0.00%	0.004%
181	13.748	1725	1730	1731	VV	2	9434	246764	0.01%	0.008%
182	13.769	1731	1733	1734	VV	2	9342	121041	0.01%	0.004%
183	13.791	1734	1736	1740	VV	3	9295	183550	0.01%	0.006%
184	13.826	1740	1741	1749	VV	2	8466	345981	0.02%	0.011%
185	13.898	1749	1751	1755	VV	2	8167	172898	0.01%	0.006%
186	14.020	1755	1768	1771	VV	3	8465	544739	0.02%	0.018%

0482

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.048	1771	1772	1777	VV	2	8292	199660	0.01%	0.007%
188	14.098	1777	1779	1781	VV		8782	152877	0.01%	0.005%
189	14.134	1781	1784	1786	VV	2	8724	152233	0.01%	0.005%
190	14.198	1786	1793	1795	VV		11459	322703	0.01%	0.011%
191	14.227	1795	1797	1801	VV	3	7744	191893	0.01%	0.006%
192	14.270	1801	1803	1805	VV	2	7803	122333	0.01%	0.004%
193	14.306	1805	1808	1813	VV	4	8621	274183	0.01%	0.009%
194	14.363	1813	1816	1817	VV	2	8184	131735	0.01%	0.004%
195	14.384	1817	1819	1823	VV	3	8707	191673	0.01%	0.006%
196	14.456	1823	1829	1832	VV	3	8254	293572	0.01%	0.010%
197	14.484	1832	1833	1835	VV		7976	110999	0.00%	0.004%
198	14.527	1835	1839	1844	VV	3	8387	318410	0.01%	0.011%
199	14.592	1844	1848	1850	VV	2	8279	188472	0.01%	0.006%
200	14.620	1850	1852	1860	VV	3	8728	355479	0.02%	0.012%
201	14.699	1860	1863	1868	VV	3	8563	244121	0.01%	0.008%
202	14.785	1868	1875	1879	VV	3	8999	397482	0.02%	0.013%
203	14.820	1879	1880	1887	VV	2	8649	263576	0.01%	0.009%
204	14.899	1887	1891	1893	VV	2	8476	202057	0.01%	0.007%
205	14.978	1893	1902	1912	VV	2	126290	3975851	0.18%	0.132%
206	15.114	1912	1921	1933	VV	2	182072	5435397	0.24%	0.180%
207	15.221	1933	1936	1938	VV	2	10917	220654	0.01%	0.007%
208	15.242	1938	1939	1943	VV	2	10526	238477	0.01%	0.008%
209	15.285	1943	1945	1948	VV	2	9269	175006	0.01%	0.006%
210	15.321	1948	1950	1954	VV	2	8685	204992	0.01%	0.007%
211	15.400	1954	1961	1964	VV	4	9125	370394	0.02%	0.012%
212	15.435	1964	1966	1970	VV	3	8893	223735	0.01%	0.007%
213	15.478	1970	1972	1982	VV	2	8648	422887	0.02%	0.014%
214	15.564	1982	1984	1986	VV	3	8856	146210	0.01%	0.005%
215	15.593	1986	1988	1993	VV		8378	222792	0.01%	0.007%
216	15.643	1993	1995	1998	VV	3	8726	176358	0.01%	0.006%
217	15.686	1998	2001	2002	VV	3	8767	156132	0.01%	0.005%
218	15.707	2002	2004	2006	VV	2	8983	123188	0.01%	0.004%
219	15.757	2006	2011	2013	VV	2	10097	281576	0.01%	0.009%
220	15.836	2013	2022	2023	VV	2	9165	348292	0.02%	0.012%
221	15.857	2023	2025	2027	VV		10392	131660	0.01%	0.004%
222	15.886	2027	2029	2035	VV	2	9043	289642	0.01%	0.010%
223	15.943	2035	2037	2040	VV	2	8646	183463	0.01%	0.006%
224	15.979	2040	2042	2045	VV		9922	179994	0.01%	0.006%
225	16.014	2045	2047	2048	VV		9122	112415	0.01%	0.004%
226	16.050	2048	2052	2055	VV	3	9163	246540	0.01%	0.008%
227	16.093	2055	2058	2061	VV	3	10637	244798	0.01%	0.008%
228	16.122	2061	2062	2069	VV	3	9131	299148	0.01%	0.010%
229	16.186	2069	2071	2076	VV	3	9210	278055	0.01%	0.009%
230	16.265	2076	2082	2084	VV	3	9670	273330	0.01%	0.009%
231	16.308	2084	2088	2096	VV	4	13424	543595	0.02%	0.018%
232	16.379	2096	2098	2102	VV	2	8627	227204	0.01%	0.008%
233	16.429	2102	2105	2106	VV	2	9159	153575	0.01%	0.005%
234	16.451	2106	2108	2112	VV	2	8920	212626	0.01%	0.007%

0463

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.501	2112	2115	2116	VV	3	8702	139726	0.01%	0.005%
236	16.522	2116	2118	2120	VV	2	9077	151916	0.01%	0.005%
237	16.565	2120	2124	2126	VV	2	9320	224496	0.01%	0.007%
238	16.594	2126	2128	2133	VV	2	9383	245023	0.01%	0.008%
239	16.729	2133	2147	2164	VV		217460	6770847	0.30%	0.224%
240	16.872	2164	2167	2171	VV	3	10234	316564	0.01%	0.010%
241	16.915	2171	2173	2176	VV	2	9547	198634	0.01%	0.007%
242	16.958	2176	2179	2181	VV	3	9493	185675	0.01%	0.006%
243	16.980	2181	2182	2185	VV		9615	163407	0.01%	0.005%
244	17.015	2185	2187	2189	VV	2	9412	140104	0.01%	0.005%
245	17.066	2189	2194	2199	VV	2	10715	385815	0.02%	0.013%
246	17.116	2199	2201	2203	VV	2	9432	153296	0.01%	0.005%
247	17.151	2203	2206	2208	VV		9913	193263	0.01%	0.006%
248	17.173	2208	2209	2211	VV	2	9249	125904	0.01%	0.004%
249	17.201	2211	2213	2216	VV	2	9943	173209	0.01%	0.006%
250	17.237	2216	2218	2219	VV		9036	142727	0.01%	0.005%
251	17.259	2219	2221	2223	VV		8946	113902	0.01%	0.004%
252	17.344	2223	2233	2235	VV	3	9567	489364	0.02%	0.016%
253	17.380	2235	2238	2243	VV	2	9486	271318	0.01%	0.009%
254	17.480	2243	2252	2267	VV		482708	13229776	0.60%	0.438%
255	17.602	2267	2269	2270	VV	2	10865	131151	0.01%	0.004%
256	17.623	2270	2272	2281	VV	4	10967	487508	0.02%	0.016%
257	17.702	2281	2283	2284	VV	2	10012	135911	0.01%	0.005%
258	17.723	2284	2286	2288	VV	3	9907	160130	0.01%	0.005%
259	17.759	2288	2291	2296	VV	3	10250	311661	0.01%	0.010%
260	17.802	2296	2297	2300	VV		9302	155825	0.01%	0.005%
261	17.838	2300	2302	2304	VV	2	9427	144327	0.01%	0.005%
262	17.874	2304	2307	2310	VV	2	9936	251747	0.01%	0.008%
263	17.938	2310	2316	2323	VV	3	10342	522179	0.02%	0.017%
264	17.995	2323	2324	2326	VV	2	10260	133382	0.01%	0.004%
265	18.024	2326	2328	2332	VV		11137	229846	0.01%	0.008%
266	18.059	2332	2333	2336	VV	2	9402	156204	0.01%	0.005%
267	18.095	2336	2338	2340	VV		9866	166919	0.01%	0.006%
268	18.145	2340	2345	2349	VV		9845	337526	0.02%	0.011%
269	18.181	2349	2350	2352	VV		10077	153458	0.01%	0.005%
270	18.210	2352	2354	2360	VV	2	9970	299132	0.01%	0.010%
271	18.317	2360	2369	2371	VV	2	10465	448495	0.02%	0.015%
272	18.417	2371	2383	2393	VV	2	44821	1807429	0.08%	0.060%
273	18.503	2393	2395	2399	VV	3	9791	235316	0.01%	0.008%
274	18.546	2399	2401	2403	VV		9939	141160	0.01%	0.005%
275	18.567	2403	2404	2408	VV	2	9537	222464	0.01%	0.007%
276	18.624	2408	2412	2416	VV		10383	316400	0.01%	0.010%
277	18.696	2416	2422	2425	VV	2	10897	366648	0.02%	0.012%
278	18.732	2425	2427	2430	VV	2	9525	187623	0.01%	0.006%
279	18.767	2430	2432	2437	VV	2	9974	286911	0.01%	0.010%
280	18.817	2437	2439	2441	VV		9863	156847	0.01%	0.005%
281	18.839	2441	2442	2450	VV	2	10643	376433	0.02%	0.012%

0464

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	18.925	2450	2454	2456	VV 2	10140	247762	0.01%	0.008%
283	18.946	2456	2457	2459	VV	10129	136671	0.01%	0.005%
284	18.975	2459	2461	2465	VV 2	9807	224128	0.01%	0.007%
285	19.010	2465	2466	2475	VV 2	9862	425899	0.02%	0.014%
286	19.089	2475	2477	2485	VV 3	10032	380865	0.02%	0.013%
287	19.161	2485	2487	2496	VV 3	10098	482844	0.02%	0.016%
288	19.261	2496	2501	2505	VV 3	11041	387171	0.02%	0.013%
289	19.311	2505	2508	2510	VV	15875	240070	0.01%	0.008%
290	19.368	2510	2516	2517	VV 2	10366	289078	0.01%	0.010%
291	19.404	2517	2521	2526	VV 3	10712	393115	0.02%	0.013%
292	19.454	2526	2528	2534	VV 2	9976	311150	0.01%	0.010%
293	19.525	2534	2538	2541	VV 3	9832	317409	0.01%	0.011%
294	19.575	2541	2545	2547	VV	10522	224600	0.01%	0.007%
295	19.604	2547	2549	2551	VV	10107	197438	0.01%	0.007%
296	19.632	2551	2553	2563	VV 2	10286	499024	0.02%	0.017%
297	19.733	2563	2567	2568	VV 2	10320	219091	0.01%	0.007%
298	19.754	2568	2570	2575	VV 2	10252	309620	0.01%	0.010%
299	19.804	2575	2577	2579	VV	10668	152305	0.01%	0.005%
300	19.833	2579	2581	2585	VV 3	10902	287488	0.01%	0.010%
301	19.890	2585	2589	2592	VV 2	10644	288407	0.01%	0.010%
302	19.926	2592	2594	2596	VV	10533	137067	0.01%	0.005%
303	19.947	2596	2597	2599	VV	10398	159913	0.01%	0.005%
304	19.983	2599	2602	2604	VV 2	10589	196583	0.01%	0.007%
305	20.011	2604	2606	2607	VV	10529	137246	0.01%	0.005%
306	20.054	2607	2612	2616	VV 2	10712	357757	0.02%	0.012%
307	20.119	2616	2621	2628	VV 3	10340	510575	0.02%	0.017%
308	20.183	2628	2630	2632	VV 2	10268	184065	0.01%	0.006%
309	20.212	2632	2634	2636	VV	10740	164889	0.01%	0.005%
310	20.240	2636	2638	2641	VV 2	11020	238625	0.01%	0.008%
311	20.290	2641	2645	2653	VV 3	10491	511781	0.02%	0.017%
312	20.362	2653	2655	2659	VV 2	10355	267951	0.01%	0.009%
313	20.412	2659	2662	2665	VV	10341	225680	0.01%	0.007%
314	20.440	2665	2666	2668	VV	10178	127687	0.01%	0.004%
315	20.476	2668	2671	2675	VV 2	10712	290716	0.01%	0.010%
316	20.519	2675	2677	2680	VV 2	10276	218021	0.01%	0.007%
317	20.569	2680	2684	2689	VV 3	10585	406543	0.02%	0.013%
318	20.634	2689	2693	2695	VV 2	10809	240740	0.01%	0.008%
319	20.662	2695	2697	2702	VV 2	11095	310655	0.01%	0.010%
320	20.712	2702	2704	2705	VV	10418	151684	0.01%	0.005%
321	20.734	2705	2707	2709	VV	10681	151388	0.01%	0.005%
322	20.762	2709	2711	2713	VV 2	11035	196444	0.01%	0.007%
323	20.798	2713	2716	2718	VV	11187	236730	0.01%	0.008%
324	20.848	2718	2723	2726	VV 2	10332	319891	0.01%	0.011%
325	20.884	2726	2728	2730	VV 2	10661	181279	0.01%	0.006%
326	20.934	2730	2735	2743	VV 2	11115	573747	0.03%	0.019%
327	21.091	2743	2757	2766	VV 2	11199	1021238	0.05%	0.034%
328	21.170	2766	2768	2772	VV 3	10622	275156	0.01%	0.009%
329	21.220	2772	2775	2778	VV	11133	247157	0.01%	0.008%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.270	2778	2782	2785	VV	11171	306210	0.01%	0.010%
331	21.370	2785	2796	2800	VV 3	10963	668448	0.03%	0.022%
332	21.413	2800	2802	2804	VV	11035	222910	0.01%	0.007%
333	21.449	2804	2807	2811	VV 2	11267	313175	0.01%	0.010%
334	21.492	2811	2813	2819	VV 3	10975	364266	0.02%	0.012%
335	21.549	2819	2821	2823	VV 2	10460	152909	0.01%	0.005%
336	21.577	2823	2825	2826	VV	10925	145949	0.01%	0.005%
337	21.599	2826	2828	2833	VV	11731	313105	0.01%	0.010%
338	21.649	2833	2835	2839	VV 2	11606	293302	0.01%	0.010%
339	21.727	2839	2846	2855	VV 5	15682	846673	0.04%	0.028%
340	21.820	2855	2859	2862	VV	11374	294159	0.01%	0.010%
341	21.863	2862	2865	2869	VV 2	11348	341035	0.02%	0.011%
342	21.921	2869	2873	2880	VV 2	11413	494458	0.02%	0.016%
343	22.006	2880	2885	2887	VV 3	11217	313147	0.01%	0.010%
344	22.028	2887	2888	2891	VV	10853	166312	0.01%	0.006%
345	22.064	2891	2893	2895	VV 2	10909	169034	0.01%	0.006%
346	22.085	2895	2896	2898	VV 2	11313	175906	0.01%	0.006%
347	22.149	2898	2905	2910	VV 3	11587	533411	0.02%	0.018%
348	22.242	2910	2918	2921	VV 2	11500	521164	0.02%	0.017%
349	22.285	2921	2924	2926	VV 2	11605	224680	0.01%	0.007%
350	22.335	2926	2931	2942	VV 2	11328	752273	0.03%	0.025%
351	22.421	2942	2943	2945	VV	11777	158098	0.01%	0.005%
352	22.457	2945	2948	2952	VV 2	11371	318839	0.01%	0.011%
353	22.500	2952	2954	2959	VV 3	11034	329114	0.01%	0.011%
354	22.578	2959	2965	2969	VV 2	12127	469031	0.02%	0.016%
355	22.621	2969	2971	2978	VV	13684	440116	0.02%	0.015%
356	22.707	2978	2983	2985	VV 2	11554	307397	0.01%	0.010%
357	22.750	2985	2989	2997	VV 2	11813	582696	0.03%	0.019%
358	22.814	2997	2998	3002	VV 2	11603	249261	0.01%	0.008%
359	22.879	3002	3007	3008	VV 3	11655	306704	0.01%	0.010%
360	22.900	3008	3010	3018	VV 3	11169	466590	0.02%	0.015%
361	22.979	3018	3021	3023	VV 2	11806	217364	0.01%	0.007%
362	23.022	3023	3027	3030	VV	11942	329717	0.01%	0.011%
363	23.072	3030	3034	3044	VV 2	12084	699626	0.03%	0.023%
364	23.158	3044	3046	3050	VV 2	11427	264744	0.01%	0.009%
365	23.200	3050	3052	3054	VV	11674	199572	0.01%	0.007%
366	23.229	3054	3056	3058	VV 2	11507	217147	0.01%	0.007%
367	23.265	3058	3061	3062	VV 2	11217	183307	0.01%	0.006%
368	23.286	3062	3064	3069	VV 2	11718	344481	0.02%	0.011%
369	23.351	3069	3073	3076	VV 2	12026	312779	0.01%	0.010%
370	23.386	3076	3078	3082	VV 2	12245	295283	0.01%	0.010%
371	23.422	3082	3083	3086	VV 2	12159	225762	0.01%	0.007%
372	23.458	3086	3088	3091	VV 2	11954	255563	0.01%	0.008%
373	23.494	3091	3093	3100	VV 2	11950	427999	0.02%	0.014%
374	23.558	3100	3102	3103	VV	11746	155159	0.01%	0.005%
375	23.579	3103	3105	3107	VV	14125	224920	0.01%	0.007%
376	23.608	3107	3109	3111	VV	11537	158610	0.01%	0.005%

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

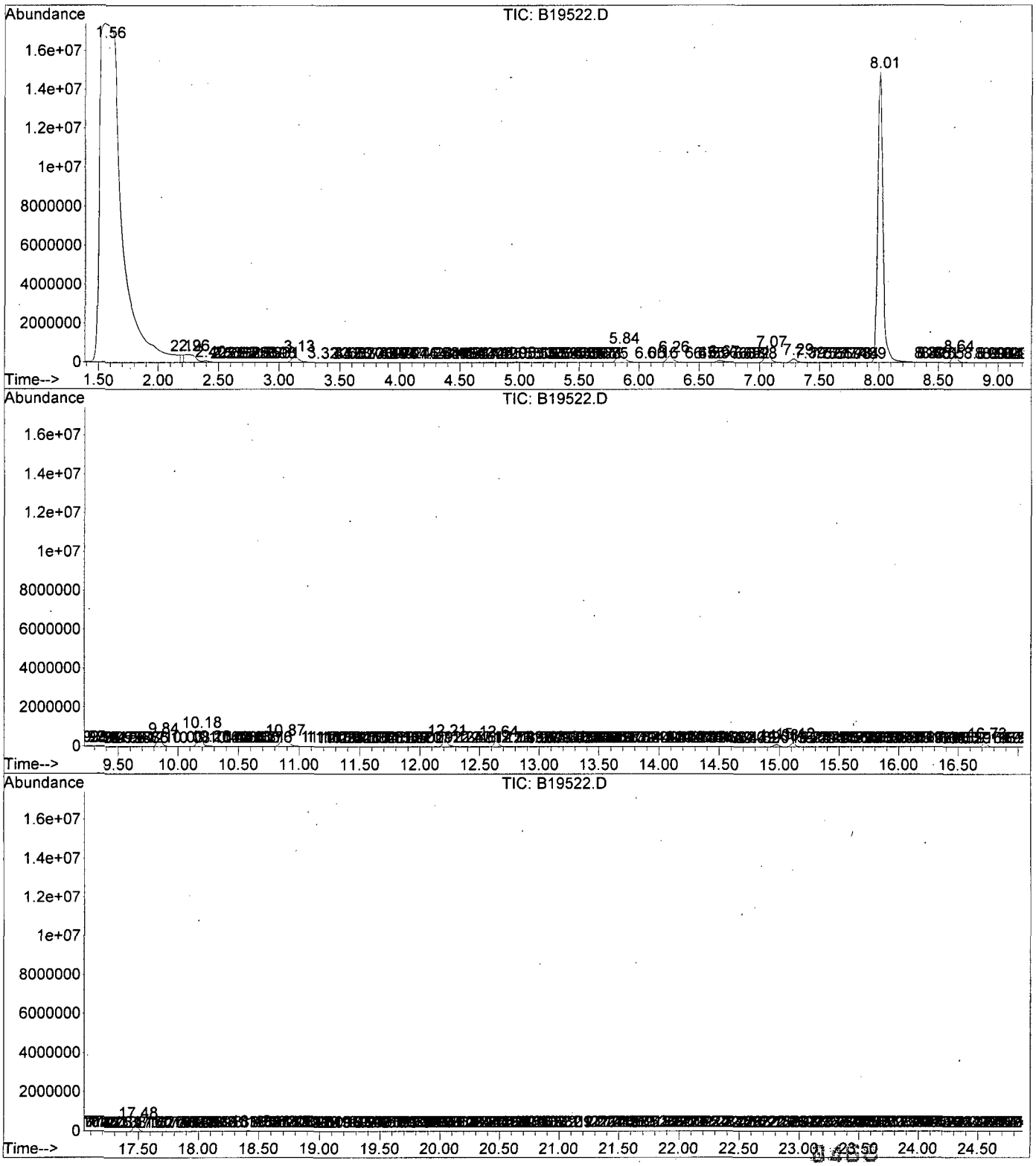
377	23.629	3111	3112	3114	VV	11583	149528	0.01%	0.005%
378	23.658	3114	3116	3120	VV 2	12250	311781	0.01%	0.010%
379	23.701	3120	3122	3132	VV 3	11800	619019	0.03%	0.021%
380	23.808	3132	3137	3139	VV 2	12741	360211	0.02%	0.012%
381	23.837	3139	3141	3147	VV 2	12557	358694	0.02%	0.012%
382	23.894	3147	3149	3153	VV	12344	316834	0.01%	0.010%
383	23.944	3153	3156	3159	VV 2	12822	325226	0.01%	0.011%
384	23.994	3159	3163	3167	VV 2	11969	404094	0.02%	0.013%
385	24.051	3167	3171	3175	VV 2	12174	396460	0.02%	0.013%
386	24.094	3175	3177	3179	VV	12462	175986	0.01%	0.006%
387	24.116	3179	3180	3186	VV	12489	383402	0.02%	0.013%
388	24.187	3186	3190	3191	VV 2	12587	259368	0.01%	0.009%
389	24.216	3191	3194	3199	VV 2	12545	366756	0.02%	0.012%
390	24.280	3199	3203	3206	VV 3	12148	376711	0.02%	0.012%
391	24.337	3206	3211	3217	VV 3	12814	577472	0.03%	0.019%
392	24.395	3217	3219	3224	VV 3	12859	386513	0.02%	0.013%
393	24.445	3224	3226	3235	VV 3	12405	561498	0.03%	0.019%
394	24.523	3235	3237	3245	VV 3	12939	503905	0.02%	0.017%
395	24.609	3245	3249	3253	VV 2	12793	422599	0.02%	0.014%
396	24.659	3253	3256	3258	VV 3	13464	267522	0.01%	0.009%
397	24.688	3258	3260	3261	VV 2	13263	192297	0.01%	0.006%
398	24.709	3261	3263	3265	VV 2	13093	191527	0.01%	0.006%
399	24.738	3265	3267	3269	VV 2	13044	218079	0.01%	0.007%
400	24.759	3269	3270	3278	VV 3	13740	485275	0.02%	0.016%
401	24.831	3278	3280	3281	VBA2	13710	167249	0.01%	0.006%

Sum of corrected areas: 3018433711

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

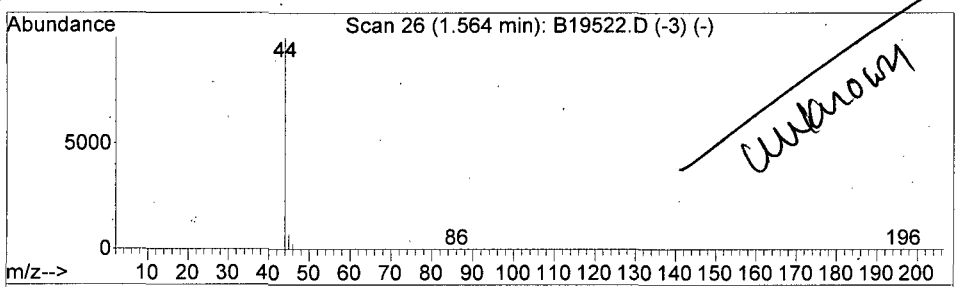
11/28/08

****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	24.20 ug/L	2221070000	1,4-Difluorobenzene	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	Acetaldehyde	44	C2H4O	000075-07-0	3
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Propane	44	C3H8	000074-98-6	2
5	d-Alanine	89	C3H7NO2	000338-69-2	2



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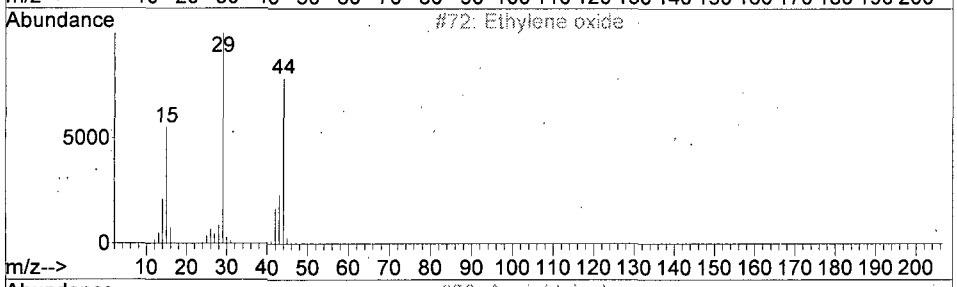
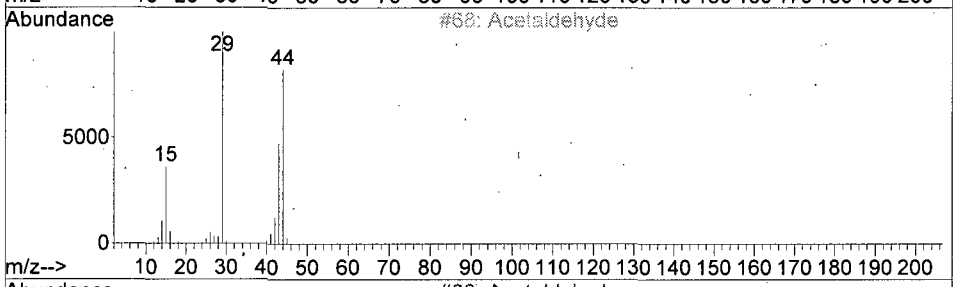
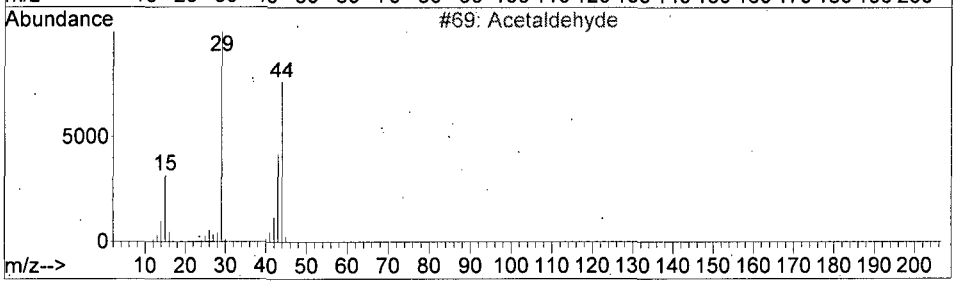
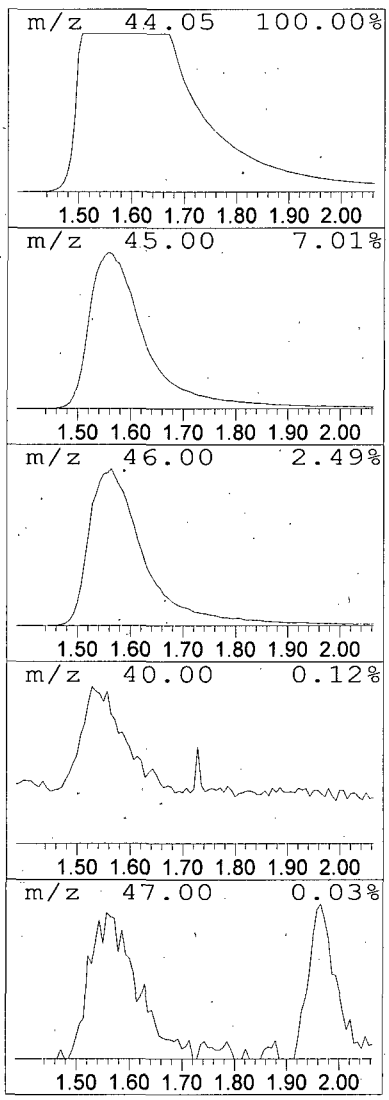








0469

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

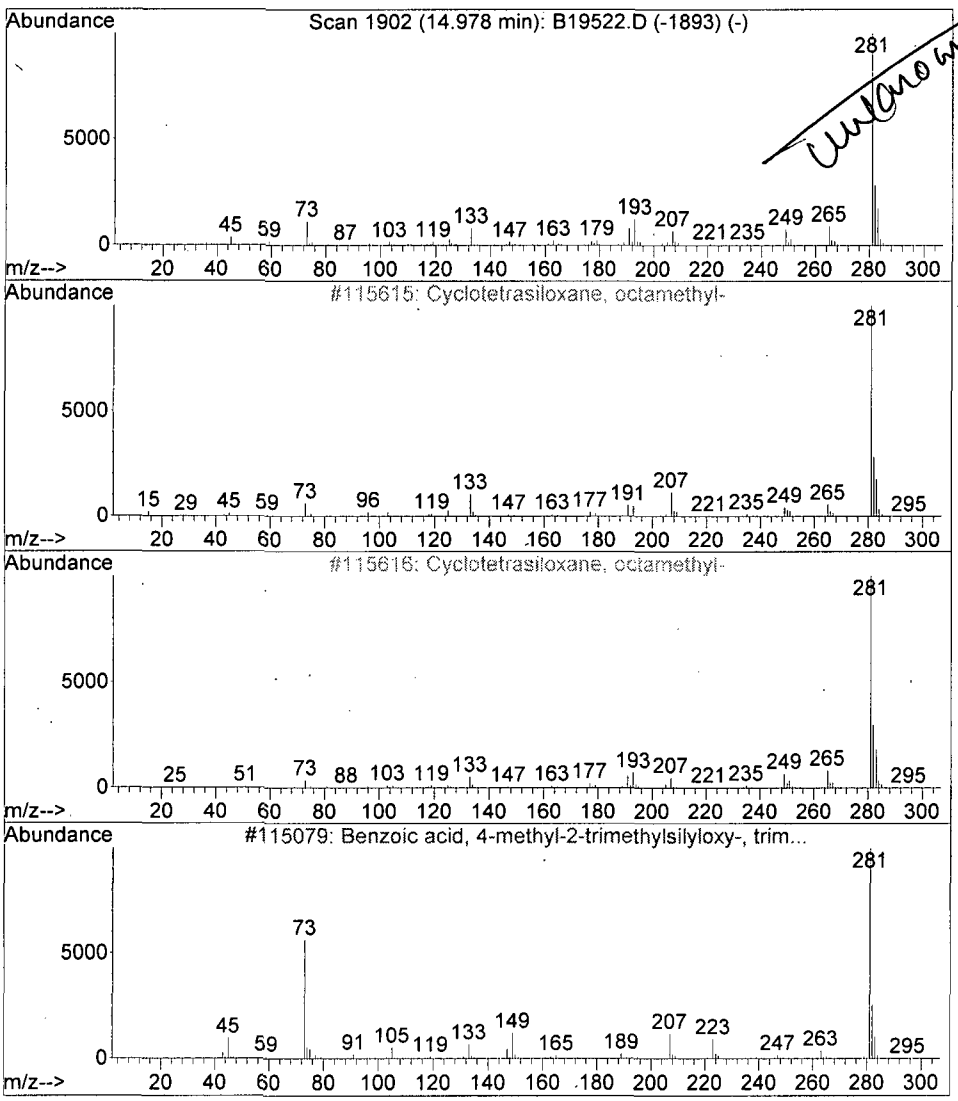
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

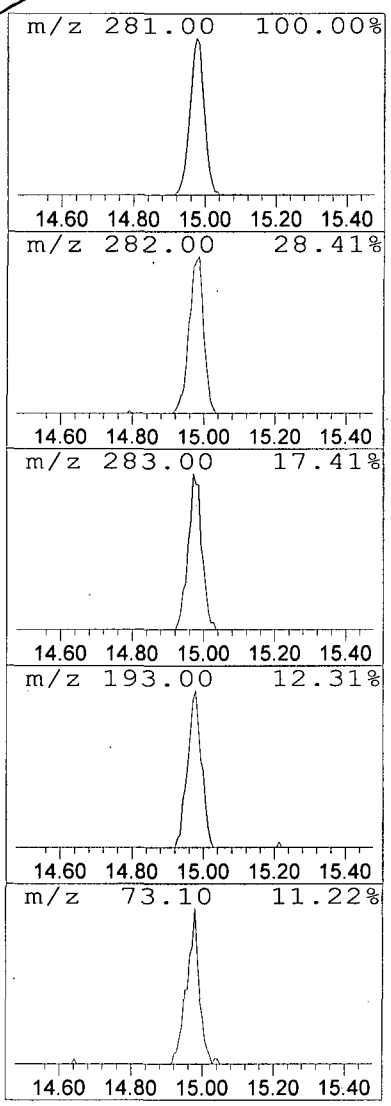
****

Peak Number 2 Cyclotetrasiloxane, octamet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	2.94 ug/L	3975850	1,4-Dichlorobenzene-d4	16.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	83
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	78
3	Benzoic acid, 4-methyl-2-trimeth...	296	C14H24O3Si2	1000153-59-3	50
4	Benzoic acid, 3-methyl-2-trimeth...	296	C14H24O3Si2	1000153-57-1	50
5	4H-1,2,4-Triazole-3-thiol, 4-all...	281	C16H15N3S	031803-13-1	50





0470

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

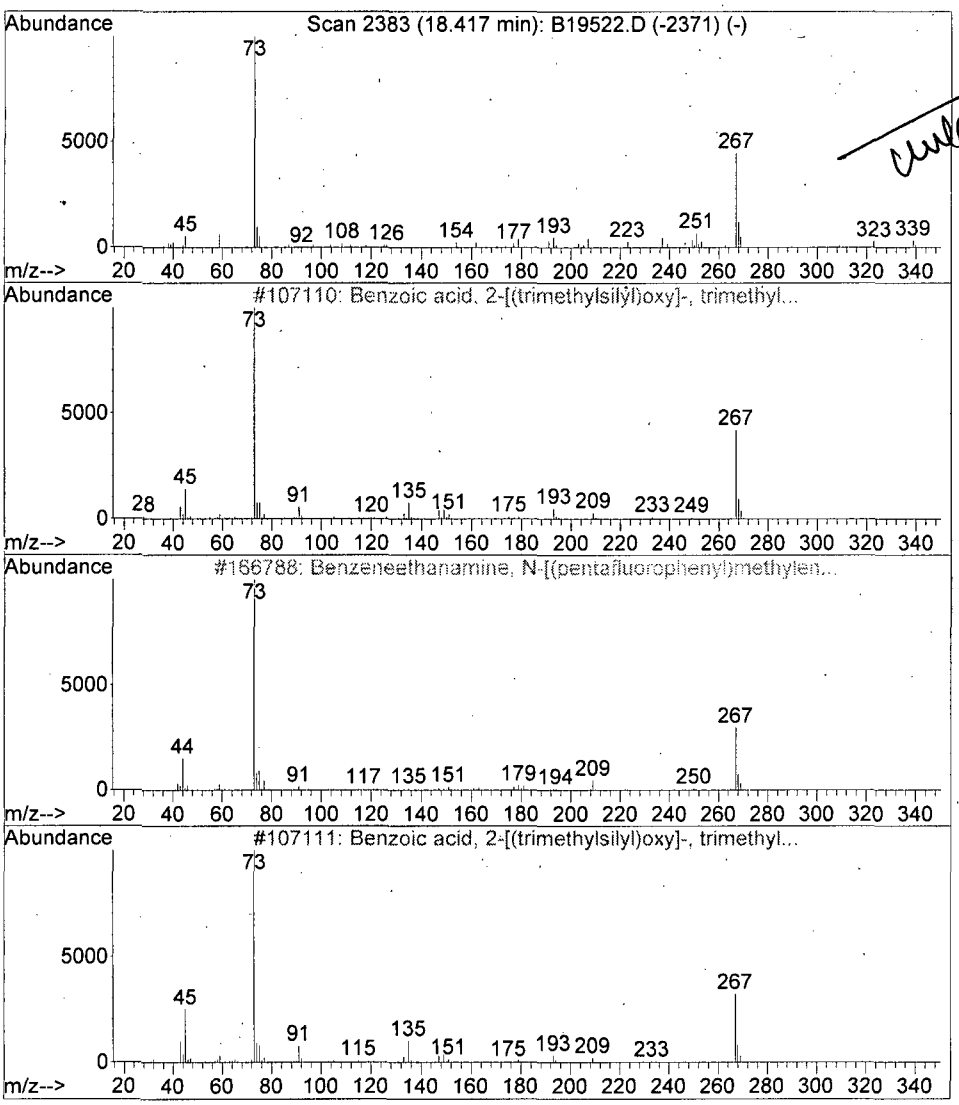
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

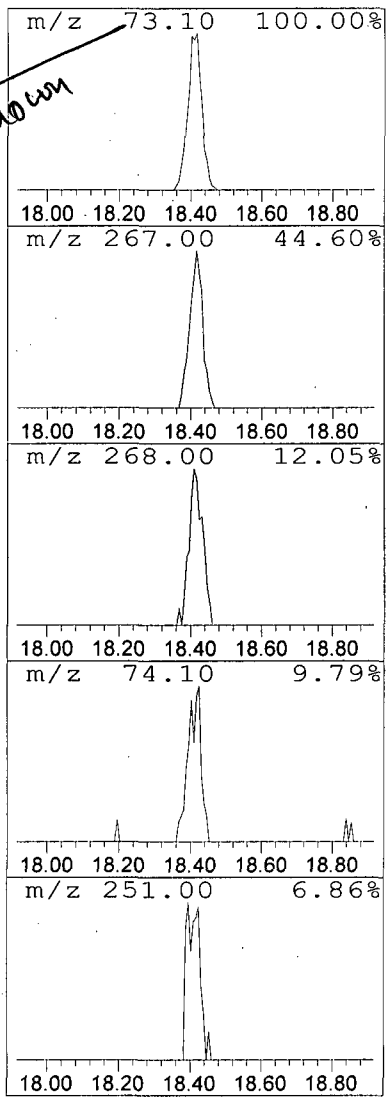
****

Peak Number 3 Benzoic acid, 2-[(trimethyl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.42	1.33 ug/L	1807430	1,4-Dichlorobenzene-d4	16.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	53
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	53
3	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	53
4	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	36
5	Benzoic acid, 4-[(trimethylsilyl...	282	C13H22O3Si2	002078-13-9	36





0471

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19522.D
Acq On : 11/26/08 12:24 Operator: SB
Sample : F2XG0 Inst : B-5973
Misc : S-2066.15 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	24.2	ug/L	2221070000	1	8.08	458956000	5.0
Cyclotetrasiloxan...	14.98	2.9	ug/L	3975850	3	16.73	6770850	5.0
Benzoic acid, 2-[...	18.42	1.3	ug/L	1807430	3	16.73	6770850	5.0

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XG0DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.15DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17037

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 20.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	100	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	9.3	DJ
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	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

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XG0DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.15DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17037

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 20.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	98	D
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	100	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	100	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
95-47-6	o-Xylene	10	U
179601-23-1	m,p-Xylene	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
87-61-6	1,2,3-Trichlorobenzene	10	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F2XG0DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.15DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17037

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 20.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.78	150	DJB
02		Unknown-02	10.78	25	DJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 11:16:24 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

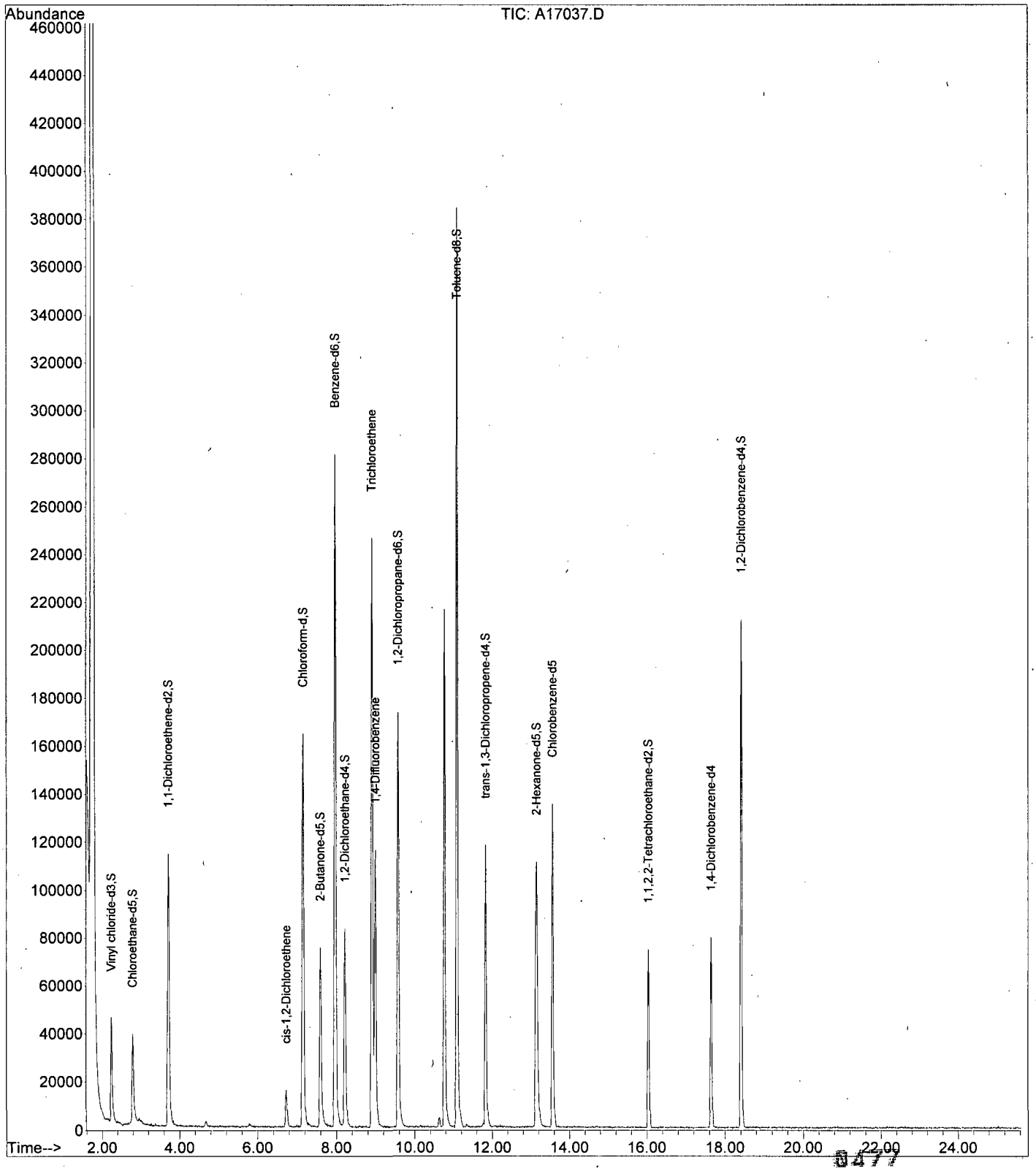
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1326442	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1131194	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	332148	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	733544	4.24	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 84.80%			
7) Chloroethane-d5	2.80	69	512041	5.01	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 100.20%			
10) 1,1-Dichloroethene-d2	3.73	63	1409169	3.31	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 66.20%			
21) 2-Butanone-d5	7.60	46	1499128	48.24	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 96.48%			
24) Chloroform-d	7.16	84	2003433	4.27	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 85.40%			
26) 1,2-Dichloroethane-d4	8.23	65	918807	4.90	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 98.00%			
32) Benzene-d6	7.98	84	3856300	4.62	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 92.40%			
36) 1,2-Dichloropropane-d6	9.59	67	1134410	4.58	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 91.60%			
41) Toluene-d8	11.10	98	3734161	4.88	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 97.60%			
43) trans-1,3-Dichloropropene-	11.84	79	904877	4.19	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 83.80%			
47) 2-Hexanone-d5	13.15	63	623607	50.01	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 100.02%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	562439	4.77	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 95.40%			
63) 1,2-Dichlorobenzene-d4	18.42	152	889907	5.89	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 117.80%			
Target Compounds						Qvalue
20) cis-1,2-Dichloroethene	6.74	96	99876	0.47	ug/L	95
34) Trichloroethene	8.92	95	1175563	4.89	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0476

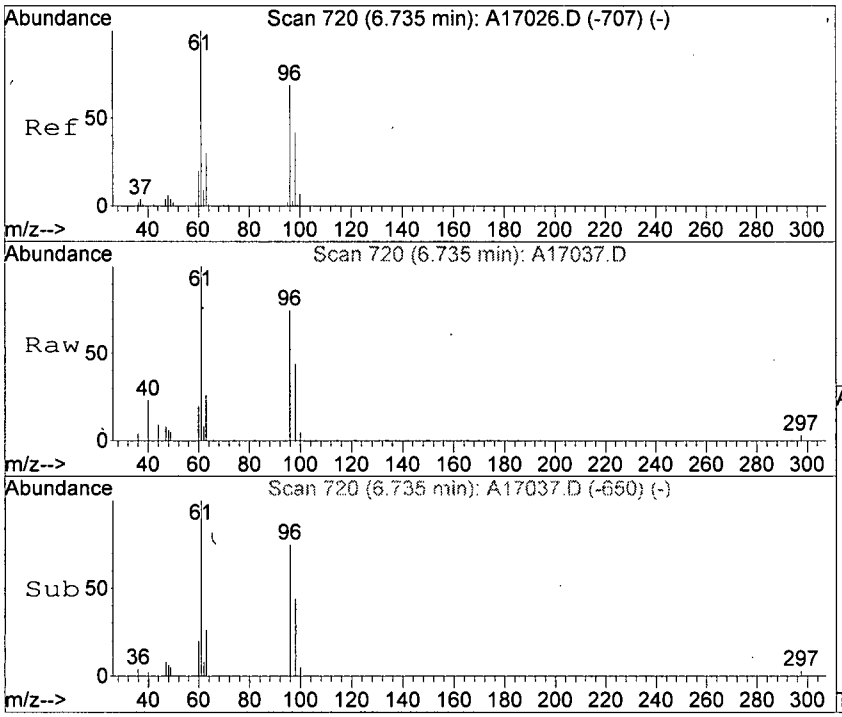
Data File: C:\MSDCHEM\1\DATA\A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 28 11:16:24 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



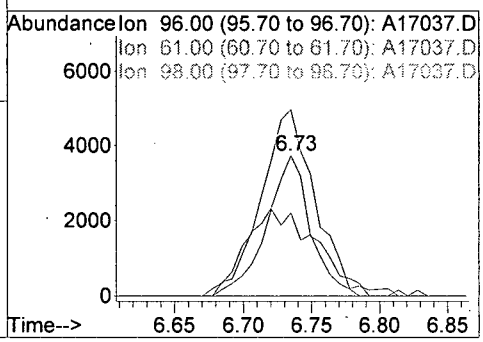
Data File : C:\MSDCHEM\1\DATA\A17037.D
Acq On : 11/27/08 00:47
Sample : F2XG0DL 20X
Misc : S-2066.15DL 25ML
MS Integration Params: LSCINT.E

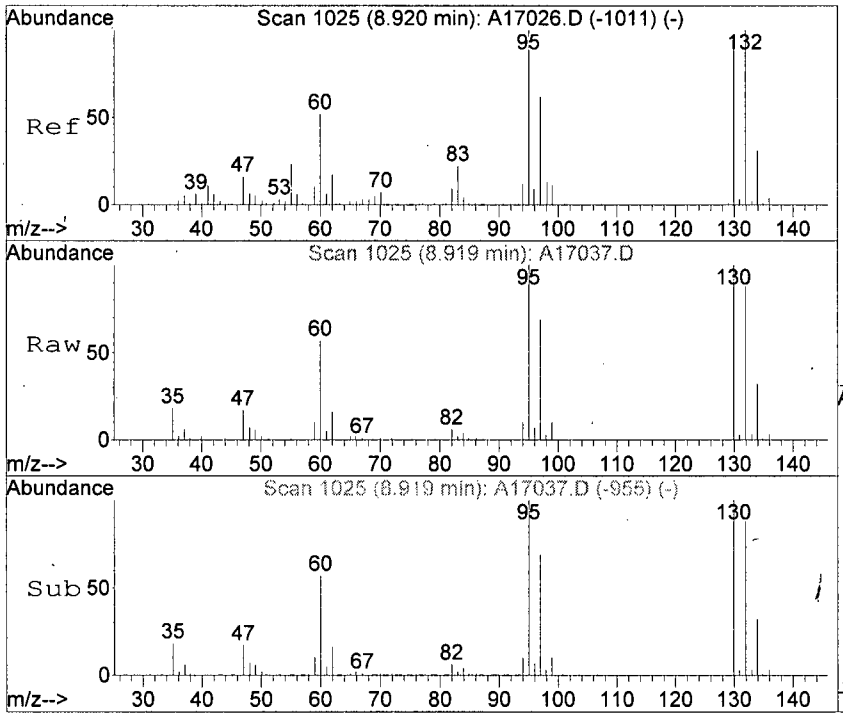
Vial: 14
Operator: SB
Inst : A-5973
Multiplr: 1.00



#20
cis-1,2-Dichloroethene
Concen: 0.47 ug/L
RT: 6.74 min Scan# 720
Delta R.T. 0.00 min
Integration Range:
Scan=711 to 729
R.T.= 6.67 to 6.80 (min)
Tgt Ion: 96 Resp: 99876

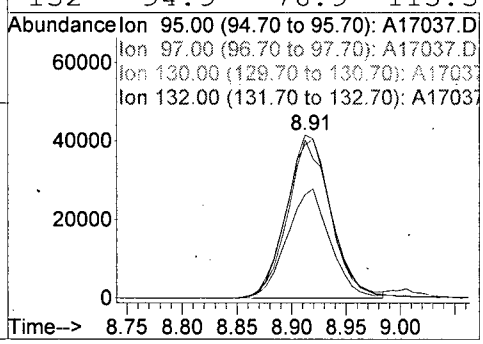
Ion	Ratio	Lower	Upper
96	100		
61	140.0	116.9	175.3
98	63.9	48.5	72.7





#34
Trichloroethene
Concen: 4.89 ug/L
RT: 8.92 min Scan# 1025
Delta R.T. 0.00 min
Integration Range:
Scan=1011 to 1034
R.T.= 8.82 to 8.98 (min)
Tgt Ion: 95 Resp: 1175563

Ion	Ratio	Lower	Upper
95	100		
97	66.4	53.2	79.8
130	99.5	79.5	119.3
132	94.9	76.9	115.3



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.122	73	76	79	PV	805	14622	0.14%	0.014%
2	2.158	79	81	86	VV 4	753	11875	0.11%	0.012%
3	2.251	86	94	109	VV	42788	1196335	11.47%	1.163%
4	2.394	109	114	118	VV 2	1138	27629	0.26%	0.027%
5	2.430	118	119	133	VV 4	964	41383	0.40%	0.040%
6	2.551	133	136	138	PV 2	870	10022	0.10%	0.010%
7	2.580	138	140	142	VV 2	968	15501	0.15%	0.015%
8	2.609	142	144	149	VV 3	1014	21357	0.20%	0.021%
9	2.666	149	152	156	VV	1463	29842	0.29%	0.029%
10	2.802	156	171	186	VV 2	36670	1287054	12.34%	1.251%
11	2.924	186	188	190	VV	2611	44608	0.43%	0.043%
12	2.953	190	192	198	VV 5	3440	85633	0.82%	0.083%
13	3.010	198	200	206	VV 3	2610	70849	0.68%	0.069%
14	3.060	206	207	229	VV 3	1324	86448	0.83%	0.084%
15	3.239	229	232	234	VV 3	759	12809	0.12%	0.012%
16	3.268	234	236	240	VV 2	1375	17351	0.17%	0.017%
17	3.318	240	243	246	VV 2	701	9631	0.09%	0.009%
18	3.354	246	248	249	VV 2	525	5312	0.05%	0.005%
19	3.375	249	251	256	VV 3	1272	20199	0.19%	0.020%
20	3.433	256	259	261	VV 2	614	8242	0.08%	0.008%
21	3.454	261	262	266	VV	589	8665	0.08%	0.008%
22	3.504	266	269	276	VV	461	14325	0.14%	0.014%
23	3.569	276	278	285	VV	700	17721	0.17%	0.017%
24	3.726	285	300	313	VV	112904	3741657	35.86%	3.636%
25	3.841	313	316	326	VV 2	2480	73744	0.71%	0.072%
26	3.934	326	329	331	VV	1001	14793	0.14%	0.014%
27	3.963	331	333	335	VV	749	8814	0.08%	0.009%
28	4.006	335	339	346	VV	795	27609	0.26%	0.027%
29	4.077	346	349	355	VV	716	13917	0.13%	0.014%
30	4.135	355	357	361	VV	606	10396	0.10%	0.010%
31	4.170	361	362	367	VV	797	9967	0.10%	0.010%
32	4.228	367	370	375	VV 2	578	15492	0.15%	0.015%
33	4.285	375	378	380	VV	824	9438	0.09%	0.009%
34	4.306	380	381	389	VV 2	690	16906	0.16%	0.016%
35	4.378	389	391	395	VV 2	444	10326	0.10%	0.010%
36	4.421	395	397	399	VV 2	939	8278	0.08%	0.008%
37	4.435	399	399	402	VV	531	4792	0.05%	0.005%
38	4.486	402	406	417	PV 2	634	26098	0.25%	0.025%
39	4.579	417	419	421	VV	486	5452	0.05%	0.005%
40	4.607	421	423	424	VV 2	560	5681	0.05%	0.006%
41	4.679	424	433	439	VV 5	2556	88537	0.85%	0.086%
42	4.729	439	440	445	VV 2	717	13608	0.13%	0.013%
43	4.779	445	447	449	VV 2	905	8622	0.08%	0.008%
44	4.801	449	450	456	VV 2	627	15357	0.15%	0.015%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.858	456	458	462	VV 2	671	9662	0.09%	0.009%
46	4.894	462	463	465	VV 2	596	5014	0.05%	0.005%
47	4.915	465	466	468	VV	801	6569	0.06%	0.006%
48	4.965	468	473	480	VV 2	780	23289	0.22%	0.023%
49	5.037	480	483	488	VV 2	913	20103	0.19%	0.020%
50	5.094	488	491	496	VV 2	853	17810	0.17%	0.017%
51	5.145	496	498	503	VV 2	605	14210	0.14%	0.014%
52	5.223	503	509	513	VV 2	667	20229	0.19%	0.020%
53	5.266	513	515	517	VV	693	8827	0.08%	0.009%
54	5.295	517	519	524	VV	633	14805	0.14%	0.014%
55	5.338	524	525	530	VV 2	777	17256	0.17%	0.017%
56	5.388	530	532	537	VV 2	809	16665	0.16%	0.016%
57	5.438	537	539	540	VV 2	568	5706	0.05%	0.006%
58	5.467	540	543	545	VV	961	11835	0.11%	0.012%
59	5.488	545	546	553	VV	702	16033	0.15%	0.016%
60	5.581	553	559	567	VV 2	726	30863	0.30%	0.030%
61	5.660	567	570	573	VV 2	733	14504	0.14%	0.014%
62	5.710	573	577	579	VV 2	750	13003	0.12%	0.013%
63	5.739	579	581	582	VV 2	825	9747	0.09%	0.009%
64	5.789	582	588	590	VV	1868	40845	0.39%	0.040%
65	5.811	590	591	596	VV 2	1483	27671	0.27%	0.027%
66	5.861	596	598	600	VV 2	896	9428	0.09%	0.009%
67	5.882	600	601	604	VV	1016	11043	0.11%	0.011%
68	5.918	604	606	618	VV	1008	38066	0.36%	0.037%
69	6.018	618	620	625	VV 2	707	17691	0.17%	0.017%
70	6.097	625	631	633	VV	976	24164	0.23%	0.023%
71	6.126	633	635	638	VV	777	12225	0.12%	0.012%
72	6.162	638	640	642	VV 2	794	11512	0.11%	0.011%
73	6.190	642	644	647	VV 2	961	15145	0.15%	0.015%
74	6.226	647	649	651	VV 2	736	10156	0.10%	0.010%
75	6.255	651	653	665	VV 2	859	38445	0.37%	0.037%
76	6.348	665	666	671	VV 2	771	13634	0.13%	0.013%
77	6.391	671	672	674	VV	767	6376	0.06%	0.006%
78	6.434	674	678	684	VV 2	895	32166	0.31%	0.031%
79	6.491	684	686	690	VV 2	794	16867	0.16%	0.016%
80	6.534	690	692	696	VV 2	894	19147	0.18%	0.019%
81	6.577	696	698	700	VV 2	879	12455	0.12%	0.012%
82	6.634	700	706	710	VV 2	1096	31172	0.30%	0.030%
83	6.735	710	720	732	VV 3	15550	502319	4.81%	0.488%
84	6.849	732	736	741	VV 2	1085	31924	0.31%	0.031%
85	6.935	741	748	754	VV	1018	41767	0.40%	0.041%
86	6.993	754	756	759	VV	1535	22779	0.22%	0.022%
87	7.043	759	763	768	VV 2	1436	34085	0.33%	0.033%
88	7.165	768	780	798	VV 2	163061	5332030	51.10%	5.182%
89	7.301	798	799	807	VV 4	2102	60352	0.58%	0.059%
90	7.394	807	812	815	VV 2	1408	37065	0.36%	0.036%
91	7.430	815	817	826	VV 2	1317	49401	0.47%	0.048%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.601	826	841	859	VV		75516	2543869	24.38%	2.472%
93	7.766	859	864	866	VV		2212	49557	0.47%	0.048%
94	7.809	866	870	874	VV	3	1849	51976	0.50%	0.051%
95	7.852	874	876	878	VV		1758	22146	0.21%	0.022%
96	7.981	878	894	917	VV		280403	8671762	83.11%	8.427%
97	8.225	917	928	949	VV		82620	2765522	26.51%	2.688%
98	8.389	949	951	955	VV	2	1451	24142	0.23%	0.023%
99	8.425	955	956	961	VV	2	1235	30378	0.29%	0.030%
100	8.490	961	965	967	VV		1488	27291	0.26%	0.027%
101	8.525	967	970	978	VV		1221	50201	0.48%	0.049%
102	8.590	978	979	985	VV	2	1553	37425	0.36%	0.036%
103	8.647	985	987	989	VV		1380	15446	0.15%	0.015%
104	8.669	989	990	998	VV	2	1618	52546	0.50%	0.051%
105	8.755	998	1002	1007	VV		1614	42563	0.41%	0.041%
106	8.826	1007	1012	1014	VV	2	1153	28700	0.28%	0.028%
107	8.919	1014	1025	1031	VV		246741	6935837	66.48%	6.740%
108	9.005	1031	1037	1051	VV	2	116455	3534422	33.88%	3.435%
109	9.120	1051	1053	1056	VV		2246	42002	0.40%	0.041%
110	9.156	1056	1058	1061	VV	2	1731	31901	0.31%	0.031%
111	9.220	1064	1067	1071	VV	3	1731	39243	0.38%	0.038%
112	9.263	1071	1073	1075	VV	2	1579	19754	0.19%	0.019%
113	9.285	1075	1076	1078	VV		1514	19309	0.19%	0.019%
114	9.313	1078	1080	1083	VV	2	1522	24094	0.23%	0.023%
115	9.342	1083	1084	1089	VV		1399	31684	0.30%	0.031%
116	9.392	1089	1091	1093	VV	2	1538	23143	0.22%	0.022%
117	9.421	1093	1095	1098	VV		1510	30690	0.29%	0.030%
118	9.586	1098	1118	1139	VV	2	173972	5567760	53.36%	5.411%
119	9.750	1139	1141	1147	VV	2	1873	48824	0.47%	0.047%
120	9.808	1147	1149	1152	VV		1605	30901	0.30%	0.030%
121	9.851	1152	1155	1157	VV		1455	25523	0.24%	0.025%
122	9.879	1157	1159	1162	VV		1667	29948	0.29%	0.029%
123	9.915	1162	1164	1166	VV		1568	26148	0.25%	0.025%
124	9.944	1166	1168	1171	VV	2	1605	29274	0.28%	0.028%
125	9.980	1171	1173	1175	VV		1428	23302	0.22%	0.023%
126	10.008	1175	1177	1179	VV		1520	18746	0.18%	0.018%
127	10.037	1179	1181	1187	VV	2	1797	51993	0.50%	0.051%
128	10.094	1187	1189	1191	VV	2	1493	22538	0.22%	0.022%
129	10.137	1191	1195	1197	VV		2122	41334	0.40%	0.040%
130	10.166	1197	1199	1200	VV	2	1863	21842	0.21%	0.021%
131	10.187	1200	1202	1204	VV		1711	21297	0.20%	0.021%
132	10.216	1204	1206	1207	VV		1605	20661	0.20%	0.020%
133	10.237	1207	1209	1216	VV	2	1617	57492	0.55%	0.056%
134	10.302	1216	1218	1220	VV	2	1511	18715	0.18%	0.018%
135	10.331	1220	1222	1228	VV		1823	53021	0.51%	0.052%
136	10.424	1228	1235	1236	VV	2	1730	54580	0.52%	0.053%
137	10.445	1236	1238	1240	VV		1517	23356	0.22%	0.023%
138	10.502	1240	1246	1249	VV	2	1716	55473	0.53%	0.054%
139	10.538	1249	1251	1253	VV	2	1559	22059	0.21%	0.021%

0431

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.639	1253	1265	1273	VV 4	5317	232264	2.23%	0.226%
141	10.775	1273	1284	1309	VV 2	220638	6175404	59.19%	6.001%
142	10.968	1309	1311	1314	VV	2064	33857	0.32%	0.033%
143	11.018	1314	1318	1320	VV 2	2071	45150	0.43%	0.044%
144	11.097	1320	1329	1350	VV	380510	10433679	100.00%	10.140%
145	11.283	1350	1355	1358	VV 2	1925	54981	0.53%	0.053%
146	11.333	1358	1362	1368	VV 3	2833	94852	0.91%	0.092%
147	11.398	1368	1371	1377	VV 2	2067	69623	0.67%	0.068%
148	11.462	1377	1380	1384	VV	1969	49436	0.47%	0.048%
149	11.570	1384	1395	1397	VV 3	1981	96265	0.92%	0.094%
150	11.641	1397	1405	1407	VV 2	2187	79420	0.76%	0.077%
151	11.684	1407	1411	1412	VV 2	1961	38072	0.36%	0.037%
152	11.763	1412	1422	1424	VV 4	3415	126118	1.21%	0.123%
153	11.835	1424	1432	1448	VV	117177	3312717	31.75%	3.219%
154	11.957	1448	1449	1453	VV 2	2548	47787	0.46%	0.046%
155	12.000	1453	1455	1457	VV 2	2057	32256	0.31%	0.031%
156	12.028	1457	1459	1460	VV	1974	23877	0.23%	0.023%
157	12.064	1460	1464	1468	VV 2	2401	70046	0.67%	0.068%
158	12.100	1468	1469	1471	VV	2427	30300	0.29%	0.029%
159	12.143	1471	1475	1477	VV 2	2350	49867	0.48%	0.048%
160	12.200	1477	1483	1486	VV 3	2716	79848	0.77%	0.078%
161	12.236	1486	1488	1494	VV 3	2406	61492	0.59%	0.060%
162	12.293	1494	1496	1497	VV	2198	27551	0.26%	0.027%
163	12.308	1497	1498	1503	VV 2	2256	53097	0.51%	0.052%
164	12.365	1503	1506	1510	VV	2146	55445	0.53%	0.054%
165	12.401	1510	1511	1515	VV	1991	39384	0.38%	0.038%
166	12.451	1515	1518	1519	VV 2	2125	38408	0.37%	0.037%
167	12.472	1519	1521	1525	VV 2	2205	45742	0.44%	0.044%
168	12.515	1525	1527	1528	VV	1863	28301	0.27%	0.028%
169	12.537	1528	1530	1537	VV	1963	63985	0.61%	0.062%
170	12.608	1537	1540	1543	VV 2	2057	51677	0.50%	0.050%
171	12.644	1543	1545	1547	VV	2117	30725	0.29%	0.030%
172	12.680	1547	1550	1552	VV 2	2107	42214	0.40%	0.041%
173	12.702	1552	1553	1563	VV 2	2115	85556	0.82%	0.083%
174	12.780	1563	1564	1570	VV 2	2315	64316	0.62%	0.063%
175	12.852	1570	1574	1583	VV	2312	111981	1.07%	0.109%
176	12.924	1583	1584	1596	VV 2	2264	114564	1.10%	0.111%
177	13.153	1596	1616	1643	VV 2	111993	4833921	46.33%	4.698%
178	13.361	1643	1645	1648	VV 2	2532	41258	0.40%	0.040%
179	13.389	1648	1649	1656	VV 3	2403	83537	0.80%	0.081%
180	13.468	1656	1660	1664	VV	2316	70671	0.68%	0.069%
181	13.568	1664	1674	1687	VV	134677	3834066	36.75%	3.726%
182	13.676	1687	1689	1691	VV	2446	38942	0.37%	0.038%
183	13.704	1691	1693	1694	VV 2	2513	35437	0.34%	0.034%
184	13.726	1694	1696	1700	VV	2627	51354	0.49%	0.050%
185	13.769	1700	1702	1704	VV	2352	42207	0.40%	0.041%
186	13.797	1704	1706	1710	VV 2	2366	53453	0.51%	0.052%

0482

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.840	1710	1712	1718	VV 2	2358	82451	0.79%	0.080%
188	13.905	1718	1721	1723	VV	2341	39665	0.38%	0.039%
189	13.962	1723	1729	1737	VV	2524	138031	1.32%	0.134%
190	14.041	1737	1740	1742	VV 2	2441	50504	0.48%	0.049%
191	14.070	1742	1744	1748	VV 2	2364	49035	0.47%	0.048%
192	14.113	1748	1750	1754	VV 2	2696	67748	0.65%	0.066%
193	14.163	1754	1757	1760	VV 2	2376	57293	0.55%	0.056%
194	14.220	1760	1765	1771	VV 2	2487	106389	1.02%	0.103%
195	14.277	1771	1773	1776	VV 2	2545	44981	0.43%	0.044%
196	14.335	1776	1781	1790	VV 2	2364	136407	1.31%	0.133%
197	14.414	1790	1792	1796	VV 2	2485	62375	0.60%	0.061%
198	14.471	1796	1800	1802	VV	2350	50991	0.49%	0.050%
199	14.492	1802	1803	1805	VV	2339	31883	0.31%	0.031%
200	14.521	1805	1807	1811	VV 2	2527	54116	0.52%	0.053%
201	14.578	1811	1815	1822	VV 2	2596	109374	1.05%	0.106%
202	14.686	1822	1830	1832	VV 2	2718	97803	0.94%	0.095%
203	14.707	1832	1833	1840	VV 2	2919	85194	0.82%	0.083%
204	14.764	1840	1841	1843	VV	2451	34248	0.33%	0.033%
205	14.800	1843	1846	1848	VV	2469	53125	0.51%	0.052%
206	14.836	1848	1851	1853	VV	2399	42116	0.40%	0.041%
207	14.865	1853	1855	1857	VV 2	2546	42711	0.41%	0.042%
208	14.915	1857	1862	1877	VV 2	2618	205060	1.97%	0.199%
209	15.030	1877	1878	1880	VV	2703	38126	0.37%	0.037%
210	15.073	1880	1884	1890	VV 2	2644	101915	0.98%	0.099%
211	15.187	1890	1900	1903	VV 2	2526	126223	1.21%	0.123%
212	15.244	1903	1908	1919	VV 2	2636	169786	1.63%	0.165%
213	15.352	1919	1923	1925	VV	2643	58137	0.56%	0.056%
214	15.381	1925	1927	1929	VV	2599	45063	0.43%	0.044%
215	15.402	1929	1930	1932	VV	2468	31428	0.30%	0.031%
216	15.509	1932	1945	1950	VV 2	2829	185114	1.77%	0.180%
217	15.560	1950	1952	1953	VV 2	2520	31512	0.30%	0.031%
218	15.581	1953	1955	1957	VV	2730	40236	0.39%	0.039%
219	15.617	1957	1960	1962	VV	2810	53380	0.51%	0.052%
220	15.646	1962	1964	1966	VV 2	2807	48016	0.46%	0.047%
221	15.674	1966	1968	1974	VV 2	2639	82902	0.79%	0.081%
222	15.753	1974	1979	1981	VV	2670	72714	0.70%	0.071%
223	15.782	1981	1983	1985	VV 2	2662	46901	0.45%	0.046%
224	15.810	1985	1987	1990	VV 2	2960	55087	0.53%	0.054%
225	15.846	1990	1992	1995	VV 2	2738	54484	0.52%	0.053%
226	15.882	1995	1997	1999	VV 2	2589	42499	0.41%	0.041%
227	15.911	1999	2001	2004	VV 2	2604	54305	0.52%	0.053%
228	15.946	2004	2006	2008	VV	2560	41107	0.39%	0.040%
229	15.975	2008	2010	2012	VV 2	2572	38175	0.37%	0.037%
230	16.047	2012	2020	2032	VV 3	74967	2188359	20.97%	2.127%
231	16.154	2032	2035	2044	VV 2	2696	122630	1.18%	0.119%
232	16.240	2044	2047	2053	VV 2	2649	101114	0.97%	0.098%
233	16.305	2053	2056	2059	VV 2	2771	62308	0.60%	0.061%
234	16.340	2059	2061	2064	VV 2	2901	56419	0.54%	0.055%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.376	2064	2066	2068	VV		2930	43978	0.42%	0.043%
236	16.398	2068	2069	2075	VV	2	2923	88182	0.85%	0.086%
237	16.448	2075	2076	2078	VV		2722	36750	0.35%	0.036%
238	16.484	2078	2081	2085	VV	2	2824	77216	0.74%	0.075%
239	16.548	2085	2090	2093	VV	2	2715	87362	0.84%	0.085%
240	16.591	2093	2096	2102	VV	2	3028	99404	0.95%	0.097%
241	16.670	2102	2107	2119	VV	2	2875	196679	1.89%	0.191%
242	16.784	2119	2123	2125	VV	2	2889	77922	0.75%	0.076%
243	16.827	2125	2129	2131	VV	2	2870	67647	0.65%	0.066%
244	16.856	2131	2133	2135	VV	2	3014	41820	0.40%	0.041%
245	16.885	2135	2137	2140	VV		3063	63177	0.61%	0.061%
246	16.928	2140	2143	2148	VV		2893	85571	0.82%	0.083%
247	16.992	2148	2152	2161	VV	2	2861	159394	1.53%	0.155%
248	17.071	2161	2163	2165	VV	2	3118	43660	0.42%	0.042%
249	17.107	2165	2168	2172	VV	2	2967	82628	0.79%	0.080%
250	17.143	2172	2173	2180	VV	2	2878	89225	0.86%	0.087%
251	17.214	2180	2183	2189	VV		2890	108461	1.04%	0.105%
252	17.279	2189	2192	2194	VV	2	2826	63055	0.60%	0.061%
253	17.379	2194	2206	2212	VV	2	3096	210962	2.02%	0.205%
254	17.443	2212	2215	2219	VV	2	3002	84249	0.81%	0.082%
255	17.501	2219	2223	2228	VV	2	3049	120524	1.16%	0.117%
256	17.558	2228	2231	2236	VV	2	3001	90925	0.87%	0.088%
257	17.651	2236	2244	2260	VV	2	81529	2341186	22.44%	2.275%
258	17.780	2260	2262	2268	VV	2	3225	104535	1.00%	0.102%
259	17.845	2268	2271	2273	VV		3222	53822	0.52%	0.052%
260	17.880	2273	2276	2280	VV		3020	97862	0.94%	0.095%
261	17.959	2280	2287	2293	VV	2	3150	156406	1.50%	0.152%
262	18.017	2293	2295	2299	VV	2	3051	79963	0.77%	0.078%
263	18.059	2299	2301	2309	VV	2	3156	126281	1.21%	0.123%
264	18.138	2309	2312	2320	VV	2	3072	141546	1.36%	0.138%
265	18.210	2320	2322	2323	VV		3101	35770	0.34%	0.035%
266	18.231	2323	2325	2327	VV	2	3161	47198	0.45%	0.046%
267	18.274	2327	2331	2336	VV	2	3242	121737	1.17%	0.118%
268	18.418	2336	2351	2362	VV		214298	5871748	56.28%	5.706%
269	18.504	2362	2363	2368	VV	2	3553	88683	0.85%	0.086%
270	18.561	2368	2371	2374	VV		3485	83988	0.80%	0.082%
271	18.604	2374	2377	2379	VV		3392	57802	0.55%	0.056%
272	18.633	2379	2381	2390	VV	2	3401	148250	1.42%	0.144%
273	18.711	2390	2392	2397	VV	2	3628	97474	0.93%	0.095%
274	18.819	2397	2407	2409	VV	2	3501	175374	1.68%	0.170%
275	18.847	2409	2411	2419	VV	2	3274	131854	1.26%	0.128%
276	18.941	2419	2424	2426	VV		3420	101911	0.98%	0.099%
277	18.969	2426	2428	2430	VV	2	3325	51308	0.49%	0.050%
278	18.998	2430	2432	2436	VV		3248	75987	0.73%	0.074%
279	19.098	2436	2446	2452	VV	2	3490	218969	2.10%	0.213%
280	19.198	2452	2460	2462	VV	2	3406	138193	1.32%	0.134%
281	19.249	2462	2467	2468	VV		3616	94323	0.90%	0.092%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	19.306	2468	2475	2477	VV 2	3446	127212	1.22%	0.124%
283	19.392	2477	2487	2490	VV 2	3718	176099	1.69%	0.171%
284	19.420	2490	2491	2493	VV 2	3359	48937	0.47%	0.048%
285	19.463	2493	2497	2499	VV	3613	81610	0.78%	0.079%
286	19.492	2499	2501	2507	VV 2	3545	112789	1.08%	0.110%
287	19.557	2507	2510	2515	VV 2	3554	114117	1.09%	0.111%
288	19.614	2515	2518	2527	VV 2	3493	175157	1.68%	0.170%
289	19.693	2527	2529	2538	VV 2	3354	151204	1.45%	0.147%
290	19.771	2538	2540	2544	VV 2	3576	81404	0.78%	0.079%
291	19.814	2544	2546	2550	VV	3569	93389	0.90%	0.091%
292	19.850	2550	2551	2556	VV	3472	79057	0.76%	0.077%
293	19.915	2556	2560	2565	VV 2	3492	135708	1.30%	0.132%
294	19.958	2565	2566	2568	VV	3344	41755	0.40%	0.041%
295	19.986	2568	2570	2577	VV 2	3419	136027	1.30%	0.132%
296	20.058	2577	2580	2590	VV 2	3682	186266	1.79%	0.181%
297	20.144	2590	2592	2594	VV	3573	51711	0.50%	0.050%
298	20.173	2594	2596	2599	VV	3674	77698	0.74%	0.076%
299	20.216	2599	2602	2606	VV	3651	107446	1.03%	0.104%
300	20.251	2606	2607	2618	VV	3443	176003	1.69%	0.171%
301	20.352	2618	2621	2627	VV 2	3684	126755	1.21%	0.123%
302	20.416	2627	2630	2633	VV	3578	88567	0.85%	0.086%
303	20.452	2633	2635	2639	VV	3605	88838	0.85%	0.086%
304	20.516	2639	2644	2649	VV 2	3732	156938	1.50%	0.153%
305	20.567	2649	2651	2658	VV 2	3814	137545	1.32%	0.134%
306	20.638	2658	2661	2665	VV 2	3720	102535	0.98%	0.100%
307	20.688	2665	2668	2674	VV 2	3706	135020	1.29%	0.131%
308	20.746	2674	2676	2677	VV 2	3659	46443	0.45%	0.045%
309	20.781	2677	2681	2684	VV 2	3818	110438	1.06%	0.107%
310	20.817	2684	2686	2687	VV	3921	48211	0.46%	0.047%
311	20.839	2687	2689	2692	VV 2	3843	70473	0.68%	0.068%
312	20.882	2692	2695	2697	VV	4271	84958	0.81%	0.083%
313	20.910	2697	2699	2704	VV 2	3647	105718	1.01%	0.103%
314	20.968	2704	2707	2711	VV 2	3832	111858	1.07%	0.109%
315	21.046	2711	2718	2723	VV 2	3770	188801	1.81%	0.183%
316	21.097	2723	2725	2727	VV	3738	55887	0.54%	0.054%
317	21.125	2727	2729	2732	VV 2	3923	92448	0.89%	0.090%
318	21.183	2732	2737	2739	VV 2	3888	107155	1.03%	0.104%
319	21.204	2739	2740	2742	VV	3754	43011	0.41%	0.042%
320	21.233	2742	2744	2753	VV	3909	173476	1.66%	0.169%
321	21.311	2753	2755	2759	VV	3855	99328	0.95%	0.097%
322	21.347	2759	2760	2764	VV	3767	72999	0.70%	0.071%
323	21.390	2764	2766	2772	VV 2	3783	125635	1.20%	0.122%
324	21.455	2772	2775	2778	VV	3822	94226	0.90%	0.092%
325	21.498	2778	2781	2782	VV 2	3889	75194	0.72%	0.073%
326	21.526	2782	2785	2789	VV 2	3898	111671	1.07%	0.109%
327	21.584	2789	2793	2795	VV 2	4103	95380	0.91%	0.093%
328	21.627	2795	2799	2804	VV 2	3990	144641	1.39%	0.141%
329	21.670	2804	2805	2807	VV 2	3828	56318	0.54%	0.055%

0485

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	21.698	2807	2809	2812	VV 2	3733	72948	0.70%	0.071%
331	21.734	2812	2814	2817	VV 2	4002	84844	0.81%	0.082%
332	21.770	2817	2819	2825	VV	3770	117452	1.13%	0.114%
333	21.834	2825	2828	2830	VV	3999	83310	0.80%	0.081%
334	21.856	2830	2831	2838	VV 2	4117	136242	1.31%	0.132%
335	21.949	2838	2844	2847	VV 2	3967	144829	1.39%	0.141%
336	21.985	2847	2849	2852	VV	3916	84847	0.81%	0.082%
337	22.021	2852	2854	2856	VV 2	4041	59474	0.57%	0.058%
338	22.049	2856	2858	2860	VV 2	4104	70058	0.67%	0.068%
339	22.099	2860	2865	2866	VV 2	4036	105796	1.01%	0.103%
340	22.121	2866	2868	2870	VV	3938	57652	0.55%	0.056%
341	22.157	2870	2873	2880	VV 2	4426	165870	1.59%	0.161%
342	22.221	2880	2882	2890	VV 2	4317	174829	1.68%	0.170%
343	22.314	2890	2895	2903	VV 2	4253	228610	2.19%	0.222%
344	22.379	2903	2904	2913	VV 2	4109	168236	1.61%	0.163%
345	22.472	2913	2917	2920	VV	4197	108466	1.04%	0.105%
346	22.522	2920	2924	2933	VV 2	4424	241035	2.31%	0.234%
347	22.622	2933	2938	2942	VV	4516	153128	1.47%	0.149%
348	22.680	2942	2946	2950	VV 2	4321	144483	1.38%	0.140%
349	22.723	2950	2952	2954	VV	4244	60254	0.58%	0.059%
350	22.758	2954	2957	2964	VV	4061	172697	1.66%	0.168%
351	22.823	2964	2966	2969	VV	4164	76029	0.73%	0.074%
352	22.859	2969	2971	2973	VV 2	4131	73145	0.70%	0.071%
353	22.887	2973	2975	2977	VV 2	4418	70392	0.67%	0.068%
354	22.916	2977	2979	2980	VV	4229	56103	0.54%	0.055%
355	22.938	2980	2982	2985	VBA	4320	85282	0.82%	0.083%

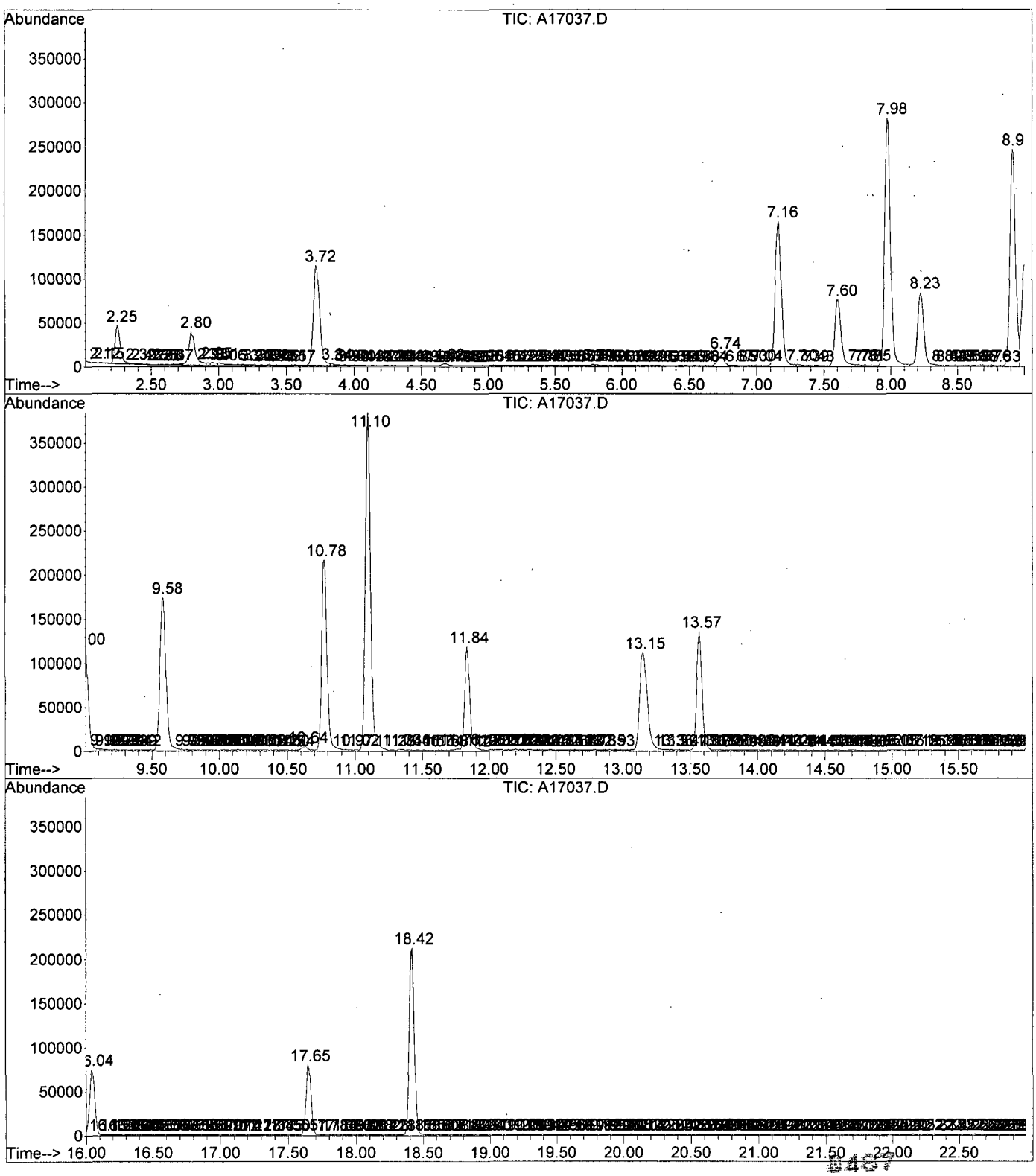
Sum of corrected areas: 102898918

0486

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

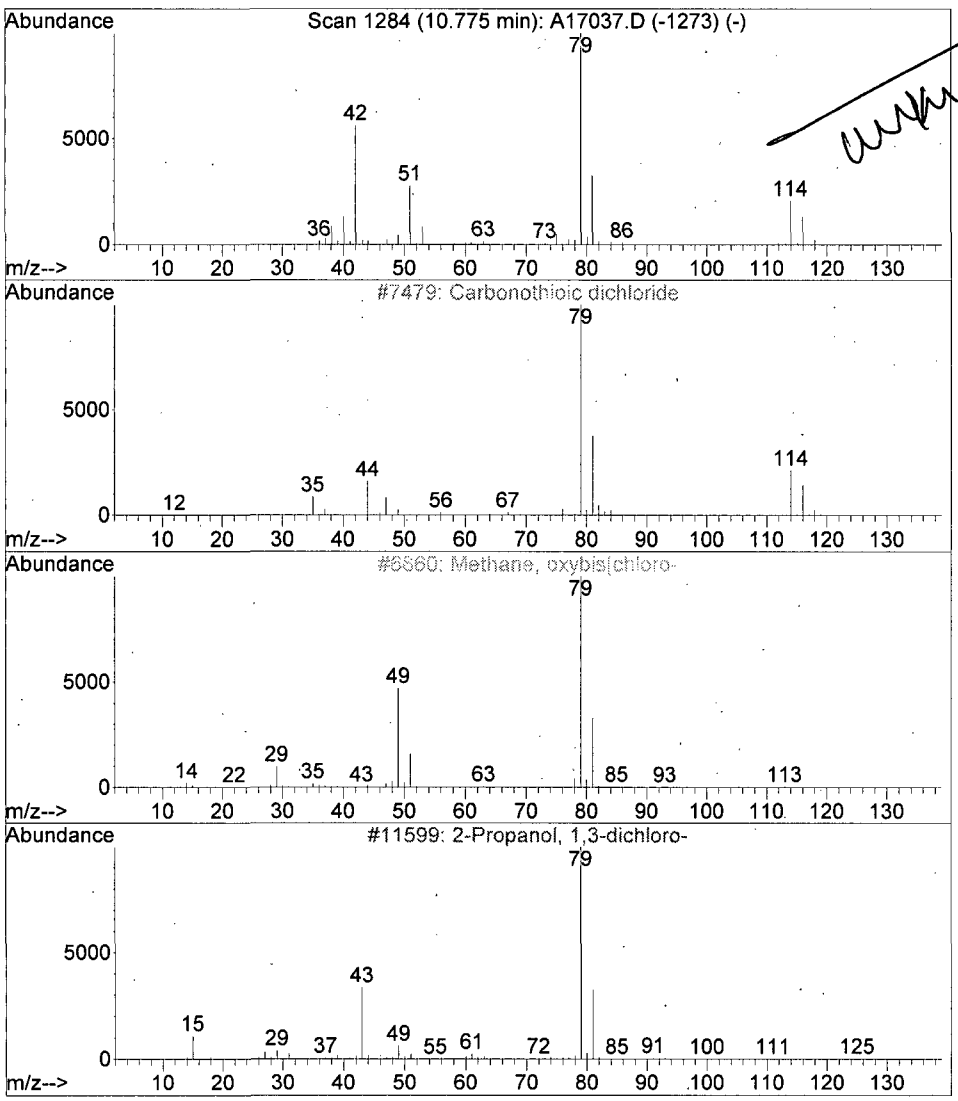
11/28/08

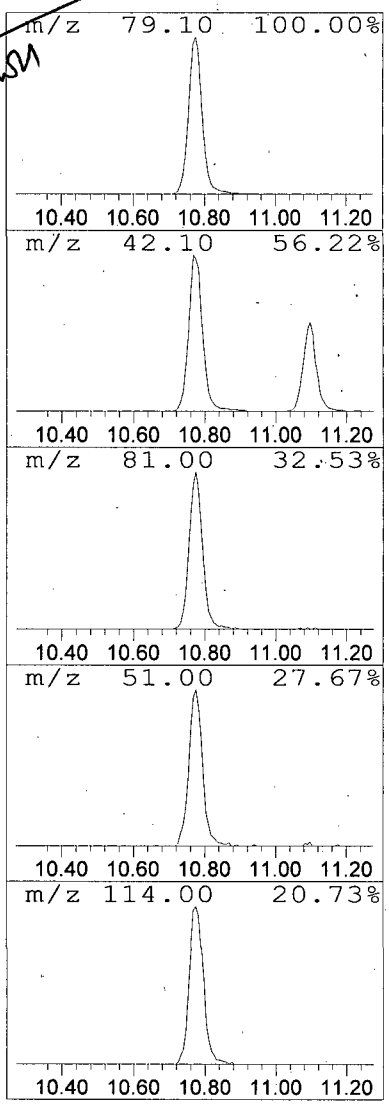
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	7.51 ug/L	5307660	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
5	Cyclopropane	42	C3H6	000075-19-4	9





0488

Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

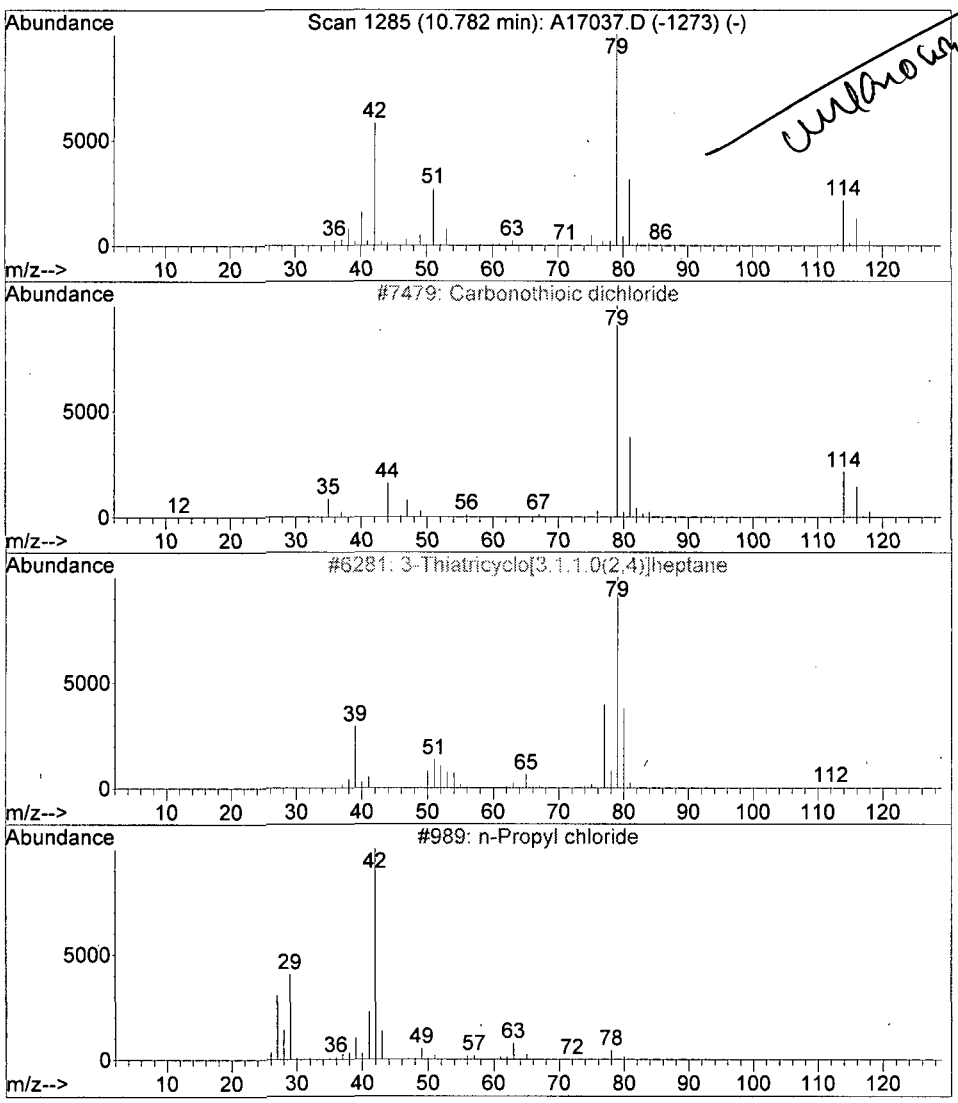
11/28/08

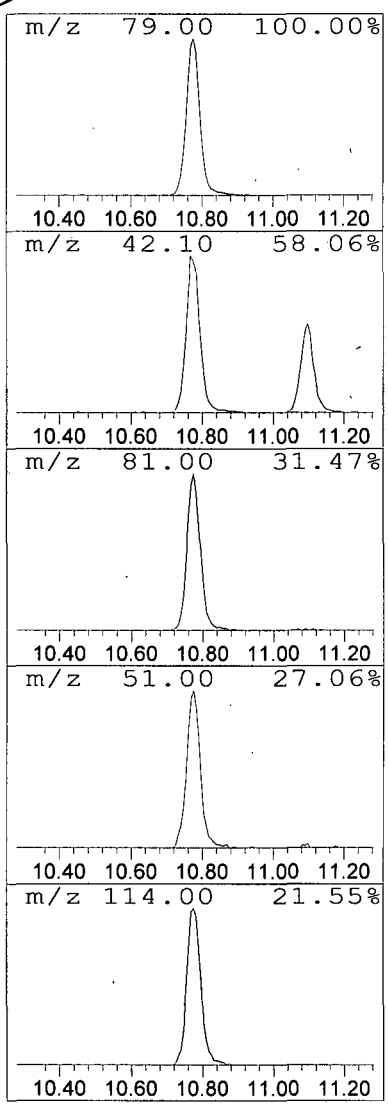
****

Peak Number 2 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	1.23 ug/L	867661	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	49
2	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
3	n-Propyl chloride	78	C3H7Cl	000540-54-5	9
4	Cyclopropene, 3-methyl-3-vinyl-	80	C6H8	071153-30-5	9
5	2,4-Imidazolidinedione, 3-methyl-	114	C4H6N2O2	006843-45-4	9





0489

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

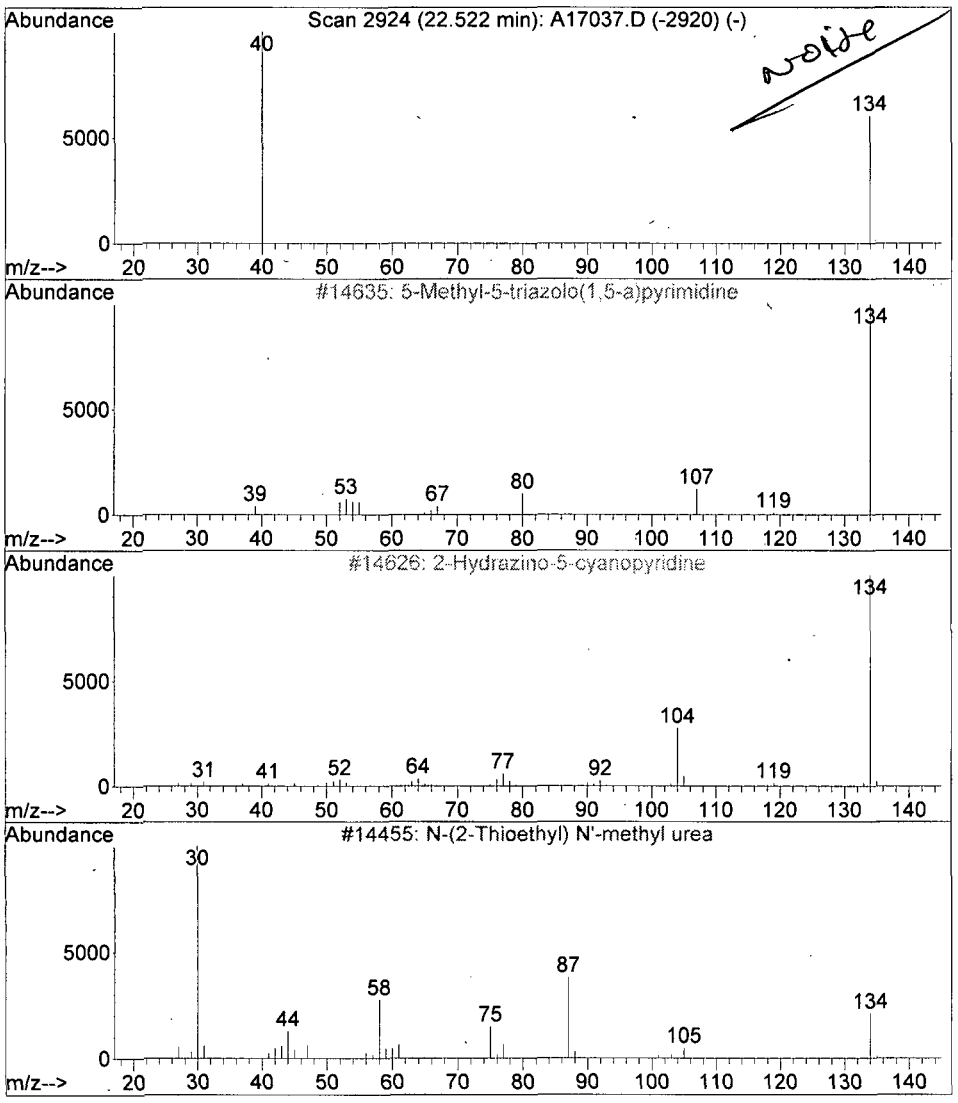
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

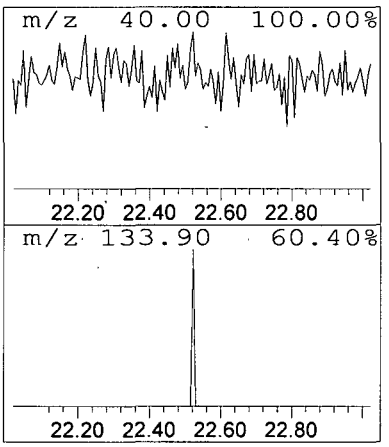
****

Peak Number 3 5-Methyl-5-triazolo(1,5-a)p... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.52	0.51 ug/L	240832	1,4-Dichlorobenzene-d4	17.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Methyl-5-triazolo(1,5-a)pyrimi...	134	C6H6N4	015562-30-8	2
2	2-Hydrazino-5-cyanopyridine	134	C6H6N4	104408-24-4	2
3	N-(2-Thioethyl) N'-methyl urea	134	C4H10N2OS	072545-68-7	2
4	N-(2-Thioethyl) N'-methyl urea	134	C4H10N2OS	072545-68-7	1
5	4-Cyanobenzoic acid, 2-adamantyl...	281	C18H19NO2	1000292-44-9	1





0490

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17037.D
Acq On : 11/27/08 00:47 Operator: SB
Sample : F2XG0DL 20X Inst : A-5973
Misc : S-2066.15DL 25ML
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	7.5	ug/L	5307660	1	9.00	3534420	5.0
Carbonothioic dic...	10.78	1.2	ug/L	867661	1	9.00	3534420	5.0
5-Methyl-5-triazo...	22.52	0.5	ug/L	240832	3	17.65	2341190	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XG1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.16

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17021

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	8.1	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XG1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.16

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17021

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.21	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F2XG1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.16

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17021

Level: (TRACE or LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.78	9.5	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17021.D
Acq On : 11/26/08,15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 09:18:53 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Nov 27 07:51:19 2008
Response via : Initial Calibration

11/28/08

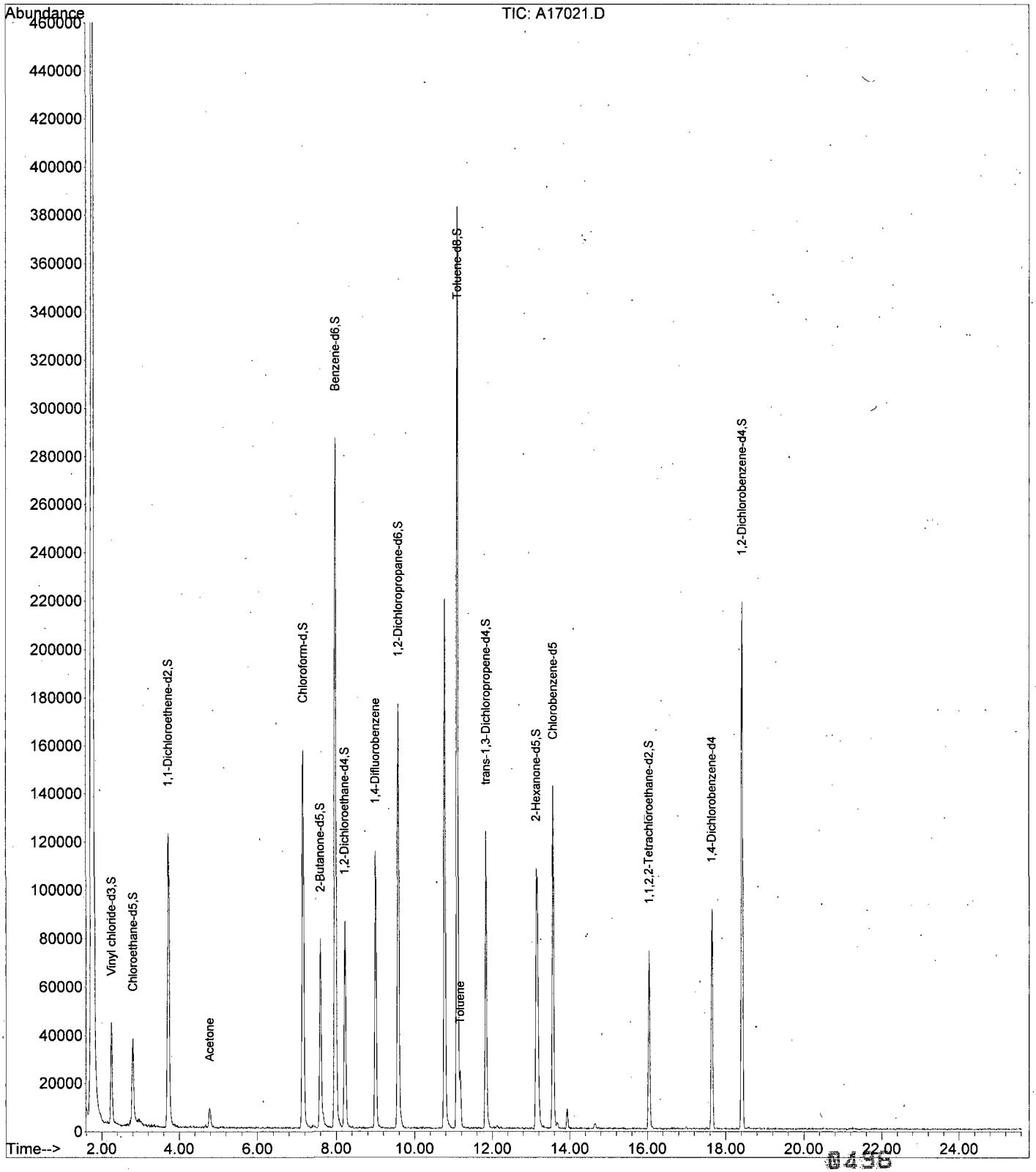
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1298337	5.00	ug/L	0.01
28) Chlorobenzene-d5	13.57	117	1206283	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	385261	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	779708	4.61	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 92.20%			
7) Chloroethane-d5	2.80	69	488908	4.88	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 97.60%			
10) 1,1-Dichloroethene-d2	3.72	63	1538519	3.69	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 73.80%			
21) 2-Butanone-d5	7.60	46	1496966	49.21	ug/L	0.01
Spiked Amount 50.000	Range 49 - 155		Recovery = 98.42%			
24) Chloroform-d	7.16	84	2018098	4.39	ug/L	0.01
Spiked Amount 5.000	Range 78 - 121		Recovery = 87.80%			
26) 1,2-Dichloroethane-d4	8.22	65	901099	4.91	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 98.20%			
32) Benzene-d6	7.98	84	3857374	4.34	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 86.80%			
36) 1,2-Dichloropropane-d6	9.58	67	1148727	4.35	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 87.00%			
41) Toluene-d8	11.10	98	3771614	4.63	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 92.60%			
43) trans-1,3-Dichloropropene-	11.84	79	907815	3.94	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 78.80%			
47) 2-Hexanone-d5	13.14	63	640821	48.19	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 96.38%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	551828	4.39	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 87.80%			
63) 1,2-Dichlorobenzene-d4	18.42	152	923387	5.27	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 105.40%			
Target Compounds						Qvalue
13) Acetone	4.78	43	186774	8.12	ug/L	98
42) Toluene	11.18	91	210028	0.21	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0495

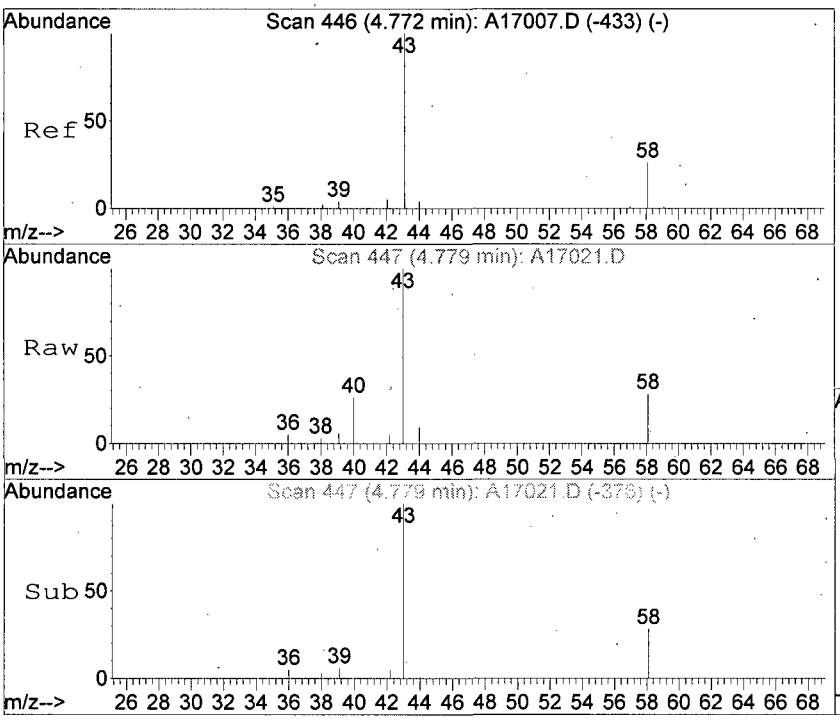
Data File: C:\MSDCHEM\1\DATA\A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 09:18:53 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Nov 27 07:51:19 2008
Response via : Initial Calibration



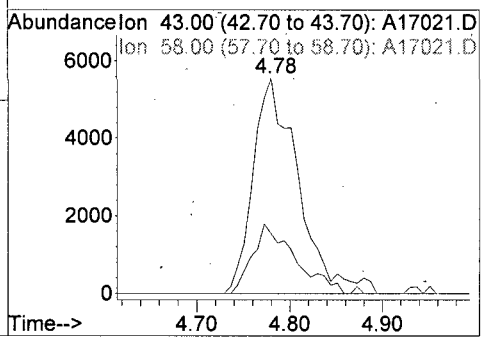
Data File : C:\MSDCHEM\1\DATA\A17021.D
Acq On : 11/26/08 15:04
Sample : F2XG1
Misc : S-2066.16 25ML
MS Integration Params: LSCINT.E

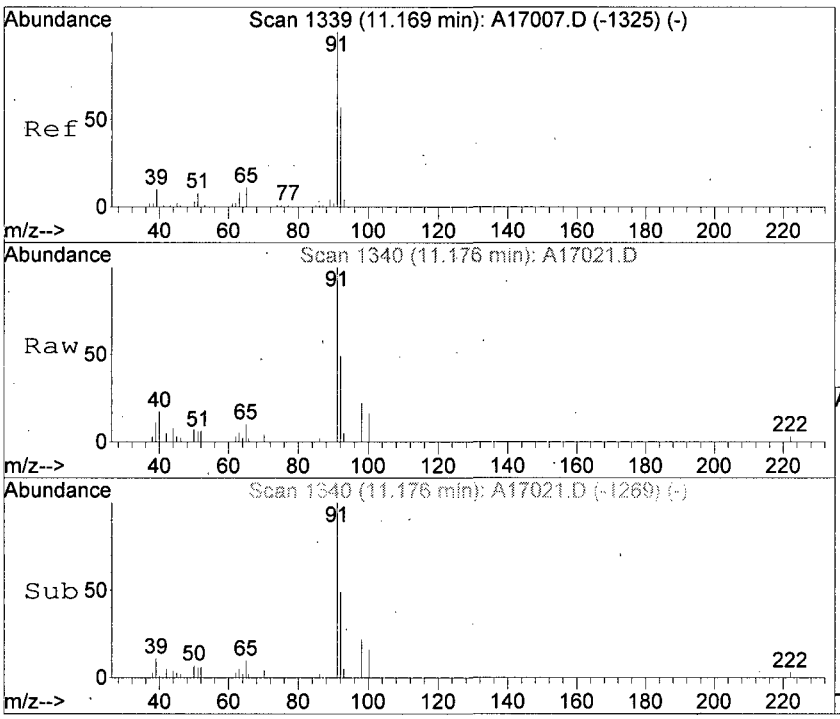
Vial: 2
Operator: SB
Inst : A-5973
Multiplr: 1.00



#13
Acetone
Concen: 8.12 ug/L
RT: 4.78 min Scan# 447
Delta R.T. 0.01 min
Integration Range:
Scan=437 to 464
R.T.= 4.71 to 4.90 (min)
Tgt Ion: 43 Resp: 186774

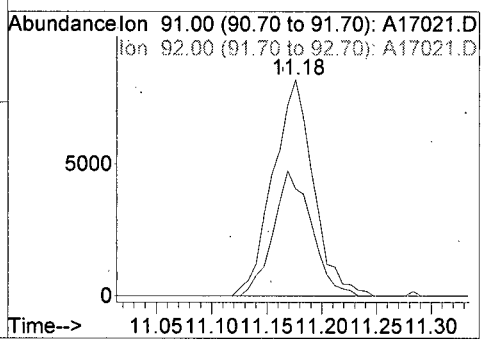
Ion	Ratio	Lower	Upper
43	100		
58	30.3	25.0	37.4





#42
Toluene
Concen: 0.21 ug/L
RT: 11.18 min Scan# 1340
Delta R.T. 0.01 min
Integration Range:
Scan=1329 to 1351
R.T.= 11.10 to 11.25 (min)
Tgt Ion: 91 Resp: 210028

Ion	Ratio	Lower	Upper
91	100		
92	54.6	46.4	69.6



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.100	71	73	77	PV 2	677	8637	0.08%	0.010%
2	2.151	77	80	82	VV 3	1160	13869	0.14%	0.016%
3	2.179	82	84	86	PV 3	563	7172	0.07%	0.008%
4	2.244	86	93	112	VV 2	42447	1262800	12.33%	1.421%
5	2.394	112	114	118	VV 3	925	16867	0.16%	0.019%
6	2.437	118	120	125	VV 3	533	12766	0.12%	0.014%
7	2.487	125	127	133	VV 3	416	3086	0.03%	0.003%
8	2.580	133	140	144	PV 2	716	13584	0.13%	0.015%
9	2.623	144	146	147	VV	548	3664	0.04%	0.004%
10	2.645	147	149	157	VV 2	899	26759	0.26%	0.030%
11	2.802	157	171	186	PV	36449	1284841	12.55%	1.446%
12	2.924	186	188	190	VV 2	2990	44142	0.43%	0.050%
13	2.960	190	193	197	VV 4	3390	80840	0.79%	0.091%
14	3.003	197	199	205	VV 3	2389	65539	0.64%	0.074%
15	3.053	205	206	211	VV	1414	25546	0.25%	0.029%
16	3.118	211	215	224	VV 3	1123	39627	0.39%	0.045%
17	3.218	224	229	233	VV 3	1239	25552	0.25%	0.029%
18	3.268	233	236	238	VV 2	1007	9423	0.09%	0.011%
19	3.289	238	239	244	VV 2	998	14269	0.14%	0.016%
20	3.340	244	246	248	VV 2	1152	10411	0.10%	0.012%
21	3.368	248	250	252	VV	1281	12538	0.12%	0.014%
22	3.411	252	256	257	PV 2	657	8816	0.09%	0.010%
23	3.440	257	260	266	VV	790	20307	0.20%	0.023%
24	3.497	266	268	269	VV	398	3858	0.04%	0.004%
25	3.519	269	271	276	VV 2	478	8753	0.09%	0.010%
26	3.583	276	280	282	PV	471	6449	0.06%	0.007%
27	3.605	282	283	289	VV 2	381	7953	0.08%	0.009%
28	3.719	289	299	313	VV 2	122852	4136095	40.39%	4.653%
29	3.827	313	314	316	VV 2	2621	30373	0.30%	0.034%
30	3.855	316	318	321	VV 2	1636	26639	0.26%	0.030%
31	3.891	321	323	326	VV 2	1669	24354	0.24%	0.027%
32	3.934	326	329	331	VV 2	1101	15710	0.15%	0.018%
33	3.956	331	332	339	VV 2	1019	15289	0.15%	0.017%
34	4.027	339	342	346	VV 2	637	11103	0.11%	0.012%
35	4.113	346	354	358	VV 3	629	18949	0.19%	0.021%
36	4.163	358	361	365	VV 2	898	11268	0.11%	0.013%
37	4.257	365	374	378	VV 2	602	19755	0.19%	0.022%
38	4.292	378	379	383	VV	891	10356	0.10%	0.012%
39	4.364	383	389	399	VV 2	830	29143	0.28%	0.033%
40	4.450	399	401	407	VV 2	673	11655	0.11%	0.013%
41	4.514	407	410	412	VV 2	529	7939	0.08%	0.009%
42	4.543	412	414	417	VV	529	7449	0.07%	0.008%
43	4.586	417	420	424	VV 2	705	13152	0.13%	0.015%
44	4.679	424	433	440	VV 3	1471	46787	0.46%	0.053%

0298

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.779	440	447	459	VV	8385	303765	2.97%	0.342%
46	4.880	459	461	465	VV	1092	15310	0.15%	0.017%
47	4.951	465	471	475	VV 2	582	13585	0.13%	0.015%
48	4.994	475	477	480	PV	531	4724	0.05%	0.005%
49	5.023	480	481	483	VV 2	415	2656	0.03%	0.003%
50	5.059	483	486	487	VV	750	7531	0.07%	0.008%
51	5.102	487	492	494	VV 2	849	17844	0.17%	0.020%
52	5.123	494	495	503	VV	857	14426	0.14%	0.016%
53	5.209	503	507	511	VV	577	10622	0.10%	0.012%
54	5.245	511	512	514	VV	424	4618	0.05%	0.005%
55	5.281	514	517	521	VV	712	11167	0.11%	0.013%
56	5.352	521	527	538	VV 2	620	29620	0.29%	0.033%
57	5.460	538	542	545	VV	417	7366	0.07%	0.008%
58	5.496	545	547	549	VV	674	6436	0.06%	0.007%
59	5.524	549	551	555	VV	448	8464	0.08%	0.010%
60	5.567	555	557	558	VV	434	4297	0.04%	0.005%
61	5.596	558	561	567	VV	842	16442	0.16%	0.018%
62	5.675	567	572	574	VV 2	587	9920	0.10%	0.011%
63	5.703	574	576	584	VV 2	575	14089	0.14%	0.016%
64	5.782	584	587	593	VV 2	827	20683	0.20%	0.023%
65	5.847	593	596	602	VV 2	802	15103	0.15%	0.017%
66	5.911	602	605	608	VV 2	577	8294	0.08%	0.009%
67	5.968	608	613	619	VV 2	785	17520	0.17%	0.020%
68	6.026	619	621	624	VV	799	10041	0.10%	0.011%
69	6.054	624	625	632	VV 2	314	8936	0.09%	0.010%
70	6.119	632	634	638	VV 2	653	14833	0.14%	0.017%
71	6.155	638	639	644	VV 2	451	8031	0.08%	0.009%
72	6.205	644	646	649	VV 2	525	7393	0.07%	0.008%
73	6.262	649	654	658	VV 2	851	17940	0.18%	0.020%
74	6.305	658	660	662	VV 2	651	8115	0.08%	0.009%
75	6.341	662	665	667	VV	519	8782	0.09%	0.010%
76	6.391	667	672	674	VV 2	607	9813	0.10%	0.011%
77	6.441	674	679	681	VV	868	17554	0.17%	0.020%
78	6.477	681	684	686	VV 2	658	8768	0.09%	0.010%
79	6.506	686	688	691	VV	606	10121	0.10%	0.011%
80	6.542	691	693	695	VV	815	8962	0.09%	0.010%
81	6.599	695	701	703	VV	608	14360	0.14%	0.016%
82	6.620	703	704	706	VV	613	7233	0.07%	0.008%
83	6.663	706	710	712	VV	896	10199	0.10%	0.011%
84	6.692	712	714	718	VV	464	9758	0.10%	0.011%
85	6.728	718	719	729	VV 2	753	25896	0.25%	0.029%
86	6.821	729	732	734	VV 2	892	10677	0.10%	0.012%
87	6.850	734	736	741	VV 2	569	13200	0.13%	0.015%
88	6.914	741	745	747	VV 2	688	11374	0.11%	0.013%
89	6.978	747	754	758	VV 2	709	24231	0.24%	0.027%
90	7.021	758	760	762	VV	633	7981	0.08%	0.009%
91	7.057	762	765	766	VV	768	10709	0.10%	0.012%

0499

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.165	766	780	797	VV		154905	5166293	50.45%	5.812%
93	7.315	797	801	808	VV	4	1459	44196	0.43%	0.050%
94	7.408	808	814	826	VV	4	1912	86935	0.85%	0.098%
95	7.509	826	828	829	VV		627	7107	0.07%	0.008%
96	7.602	829	841	857	VV		77970	2501736	24.43%	2.815%
97	7.731	857	859	867	VV	3	2198	62626	0.61%	0.070%
98	7.802	867	869	873	VV	2	1416	27099	0.26%	0.030%
99	7.845	873	875	880	VV	2	1209	25899	0.25%	0.029%
100	7.974	880	893	906	VV		283736	8667742	84.64%	9.752%
101	8.074	906	907	912	VV	2	4085	69299	0.68%	0.078%
102	8.117	912	913	916	VV	2	1684	22654	0.22%	0.025%
103	8.225	916	928	942	VV	2	85450	2651625	25.89%	2.983%
104	8.339	942	944	947	VV	2	1582	23670	0.23%	0.027%
105	8.368	947	948	951	VV	2	1040	14262	0.14%	0.016%
106	8.411	951	954	960	VV	3	1407	32810	0.32%	0.037%
107	8.490	960	965	966	VV	2	725	15734	0.15%	0.018%
108	8.526	966	970	973	VV	2	999	19189	0.19%	0.022%
109	8.590	973	979	987	VV	3	1035	40673	0.40%	0.046%
110	8.655	987	988	990	VV		748	8901	0.09%	0.010%
111	8.683	990	992	996	VV		1180	19723	0.19%	0.022%
112	8.719	996	997	1000	VV	2	636	11747	0.11%	0.013%
113	8.769	1000	1004	1010	VV	2	699	25548	0.25%	0.029%
114	8.841	1010	1014	1018	VV	2	956	26683	0.26%	0.030%
115	8.891	1018	1021	1026	VV	3	1145	29673	0.29%	0.033%
116	8.998	1026	1036	1048	VV		113486	3194881	31.20%	3.594%
117	9.099	1048	1050	1056	VV	2	1940	47413	0.46%	0.053%
118	9.163	1056	1059	1069	VV	3	1110	49117	0.48%	0.055%
119	9.249	1069	1071	1080	VV	2	790	36641	0.36%	0.041%
120	9.335	1080	1083	1088	VV	2	923	23679	0.23%	0.027%
121	9.385	1088	1090	1092	VV	2	918	11326	0.11%	0.013%
122	9.421	1092	1095	1097	VV	2	911	16186	0.16%	0.018%
123	9.450	1097	1099	1106	VV		926	27812	0.27%	0.031%
124	9.586	1106	1118	1135	VV		174117	5472909	53.44%	6.157%
125	9.722	1135	1137	1140	VV	2	1800	32029	0.31%	0.036%
126	9.772	1140	1144	1147	VV		1161	26754	0.26%	0.030%
127	9.836	1147	1153	1162	VV	2	1190	51428	0.50%	0.058%
128	9.915	1162	1164	1165	VV	2	902	10862	0.11%	0.012%
129	9.944	1165	1168	1171	VV	2	1030	20279	0.20%	0.023%
130	9.987	1171	1174	1176	VV		1391	21890	0.21%	0.025%
131	10.023	1176	1179	1181	VV		967	18339	0.18%	0.021%
132	10.044	1181	1182	1189	VV	2	1054	28421	0.28%	0.032%
133	10.159	1189	1198	1203	VV		1162	51202	0.50%	0.058%
134	10.216	1203	1206	1212	VV	2	1381	35593	0.35%	0.040%
135	10.273	1212	1214	1217	VV		1216	20027	0.20%	0.023%
136	10.309	1217	1219	1220	VV		1117	13295	0.13%	0.015%
137	10.324	1220	1221	1223	VV	2	1251	15216	0.15%	0.017%
138	10.359	1223	1226	1230	VV	2	1150	29931	0.29%	0.034%
139	10.402	1230	1232	1235	VV	2	1080	19933	0.19%	0.022%

0500

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.438	1235	1237	1240	VV		965	16091	0.16%	0.018%
141	10.503	1240	1246	1253	VV	2	889	42906	0.42%	0.048%
142	10.560	1253	1254	1257	VV		949	14965	0.15%	0.017%
143	10.624	1257	1263	1272	VV	2	1221	61710	0.60%	0.069%
144	10.775	1272	1284	1303	VV		221346	6073307	59.30%	6.833%
145	10.918	1303	1304	1306	VV		2025	23488	0.23%	0.026%
146	10.947	1306	1308	1314	VV		1438	35285	0.34%	0.040%
147	10.997	1314	1315	1317	VV	2	1230	14907	0.15%	0.017%
148	11.097	1317	1329	1337	VV		380531	10241004	100.00%	11.522%
149	11.176	1337	1340	1350	VV	3	24681	612588	5.98%	0.689%
150	11.255	1350	1351	1353	VV		1599	21073	0.21%	0.024%
151	11.283	1353	1355	1361	VV	2	1651	44864	0.44%	0.050%
152	11.348	1361	1364	1373	VV	2	1396	57641	0.56%	0.065%
153	11.448	1373	1378	1380	VV	2	1348	31981	0.31%	0.036%
154	11.477	1380	1382	1385	VV	2	1339	22837	0.22%	0.026%
155	11.513	1385	1387	1392	VV	2	1358	35376	0.35%	0.040%
156	11.577	1392	1396	1401	VV	2	1538	41973	0.41%	0.047%
157	11.642	1401	1405	1413	VV	3	1485	59484	0.58%	0.067%
158	11.706	1413	1414	1418	VV		1236	23716	0.23%	0.027%
159	11.835	1418	1432	1450	VV		122036	3346337	32.68%	3.765%
160	11.978	1450	1452	1454	VV	2	1409	23429	0.23%	0.026%
161	12.036	1454	1460	1463	VV	2	1778	51385	0.50%	0.058%
162	12.071	1463	1465	1468	VV	2	1609	30934	0.30%	0.035%
163	12.122	1468	1472	1477	VV	3	2265	67007	0.65%	0.075%
164	12.164	1477	1478	1480	VV	2	1678	21939	0.21%	0.025%
165	12.229	1480	1487	1489	VV	3	1800	50612	0.49%	0.057%
166	12.258	1489	1491	1504	VV	2	1207	68008	0.66%	0.077%
167	12.372	1504	1507	1511	VV		1503	35601	0.35%	0.040%
168	12.415	1511	1513	1515	VV		1343	23282	0.23%	0.026%
169	12.444	1515	1517	1520	VV		1420	23586	0.23%	0.027%
170	12.473	1520	1521	1523	VV	2	1435	18282	0.18%	0.021%
171	12.508	1523	1526	1530	VV	2	1409	31986	0.31%	0.036%
172	12.558	1530	1533	1540	VV	2	1431	49502	0.48%	0.056%
173	12.644	1540	1545	1549	VV	2	1517	52642	0.51%	0.059%
174	12.687	1549	1551	1556	VV		1425	31786	0.31%	0.036%
175	12.745	1556	1559	1561	VV	2	1257	23677	0.23%	0.027%
176	12.773	1561	1563	1567	VV	2	1634	36972	0.36%	0.042%
177	12.816	1567	1569	1572	VV		1308	19048	0.19%	0.021%
178	12.852	1572	1574	1578	VV	2	1434	32318	0.32%	0.036%
179	12.888	1578	1579	1581	VV	2	1313	17735	0.17%	0.020%
180	12.917	1581	1583	1587	VV	2	1411	29707	0.29%	0.033%
181	12.967	1587	1590	1593	VV		1489	28776	0.28%	0.032%
182	13.003	1593	1595	1597	VV		1457	22190	0.22%	0.025%
183	13.024	1597	1598	1603	VV		1553	32155	0.31%	0.036%
184	13.146	1603	1615	1635	VV	3	108712	4649743	45.40%	5.231%
185	13.303	1635	1637	1646	VV	2	2321	91142	0.89%	0.103%
186	13.404	1646	1651	1655	VV	3	1690	62849	0.61%	0.071%

0501

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.454	1655	1658	1666	VV	2	1620	63193	0.62%	0.071%
188	13.568	1666	1674	1686	VV		143394	3962402	38.69%	4.458%
189	13.676	1686	1689	1696	VV	2	3832	127460	1.24%	0.143%
190	13.748	1696	1699	1705	VV	2	1560	51115	0.50%	0.058%
191	13.805	1705	1707	1712	VV	2	1632	39876	0.39%	0.045%
192	13.862	1712	1715	1718	VV	2	1629	37980	0.37%	0.043%
193	13.934	1718	1725	1731	VV	3	9215	264158	2.58%	0.297%
194	13.991	1731	1733	1738	VV		1877	46760	0.46%	0.053%
195	14.041	1738	1740	1743	VV		1664	28717	0.28%	0.032%
196	14.091	1743	1747	1749	VV	2	1616	38867	0.38%	0.044%
197	14.163	1749	1757	1759	VV		1878	60843	0.59%	0.068%
198	14.199	1759	1762	1764	VV	2	1565	28588	0.28%	0.032%
199	14.256	1764	1770	1772	VV	2	1641	45762	0.45%	0.051%
200	14.292	1772	1775	1777	VV	2	1745	33573	0.33%	0.038%
201	14.328	1777	1780	1785	VV	2	1571	50616	0.49%	0.057%
202	14.385	1785	1788	1790	VV	2	1614	29158	0.28%	0.033%
203	14.428	1790	1794	1798	VV	2	1566	47467	0.46%	0.053%
204	14.478	1798	1801	1803	VV		1619	29907	0.29%	0.034%
205	14.514	1803	1806	1809	VV		1471	33367	0.33%	0.038%
206	14.550	1809	1811	1821	VV	2	1374	68782	0.67%	0.077%
207	14.657	1821	1826	1833	VV	3	3469	135929	1.33%	0.153%
208	14.758	1833	1840	1843	VV	2	2015	69613	0.68%	0.078%
209	14.808	1843	1847	1850	VV	2	1822	44563	0.44%	0.050%
210	14.879	1850	1857	1869	VV	2	1691	116937	1.14%	0.132%
211	14.980	1869	1871	1879	VV	2	1877	68369	0.67%	0.077%
212	15.051	1879	1881	1884	VV	2	1711	34517	0.34%	0.039%
213	15.087	1884	1886	1888	VV	2	1456	25057	0.24%	0.028%
214	15.137	1888	1893	1904	VV	2	1868	98720	0.96%	0.111%
215	15.230	1904	1906	1908	VV		1548	28273	0.28%	0.032%
216	15.266	1908	1911	1921	VV	2	1763	83545	0.82%	0.094%
217	15.359	1921	1924	1932	VV	2	1831	79111	0.77%	0.089%
218	15.431	1932	1934	1939	VV	2	1670	37157	0.36%	0.042%
219	15.481	1939	1941	1943	VV		1515	23769	0.23%	0.027%
220	15.538	1943	1949	1959	VV	2	1601	102447	1.00%	0.115%
221	15.624	1959	1961	1964	VV	2	1576	37087	0.36%	0.042%
222	15.667	1964	1967	1970	VV		1950	39292	0.38%	0.044%
223	15.739	1970	1977	1981	VV	2	1855	70842	0.69%	0.080%
224	15.803	1981	1986	1988	VV	2	1833	51154	0.50%	0.058%
225	15.839	1988	1991	1998	VV	2	1717	62469	0.61%	0.070%
226	15.904	1998	2000	2002	VV		1782	30496	0.30%	0.034%
227	15.939	2002	2005	2010	VV	2	1697	48747	0.48%	0.055%
228	16.047	2010	2020	2041	VV		73384	2158454	21.08%	2.428%
229	16.233	2041	2046	2075	VV	3	1849	240550	2.35%	0.271%
230	16.462	2075	2078	2084	VV	2	1825	61812	0.60%	0.070%
231	16.527	2084	2087	2090	VV		1946	42267	0.41%	0.048%
232	16.627	2090	2101	2113	VV	2	2311	170662	1.67%	0.192%
233	16.742	2113	2117	2119	VV	2	1956	42989	0.42%	0.048%
234	16.770	2119	2121	2126	VV		1973	56905	0.56%	0.064%

0502

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.835	2126	2130	2133	VV	2	1878	49953	0.49%	0.056%
236	16.892	2133	2138	2142	VV	2	1974	59309	0.58%	0.067%
237	16.942	2142	2145	2147	VV	2	1758	40359	0.39%	0.045%
238	16.992	2147	2152	2159	VV	2	2584	99734	0.97%	0.112%
239	17.093	2159	2166	2171	VV		2011	94253	0.92%	0.106%
240	17.200	2171	2181	2187	VV	2	2126	122392	1.20%	0.138%
241	17.257	2187	2189	2206	VV	2	1995	140822	1.38%	0.158%
242	17.394	2206	2208	2220	VV	2	1896	106266	1.04%	0.120%
243	17.508	2220	2224	2232	VV	3	2219	100809	0.98%	0.113%
244	17.651	2232	2244	2256	VV		92943	2571809	25.11%	2.893%
245	17.773	2256	2261	2263	VV	2	2335	61980	0.61%	0.070%
246	17.852	2263	2272	2282	VV	2	2163	149068	1.46%	0.168%
247	18.002	2282	2293	2296	VV	2	2172	111424	1.09%	0.125%
248	18.038	2296	2298	2304	VV	2	1992	65250	0.64%	0.073%
249	18.174	2304	2317	2326	VV	2	2040	173945	1.70%	0.196%
250	18.418	2326	2351	2362	VV		220912	6039722	58.98%	6.795%
251	18.511	2362	2364	2368	VV	2	2237	52621	0.51%	0.059%
252	18.597	2368	2376	2391	VV	2	2671	222753	2.18%	0.251%
253	18.740	2391	2396	2401	VV	2	2372	82965	0.81%	0.093%
254	18.812	2401	2406	2410	VV	2	2294	81380	0.79%	0.092%
255	18.869	2410	2414	2417	VV		2378	66550	0.65%	0.075%
256	18.912	2417	2420	2422	VV		2089	37553	0.37%	0.042%
257	18.977	2422	2429	2442	VV	2	2341	176348	1.72%	0.198%
258	19.084	2442	2444	2459	VV	2	2405	144432	1.41%	0.162%
259	19.213	2459	2462	2464	VV	2	2331	47507	0.46%	0.053%
260	19.263	2464	2469	2477	VV	2	2350	114801	1.12%	0.129%
261	19.378	2477	2485	2498	VV	2	2419	182579	1.78%	0.205%
262	19.514	2498	2504	2511	VV	2	2123	118981	1.16%	0.134%
263	19.585	2511	2514	2516	VV	2	2226	39134	0.38%	0.044%
264	19.607	2516	2517	2524	VV	2	2308	74659	0.73%	0.084%
265	19.671	2524	2526	2529	VV	2	2124	43728	0.43%	0.049%
266	19.714	2529	2532	2544	VV	2	2318	134754	1.32%	0.152%
267	19.829	2544	2548	2553	VV		2272	79573	0.78%	0.090%
268	19.872	2553	2554	2571	VV	2	2394	169281	1.65%	0.190%
269	20.029	2571	2576	2585	VV	2	2521	133707	1.31%	0.150%
270	20.123	2585	2589	2595	VV	2	2620	90404	0.88%	0.102%
271	20.209	2595	2601	2627	VV	2	2641	302022	2.95%	0.340%
272	20.423	2627	2631	2639	VV	2	2464	113541	1.11%	0.128%
273	20.495	2639	2641	2649	VV		2734	101784	0.99%	0.115%
274	20.574	2649	2652	2660	VV	2	2589	109394	1.07%	0.123%
275	20.667	2660	2665	2667	VV	2	2540	70473	0.69%	0.079%
276	20.696	2667	2669	2680	VV	2	2429	130006	1.27%	0.146%
277	20.825	2680	2687	2697	VV	2	2589	165143	1.61%	0.186%
278	20.925	2697	2701	2704	VV	2	2409	65336	0.64%	0.074%
279	20.975	2704	2708	2710	VV		2532	66093	0.65%	0.074%
280	21.025	2710	2715	2727	VV	2	2620	159906	1.56%	0.180%
281	21.176	2727	2736	2739	VV	2	2745	121187	1.18%	0.136%

0503

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

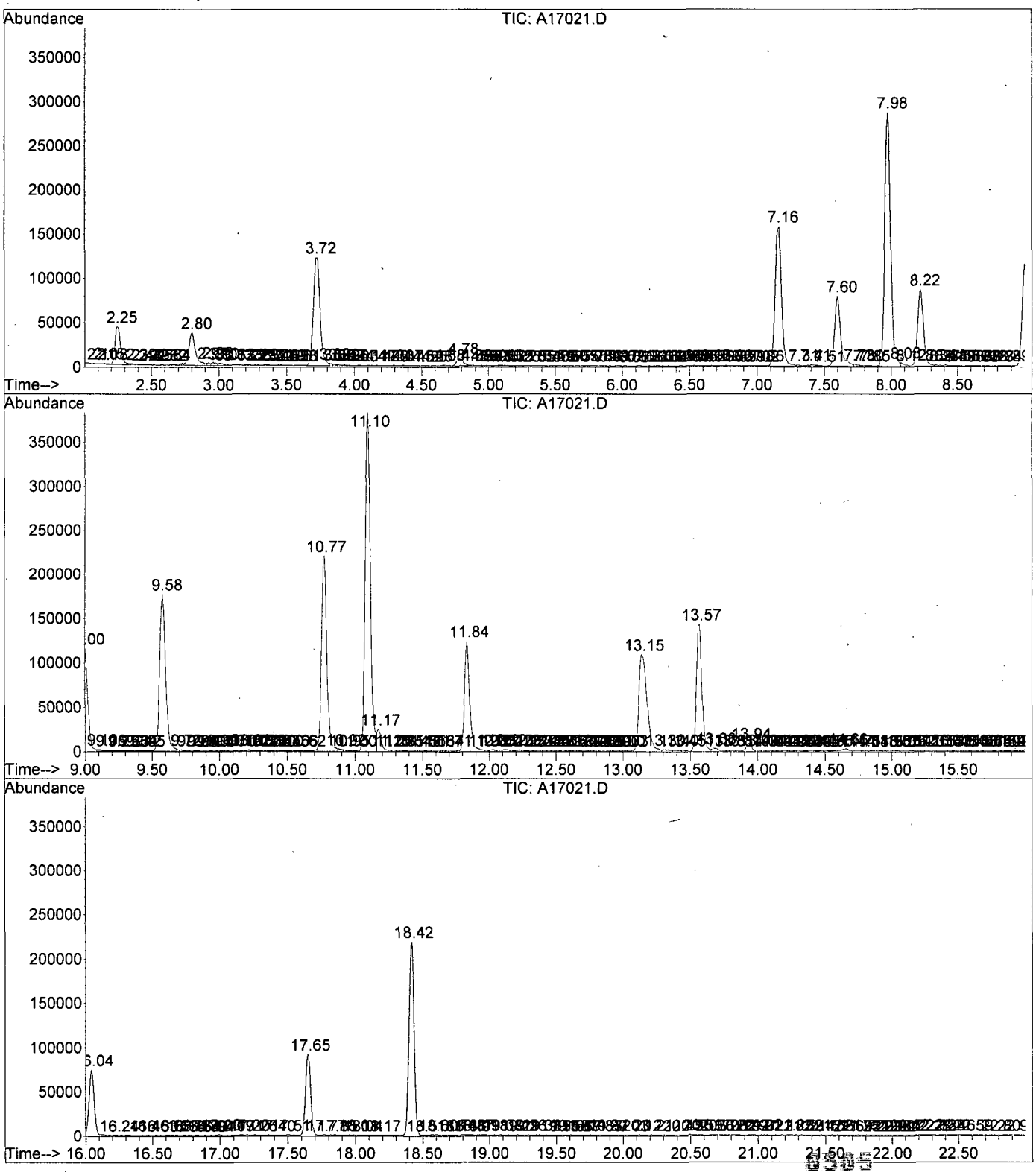
282	21.247	2739	2746	2755	VV 2	2971	175729	1.72%	0.198%
283	21.326	2755	2757	2774	VV 2	2645	181104	1.77%	0.204%
284	21.469	2774	2777	2780	VV 2	2707	67198	0.66%	0.076%
285	21.505	2780	2782	2786	VV 2	2536	54058	0.53%	0.061%
286	21.548	2786	2788	2804	VV 2	2754	188525	1.84%	0.212%
287	21.691	2804	2808	2812	VV 2	2455	73414	0.72%	0.083%
288	21.749	2812	2816	2817	VV	2672	53022	0.52%	0.060%
289	21.770	2817	2819	2837	VV 2	2576	211998	2.07%	0.239%
290	21.913	2837	2839	2842	VV	2556	53887	0.53%	0.061%
291	21.985	2842	2849	2851	VV 2	2636	94364	0.92%	0.106%
292	22.014	2851	2853	2855	VV	2460	32380	0.32%	0.036%
293	22.042	2855	2857	2859	VV 2	2556	51991	0.51%	0.058%
294	22.071	2859	2861	2864	VV	2586	49543	0.48%	0.056%
295	22.114	2864	2867	2885	VV 2	2773	227552	2.22%	0.256%
296	22.279	2885	2890	2892	VV	2497	71467	0.70%	0.080%
297	22.322	2892	2896	2899	VV 2	2823	71497	0.70%	0.080%
298	22.386	2899	2905	2914	VV	2670	167464	1.64%	0.188%
299	22.465	2914	2916	2927	VV 2	2754	141480	1.38%	0.159%
300	22.594	2927	2934	2957	VV 2	2745	325574	3.18%	0.366%
301	22.802	2957	2963	2965	VV 2	2673	91402	0.89%	0.103%
302	22.923	2965	2980	2985	VBA2	2727	217478	2.12%	0.245%

Sum of corrected areas: 88885426

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

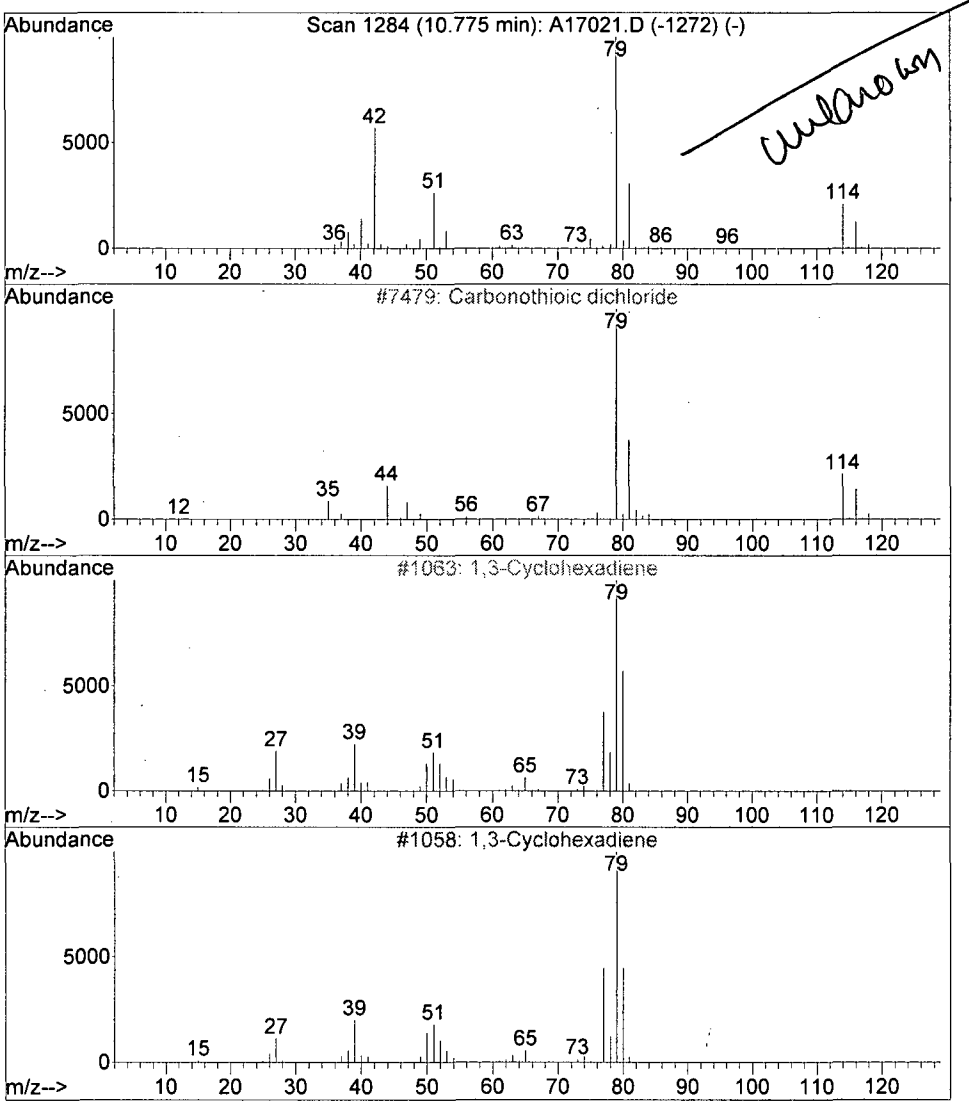
11/29/08

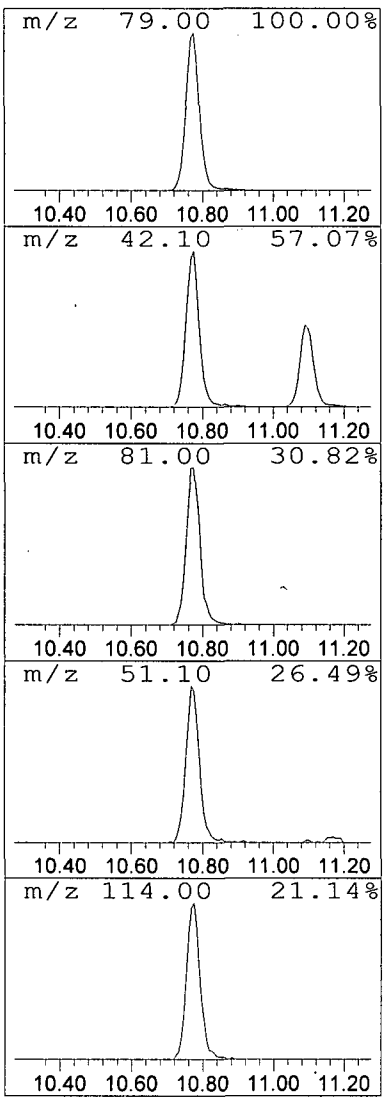
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	9.50 ug/L	6073310	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23





0506

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17021.D
Acq On : 11/26/08 15:04 Operator: SB
Sample : F2XG1 Inst : A-5973
Misc : S-2066.16 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	9.5	ug/L	6073310	1	9.00	3194880	5.0

6A - FORM VI VOA-1

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date(s): 11/24/2008 11/24/2008

Heated Purge: (Y/N) N Calibration Time(s): 1117 1441

Purge Volume: 25.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____ RRF 0.5 = A16945 RRF 1.0 = A16944

RRF 5.0 = A16939 RRF 10.0 = A16943 RRF 20.0 = A16942

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10.0	RRF 20.0	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.9638	0.9209	0.8987	0.8262	0.8707	0.8961	5.8
Chloromethane	1.3781	1.2312	1.1014	1.0247	1.0744	1.1620	12.3
Vinyl chloride	1.2039	1.0545	1.0567	0.9751	1.0284	1.0637	8.0
Bromomethane	0.4862	0.4691	0.4287	0.4018	0.4011	0.4374	8.9
Chloroethane	0.5971	0.5413	0.4624	0.3682	0.3218	0.4582	25.1
Trichlorofluoromethane	1.6627	1.5651	1.5480	1.4405	1.5633	1.5559	5.1
1,1-Dichloroethene	0.8016	0.7527	0.7633	0.7617	0.8117	0.7782	3.4
1,1,2-Trichloro-1,2,2-trifluoroethane	0.9192	0.8752	0.8587	0.8115	0.8779	0.8685	4.5
Acetone	0.0914	0.1103	0.0839	0.0761	0.0811	0.0886	15.1
Carbon disulfide	2.7702	2.5394	2.6909	2.5902	2.7985	2.6778	4.2
Methyl acetate	0.2991	0.3378	0.2730	0.2409	0.2650	0.2832	13.0
Methylene chloride	0.9794	0.8725	0.7764	0.7157	0.7563	0.8201	12.9
trans-1,2-Dichloroethene	0.9103	0.8032	0.8320	0.7810	0.8633	0.8380	6.1
Methyl tert-butyl ether	1.1641	1.1463	1.1522	1.1261	1.2172	1.1612	2.9
1,1-Dichloroethane	1.7936	1.6100	1.6536	1.5374	1.6649	1.6519	5.7
cis-1,2-Dichloroethene	0.8523	0.7874	0.7766	0.7699	0.8513	0.8075	5.1
2-Butanone	0.1504	0.1632	0.1361	0.1260	0.1362	0.1424	10.2
Bromochloromethane	0.3427	0.3007	0.3106	0.2895	0.3174	0.3122	6.4
Chloroform	1.6402	1.5261	1.4697	1.4142	1.5012	1.5103	5.5
1,1,1-Trichloroethane	1.7495	1.5154	1.5486	1.5076	1.5421	1.5726	6.4
Cyclohexane	1.7842	1.7686	2.0612	2.0039	2.0871	1.9410	7.9
Carbon tetrachloride	1.4710	1.2158	1.3110	1.2709	1.3045	1.3146	7.2
Benzene	4.3015	3.8642	4.0479	3.8516	3.9762	4.0083	4.6
1,2-Dichloroethane	0.9474	0.8670	0.8399	0.7857	0.8566	0.8593	6.8
1,4-Dioxane							
Trichloroethene	1.0913	1.0407	1.1062	1.0265	1.0478	1.0625	3.2
Methylcyclohexane	1.4658	1.4207	1.6870	1.6726	1.7659	1.6024	9.4

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date(s): 11/24/2008 11/24/2008

Heated Purge: (Y/N) N Calibration Time(s): 1117 1441

Purge Volume: 25.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____ RRF 0.5 = A16945 RRF 1.0 = A16944

RRF 5.0 = A16939 RRF 10.0 = A16943 RRF 20.0 = A16942

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10.0	RRF 20.0	$\overline{RRF}$	% RSD
1,2-Dichloropropane	1.1107	0.9779	0.9727	0.9215	0.9586	0.9883	7.3
Bromodichloromethane	1.1151	1.0190	1.0605	1.0155	1.0701	1.0560	3.9
cis-1,3-Dichloropropene	1.1759	1.2018	1.3131	1.2768	1.3363	1.2608	5.5
4-Methyl-2-pentanone	0.2723	0.2312	0.3303	0.3409	0.3603	0.3070	17.5
Toluene	4.3000	3.8382	4.1654	3.9782	4.1216	4.0807	4.4
trans-1,3-Dichloropropene	0.8510	0.8426	1.0117	0.9672	1.0446	0.9434	9.8
1,1,2-Trichloroethane	0.5590	0.4993	0.4923	0.4652	0.4878	0.5007	7.0
Tetrachloroethene	0.8760	0.8074	0.7864	0.7756	0.7886	0.8068	5.0
2-Hexanone	0.1187	0.1865	0.2266	0.2265	0.2428	0.2002	25.0
Dibromochloromethane	0.5223	0.5350	0.5659	0.5470	0.5839	0.5508	4.4
1,2-Dibromoethane	0.4941	0.4129	0.4582	0.4261	0.4579	0.4498	7.0
Chlorobenzene	2.6926	2.3863	2.4391	2.3250	2.4352	2.4556	5.7
Ethylbenzene	4.4347	3.9672	4.5311	4.3929	4.6083	4.3868	5.7
o-Xylene	1.3808	1.2886	1.5662	1.5387	1.6210	1.4791	9.4
m,p-Xylene	1.5265	1.4250	1.7137	1.6810	1.7614	1.6215	8.7
Styrene	1.4563	1.5163	1.9102	1.8653	2.0235	1.7543	14.4
Bromoform	0.7161	0.6633	0.6306	0.5788	0.6242	0.6426	7.9
Isopropylbenzene	3.3458	3.2962	4.1600	4.0236	4.3336	3.8318	12.5
1,1,2,2-Tetrachloroethane	0.4971	0.4784	0.4577	0.4268	0.4576	0.4635	5.7
1,3-Dichlorobenzene	4.0710	3.7455	3.5462	3.3016	3.3865	3.6102	8.5
1,4-Dichlorobenzene	4.0703	3.9741	3.7091	3.3592	3.4115	3.7048	8.7
1,2-Dichlorobenzene	3.6267	3.2745	3.0585	2.7940	2.8499	3.1207	10.9
1,2-Dibromo-3-chloropropane	0.0473	0.1013	0.1040	0.0889	0.0974	0.0878	26.6
1,2,4-Trichlorobenzene	1.0547	1.0706	1.0616	1.3196	1.5590	1.2131	18.4
1,2,3-Trichlorobenzene	1.3554	1.0446	0.7205	0.9476	1.1366	1.0409	22.5

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date(s): 11/24/2008 11/24/2008

Heated Purge: (Y/N) N Calibration Time(s): 1117 1441

Purge Volume: 25.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____ RRF 0.5 = A16945 RRF 1.0 = A16944

RRF 5.0 = A16939 RRF 10.0 = A16943 RRF 20.0 = A16942

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10.0	RRF 20.0	$\overline{\text{RRF}}$	% RSD
Vinyl chloride-d3	0.7052	0.6977	0.6626	0.5794	0.6136	0.6517	8.3
Chloroethane-d5	0.4804	0.4417	0.4214	0.2960	0.2879	0.3855	22.8
1,1-Dichloroethene-d2	1.6460	1.5506	1.6497	1.5161	1.6615	1.6048	4.1
2-Butanone-d5	0.1088	0.1381	0.1184	0.1071	0.1133	0.1171	10.7
Chloroform-d	2.1176	1.8497	1.7099	1.5101	1.6571	1.7689	13.0
1,2-Dichloroethane-d4	0.7420	0.7371	0.7399	0.6299	0.6847	0.7067	7.0
Benzene-d6	3.8770	3.5719	3.9679	3.4574	3.5649	3.6878	6.0
1,2-Dichloropropane-d6	1.1494	1.1244	1.1573	1.0017	1.0456	1.0957	6.3
Toluene-d8	3.3894	3.1431	3.6853	3.2630	3.4142	3.3790	6.0
trans-1,3-Dichloropropene-d4	0.7986	0.9012	1.0623	0.9676	1.0459	0.9551	11.4
2-Hexanone-d5	0.0307	0.0497	0.0588	0.0663	0.0700	0.0551	28.5
1,4-Dioxane-d8							
1,1,2,2-Tetrachloroethane-d2	0.5086	0.5476	0.5573	0.4774	0.5130	0.5208	6.2
1,2-Dichlorobenzene-d4	2.4787	2.4864	2.3857	1.9645	2.0488	2.2728	10.9

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Response Factor Report A-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Tue Nov 25 10:04:00 2008
Response Via : Initial Calibration

Calibration Files
3 =A16939.D 1 =A16945.D 2 =A16944.D
4 =A16943.D 5 =A16942.D

		Compound	3	1	2	4	5	Avg	%RSD
1)		1,4-Difluorobenzene	ISTD						
2)		Dichlorodifluoromet	0.899	0.964	0.921	0.826	0.871	0.896	5.78
3)		Chloromethane	1.101	1.378	1.231	1.025	1.074	1.162	12.30
4)	S	Vinyl chloride-d3	0.663	0.705	0.698	0.579	0.614	0.652	8.33
5)		Vinyl Chloride	1.057	1.204	1.055	0.975	1.028	1.064	7.99
6)		Bromomethane	0.429	0.486	0.469	0.402	0.401	0.437	8.89
7)	S	Chloroethane-d5	0.421	0.480	0.442	0.296	0.288	0.385	22.84
8)		Chloroethane	0.462	0.597	0.541	0.368	0.322	0.458	25.11
9)		Trichlorofluorometh	1.548	1.663	1.565	1.440	1.563	1.556	5.07
10)	S	1,1-Dichloroethene-	1.650	1.646	1.551	1.516	1.662	1.605	4.15
11)		1,1-Dichloroethene	0.763	0.802	0.753	0.762	0.812	0.778	3.41
12)		1,1,2-Trichloro-1,2	0.859	0.919	0.875	0.811	0.878	0.868	4.48
13)		Acetone	0.084	0.091	0.110	0.076	0.081	0.089	15.07
14)		Carbon Disulfide	2.691	2.770	2.539	2.590	2.798	2.678	4.18
15)		Methyl acetate	0.273	0.299	0.338	0.241	0.265	0.283	13.05
16)		Methylene Chloride	0.776	0.979	0.872	0.716	0.756	0.820	12.94
17)		trans-1,2-Dichloroe	0.832	0.910	0.803	0.781	0.863	0.838	6.08
18)		Methyl tert-Butyl E	1.152	1.164	1.146	1.126	1.217	1.161	2.95
19)		1,1-Dichloroethane	1.654	1.794	1.610	1.537	1.665	1.652	5.67
20)		cis-1,2-Dichloroeth	0.777	0.852	0.787	0.770	0.851	0.807	5.07
21)	S	2-Butanone-d5	0.118	0.109	0.138	0.107	0.113	0.117	10.66
22)		2-Butanone	0.136	0.150	0.163	0.126	0.136	0.142	10.22
23)		Bromochloromethane	0.311	0.343	0.301	0.289	0.317	0.312	6.43
24)	S	Chloroform-d	1.710	2.118	1.850	1.510	1.657	1.769	12.99
25)		Chloroform	1.470	1.640	1.526	1.414	1.501	1.510	5.55
26)	S	1,2-Dichloroethane-	0.740	0.742	0.737	0.630	0.685	0.707	6.95
27)		1,2-Dichloroethane	0.840	0.947	0.867	0.786	0.857	0.859	6.79
28)		Chlorobenzene-d5	ISTD						
29)		1,1,1-Trichloroetha	1.549	1.749	1.515	1.508	1.542	1.573	6.38
30)		Cyclohexane	2.061	1.784	1.769	2.004	2.087	1.941	7.90
31)		Carbon tetrachlorid	1.311	1.471	1.216	1.271	1.304	1.315	7.24
32)	S	Benzene-d6	3.968	3.877	3.572	3.457	3.565	3.688	6.00
33)		Benzene	4.048	4.301	3.864	3.852	3.976	4.008	4.56
34)		Trichloroethene	1.106	1.091	1.041	1.026	1.048	1.062	3.23
35)		Methylcyclohexane	1.687	1.466	1.421	1.673	1.766	1.602	9.39
36)	S	1,2-Dichloropropane	1.157	1.149	1.124	1.002	1.046	1.096	6.26
37)		1,2-Dichloropropane	0.973	1.111	0.978	0.922	0.959	0.988	7.28
38)		Bromodichloromethan	1.061	1.115	1.019	1.015	1.070	1.056	3.88
39)		cis-1,3-Dichloropro	1.313	1.176	1.202	1.277	1.336	1.261	5.52
40)		4-Methyl-2-Pentanon	0.330	0.272	0.231	0.341	0.360	0.307	17.45
41)	S	Toluene-d8	3.685	3.389	3.143	3.263	3.414	3.379	6.00
42)		Toluene	4.165	4.300	3.838	3.978	4.122	4.081	4.35
43)	S	trans-1,3-Dichlorop	1.062	0.799	0.901	0.968	1.046	0.955	11.38
44)		trans-1,3-Dichlorop	1.012	0.851	0.843	0.967	1.045	0.943	9.80
45)		1,1,2-Trichloroetha	0.492	0.559	0.499	0.465	0.488	0.501	6.99
46)		Tetrachloroethene	0.786	0.876	0.807	0.776	0.789	0.807	5.00
47)	S	2-Hexanone-d5	0.059	0.031	0.050	0.066	0.070	0.055	28.46
48)		2-Hexanone	0.227	0.119	0.186	0.227	0.243	0.200	25.01
49)		Dibromochloromethan	0.566	0.522	0.535	0.547	0.584	0.551	4.44
50)		1,2-Dibromoethane	0.458	0.494	0.413	0.426	0.458	0.450	7.05
51)		Chlorobenzene	2.439	2.693	2.386	2.325	2.435	2.456	5.71
52)		Ethylbenzene	4.531	4.435	3.967	4.393	4.608	4.387	5.68
53)		m,p-Xylene	1.714	1.527	1.425	1.681	1.761	1.622	8.68
54)		o-Xylene	1.566	1.381	1.289	1.539	1.621	1.479	9.39
55)		Styrene	1.910	1.456	1.516	1.865	2.023	1.754	14.38
56)		Isopropylbenzene	4.160	3.346	3.296	4.024	4.334	3.832	12.51

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Tue Nov 25 10:04:00 2008
Response Via : Initial Calibration

Calibration Files
3 =A16939.D 1 =A16945.D 2 =A16944.D
4 =A16943.D 5 =A16942.D

		Compound	3	1	2	4	5	Avg	%RSD
57)	S	1,1,2,2-Tetrachloro	0.557	0.509	0.548	0.477	0.513	0.521	6.18
58)		1,1,2,2-Tetrachloro	0.458	0.497	0.478	0.427	0.458	0.464	5.67
59)		1,4-Dichlorobenzene-d	ISTD						
60)		Bromoform	0.631	0.716	0.663	0.579	0.624	0.643	7.93
61)		1,3-Dichlorobenzene	3.546	4.071	3.746	3.302	3.387	3.610	8.54
62)		1,4-Dichlorobenzene	3.709	4.070	3.974	3.359	3.411	3.705	8.66
63)	S	1,2-Dichlorobenzene	2.386	2.479	2.486	1.964	2.049	2.273	10.91
64)		1,2-Dichlorobenzene	3.059	3.627	3.275	2.794	2.850	3.121	10.91
65)		1,2-Dibromo-3-chlor	0.104	0.047	0.101	0.089	0.097	0.088	26.58
66)		1,2,4-Trichlorobenz	1.062	1.055	1.071	1.320	1.559	1.213	18.40
67)		1,2,3-Trichlorobenz	0.720	1.355	1.045	0.948	1.137	1.041	22.50

(#) = Out of Range

0512

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A16939.D
Acq On : 11/24/08 11:17 Operator: SB
Sample : VSTD00516 Inst : A-5973
Misc : VSTD00516 25ML
ALS Vial : 6 Sample Multiplier: 1

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 Init/date: 11/26/08

Quant Time: Nov 24 12:56:43 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 12:55:53 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.99	114	1424837	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.56	117	1186270	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.64	152	527042	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	944059	5.06	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery =	101.20%		
7) Chloroethane-d5	2.79	69	600383m	6.84	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery =	136.80%#		
10) 1,1-Dichloroethene-d2	3.72	63	2350499	5.06	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery =	101.20%		
21) 2-Butanone-d5	7.58	46	1687475	53.54	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery =	107.08%		
24) Chloroform-d	7.15	84	2436385	4.64	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery =	92.80%		
26) 1,2-Dichloroethane-d4	8.21	65	1054271	5.27	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery =	105.40%		
32) Benzene-d6	7.96	84	4707018	5.27	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery =	105.40%		
36) 1,2-Dichloropropane-d6	9.57	67	1372814	5.16	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery =	103.20%		
41) Toluene-d8	11.08	98	4371764	5.33	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery =	106.60%		
43) trans-1,3-Dichloropropene-	11.82	79	1260157	5.57	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery =	111.40%		
47) 2-Hexanone-d5	13.12	63	697922	121.08	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery =	242.16%#		
57) 1,1,2,2-Tetrachloroethane-	16.03	84	661103	5.35	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery =	107.00%		
63) 1,2-Dichlorobenzene-d4	18.40	152	1257344	5.22	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery =	104.40%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	1280441	4.77	ug/L	100
3) Chloromethane	2.14	50	1569375	4.48	ug/L	96
5) Vinyl Chloride	2.25	62	1505607	4.77	ug/L	99
6) Bromomethane	2.65	94	610897	4.47	ug/L	96
8) Chloroethane	2.82	64	658784	4.79	ug/L	99
9) Trichlorofluoromethane	3.01	101	2205676	4.71	ug/L	99
11) 1,1-Dichloroethene	3.73	96	1087511	4.63	ug/L #	37
12) 1,1,2-Trichloro-1,2,2-trif	3.82	101	1223519	4.76	ug/L	94
13) Acetone	4.77	43	1195321	49.00	ug/L	98
14) Carbon Disulfide	3.72	76	3834164	4.83	ug/L	99
15) Methyl acetate	5.01	43	388912	4.76	ug/L	98
16) Methylene Chloride	4.66	84	1106300	4.66	ug/L	99
17) trans-1,2-Dichloroethene	4.92	96	1185435	4.80	ug/L	99
18) Methyl tert-Butyl Ether	5.14	73	1641697	5.11	ug/L	95
19) 1,1-Dichloroethane	5.88	63	2356090	4.90	ug/L	99
20) cis-1,2-Dichloroethene	6.72	96	1106546	4.70	ug/L	96
22) 2-Butanone	7.65	43	1939457	51.12	ug/L	95
23) Bromochloromethane	7.01	128	442529	4.77	ug/L	92
25) Chloroform	7.16	83	2094130	4.73	ug/L	100
27) 1,2-Dichloroethane	8.31	62	1196693	4.83	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	1837069	4.80	ug/L	97
30) Cyclohexane	6.98	56	2445133	5.13	ug/L	99
31) Carbon tetrachloride	7.32	117	1555186	4.[illegible]	ug/L	100

Data File: C:\MSDChem\1\DATA\A16939.D
Acq On : 11/24/08 11:17 Operator: SB
Sample : VSTD00516 Inst : A-5973
Misc : VSTD00516 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 12:56:43 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 12:55:53 2008
Response via : Initial Calibration

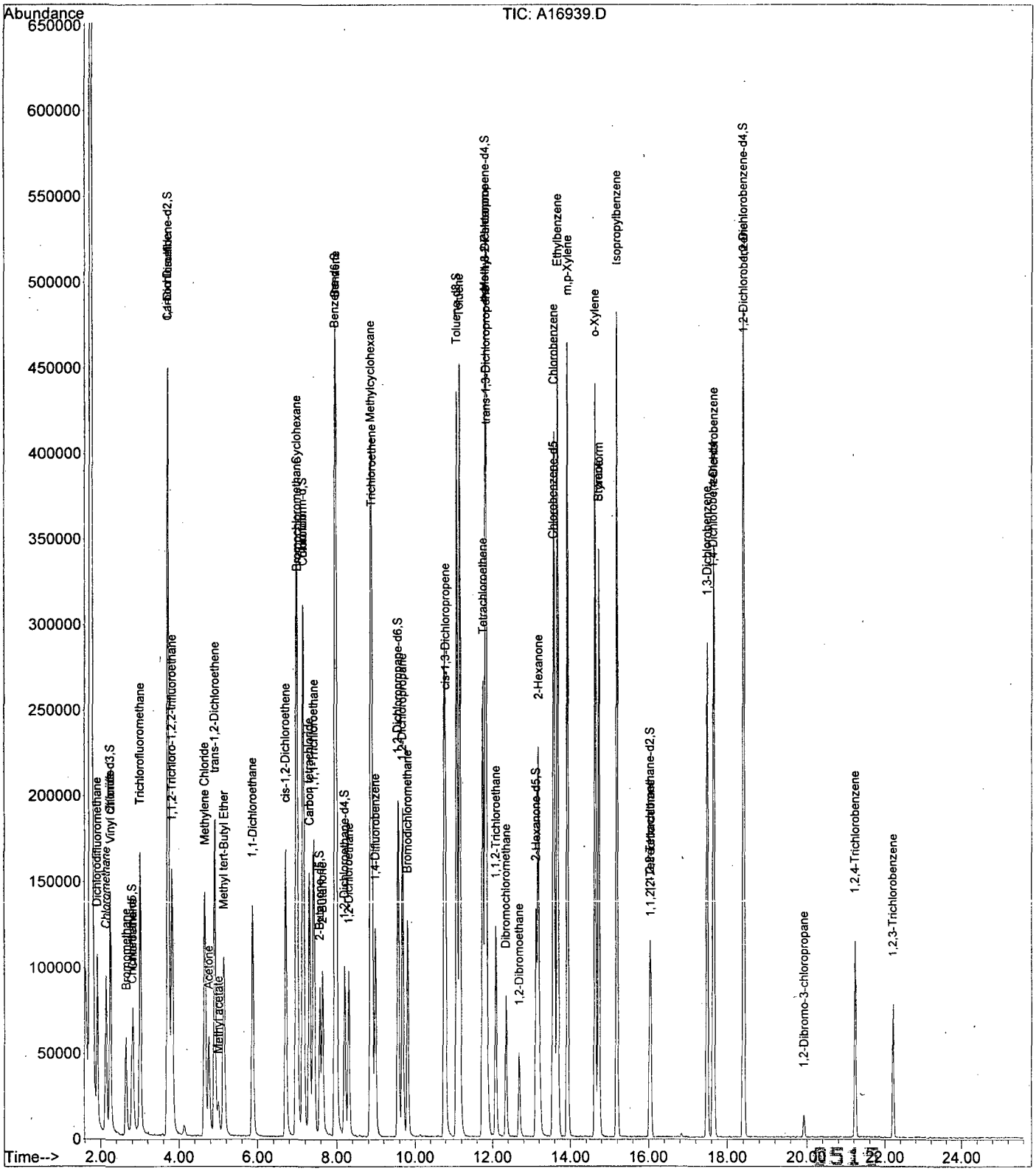
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.00	78	4801955	4.86	ug/L		100
34) Trichloroethene	8.90	95	1312208	5.01	ug/L		98
35) Methylcyclohexane	8.87	83	2001188	5.14	ug/L		98
37) 1,2-Dichloropropane	9.68	63	1153881	4.82	ug/L		99
38) Bromodichloromethane	9.82	83	1258056	4.93	ug/L		97
39) cis-1,3-Dichloropropene	10.80	75	1557690	5.16	ug/L		99
40) 4-Methyl-2-Pentanone	11.81	43	3918168	55.69	ug/L		96
42) Toluene	11.16	91	4941252	4.97	ug/L		100
44) trans-1,3-Dichloropropene	11.84	75	1200135	5.35	ug/L		100
45) 1,1,2-Trichloroethane	12.09	97	583990	4.95	ug/L		97
46) Tetrachloroethene	11.75	164	932873	4.69	ug/L		96
48) 2-Hexanone	13.18	43	2688590	57.74	ug/L		99
49) Dibromochloromethane	12.35	129	671341	5.07	ug/L		96
50) 1,2-Dibromoethane	12.69	107	543600	5.03	ug/L	#	99
51) Chlorobenzene	13.58	112	2893459	4.72	ug/L		96
52) Ethylbenzene	13.67	91	5375141	4.95	ug/L		98
53) m,p-Xylene	13.93	106	2032863	5.07	ug/L		95
54) o-Xylene	14.64	106	1857917	5.10	ug/L		94
55) Styrene	14.73	104	2265964	5.23	ug/L	#	100
56) Isopropylbenzene	15.20	105	4934856	5.12	ug/L		99
58) 1,1,2,2-Tetrachloroethane	16.06	83	542923	4.97	ug/L		97
60) Bromoform	14.73	173	332360	4.84	ug/L	#	93
61) 1,3-Dichlorobenzene	17.50	146	1868984	4.83	ug/L		97
62) 1,4-Dichlorobenzene	17.66	146	1954857	4.83	ug/L		94
64) 1,2-Dichlorobenzene	18.42	146	1611977	4.71	ug/L		97
65) 1,2-Dibromo-3-chloropropan	19.93	75	54797	6.86	ug/L	#	75
66) 1,2,4-Trichlorobenzene	21.24	180	559528	3.47	ug/L	#	93
67) 1,2,3-Trichlorobenzene	22.21	180	379720	2.44	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0514

Data File: C:\MSDChem\1\DATA\A16939.D
Acq On : 11/24/08 11:17 Operator: SB
Sample : VSTD00516 Inst : A-5973
Misc : VSTD00516 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 12:56:43 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 12:55:53 2008
Response via : Initial Calibration

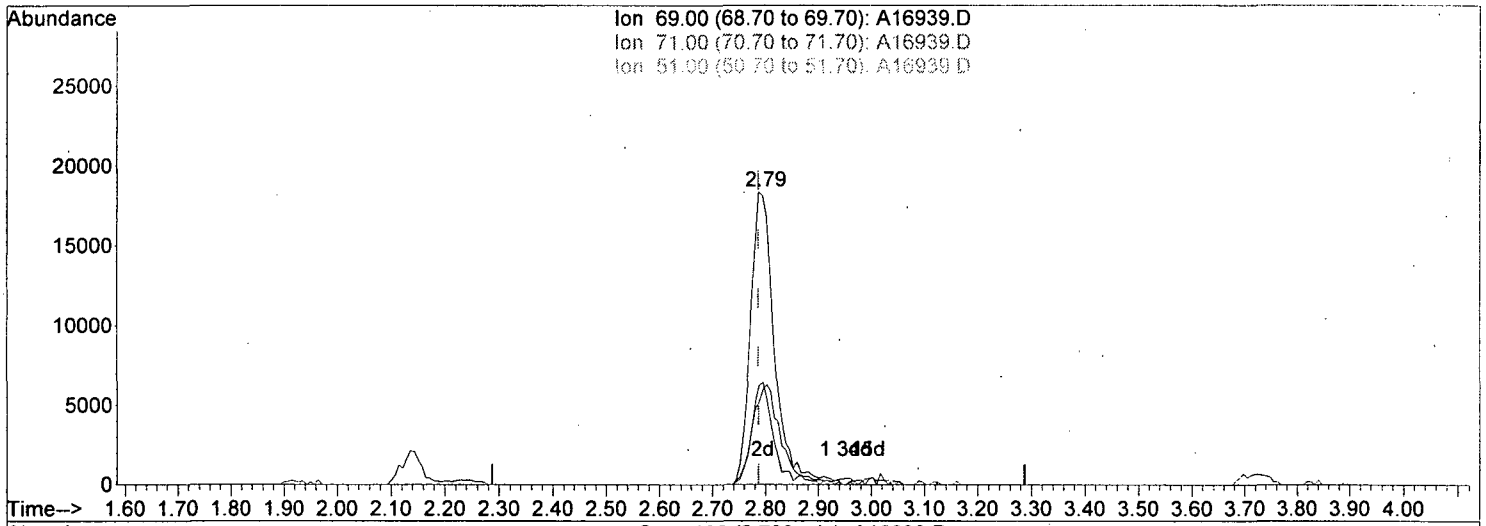


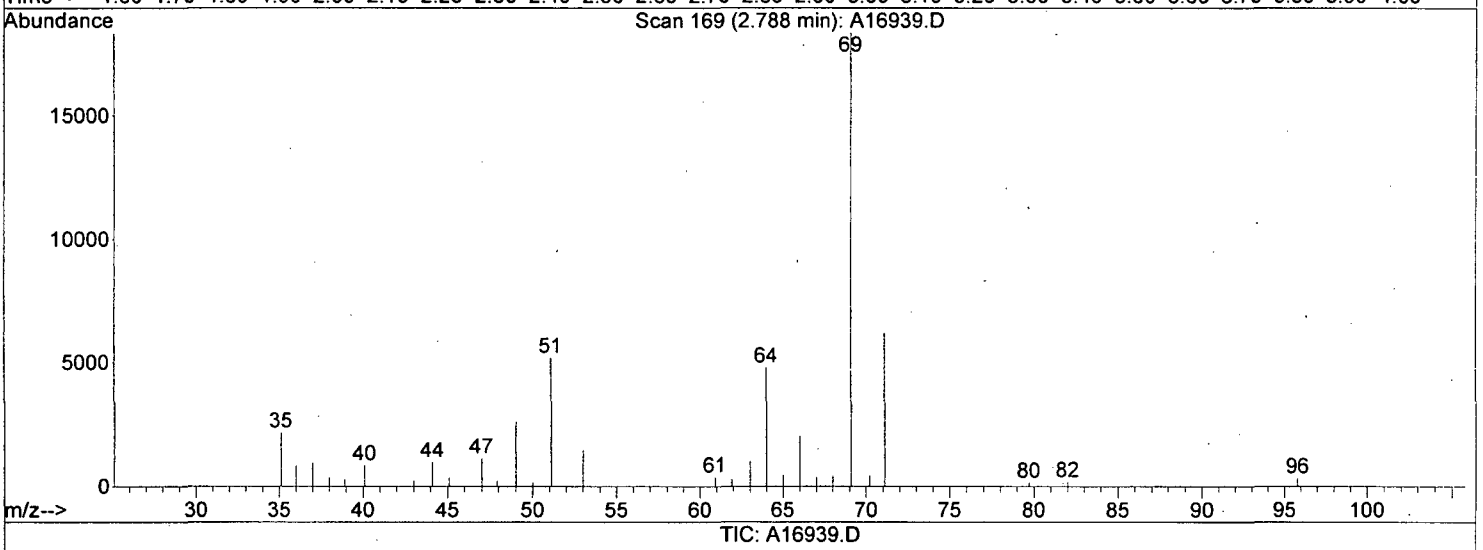
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\A16939.D
Acq On : 11/24/08 11:17 Operator: SB
Sample : VSTD00516 Inst : A-5973
Misc : VSTD00516 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 12:56:43 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 12:55:53 2008
Response via : Initial Calibration

11/26/08





TIC: A16939.D

(7) Chloroethane-d5 (S)

2.788min (0.000) 6.84ug/L m

response 600383

Ion	Exp%	Act%
69.00	100	100
71.00	32.00	0.43#
51.00	33.70	0.38#
0.00	0.00	0.00

0516

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A16942.D
Acq On : 11/24/08 13:01 Operator: SB
Sample : VSTD02016 Inst : A-5973
Misc : VSTD02016 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 24 13:44:44 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 13:15:39 2008
Response via : Initial Calibration

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 init/date: 11/26/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.99	114	1394030	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.56	117	1224222	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.64	152	610072	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	3421415	18.75	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 375.00%#			
7) Chloroethane-d5	2.79	69	1605215	14.24	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 284.80%#			
10) 1,1-Dichloroethene-d2	3.71	63	9264737	20.40	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 408.00%#			
21) 2-Butanone-d5	7.58	46	6318999	203.70	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 407.40%#			
24) Chloroform-d	7.15	84	9239993	17.96	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 359.20%#			
26) 1,2-Dichloroethane-d4	8.21	65	3817795	19.37	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 387.40%#			
32) Benzene-d6	7.96	84	17457138	19.12	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 382.40%#			
36) 1,2-Dichloropropane-d6	9.57	67	5120290	18.76	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 375.20%#			
41) Toluene-d8	11.09	98	16718851	20.08	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 401.60%#			
43) trans-1,3-Dichloropropene-	11.83	79	5121692	21.86	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 437.20%#			
47) 2-Hexanone-d5	13.12	63	3426746	368.06	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 736.12%#			
57) 1,1,2,2-Tetrachloroethane-	16.03	84	2511888	20.26	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 405.20%#			
63) 1,2-Dichlorobenzene-d4	18.41	152	4999619	18.05	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 361.00%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	4854954	18.48	ug/L	98
3) Chloromethane	2.14	50	5990929	17.73	ug/L	99
5) Vinyl Chloride	2.25	62	5734607	18.58	ug/L	99
6) Bromomethane	2.65	94	2236515	17.02	ug/L	97
8) Chloroethane	2.81	64	1794201	13.45	ug/L	100
9) Trichlorofluoromethane	3.00	101	8717235	19.12	ug/L	100
11) 1,1-Dichloroethene	3.72	96	4526412	19.97	ug/L #	44
12) 1,1,2-Trichloro-1,2,2-trif	3.82	101	4895197	19.45	ug/L	93
13) Acetone	4.76	43	4524350	187.18	ug/L	98
14) Carbon Disulfide	3.72	76	15604569	20.20	ug/L	100
15) Methyl acetate	5.00	43	1477493	18.25	ug/L	96
16) Methylene Chloride	4.66	84	4217294	18.20	ug/L	98
17) trans-1,2-Dichloroethene	4.91	96	4814081	20.00	ug/L	99
18) Methyl tert-Butyl Ether	5.13	73	6787287	21.40	ug/L	93
19) 1,1-Dichloroethane	5.88	63	9283765	19.76	ug/L	98
20) cis-1,2-Dichloroethene	6.72	96	4747197	20.60	ug/L	99
22) 2-Butanone	7.65	43	7592115	201.37	ug/L	94
23) Bromochloromethane	7.01	128	1770031	19.47	ug/L	92
25) Chloroform	7.17	83	8370760	19.40	ug/L	99
27) 1,2-Dichloroethane	8.31	62	4776232	19.57	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	7551673	19.39	ug/L	96
30) Cyclohexane	6.99	56	10220509	20.96	ug/L	99
31) Carbon tetrachloride	7.32	117	6387813	19.51	ug/L	97

Data File: C:\MSDChem\1\DATA\A16942.D
Acq On : 11/24/08 13:01 Operator: SB
Sample : VSTD02016 Inst : A-5973
Misc : VSTD02016 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 24 13:44:44 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 13:15:39 2008
Response via : Initial Calibration

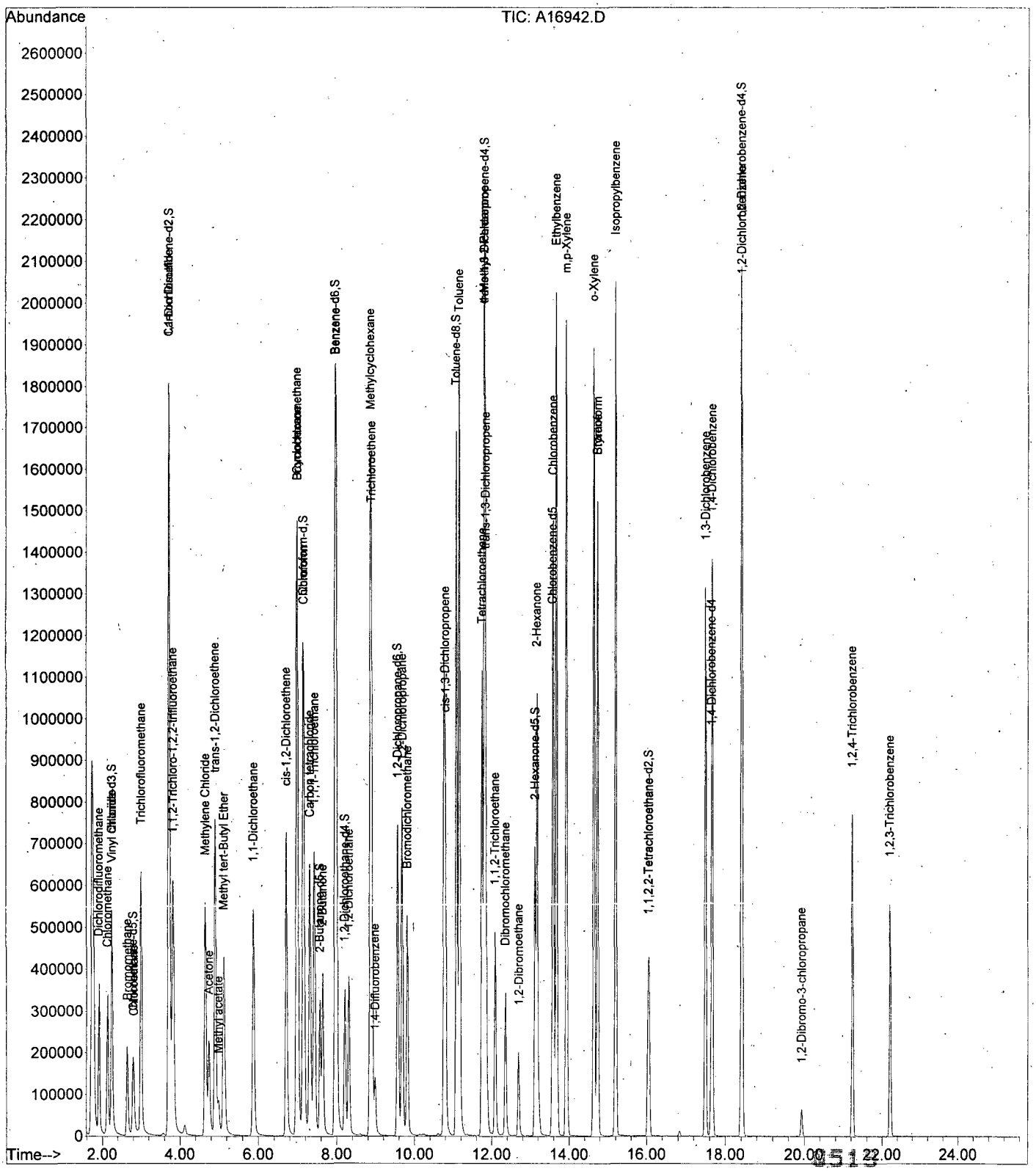
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.00	78	19471096	19.32	ug/L		100
34) Trichloroethene	8.90	95	5130719	19.19	ug/L		96
35) Methylcyclohexane	8.87	83	8647318	21.61	ug/L		99
37) 1,2-Dichloropropane	9.69	63	4694083	19.18	ug/L		100
38) Bromodichloromethane	9.82	83	5240161	20.06	ug/L		99
39) cis-1,3-Dichloropropene	10.80	75	6543623	21.11	ug/L		99
40) 4-Methyl-2-Pentanone	11.81	43	17643443	241.63	ug/L		97
42) Toluene	11.16	91	20182779	19.91	ug/L		99
44) trans-1,3-Dichloropropene	11.85	75	5115383	22.14	ug/L		98
45) 1,1,2-Trichloroethane	12.09	97	2388610	19.64	ug/L		95
46) Tetrachloroethene	11.75	164	3861872	19.05	ug/L		95
48) 2-Hexanone	13.17	43	11887551	240.89	ug/L		98
49) Dibromochloromethane	12.35	129	2859111	20.99	ug/L		98
50) 1,2-Dibromoethane	12.69	107	2242376	20.04	ug/L	#	100
51) Chlorobenzene	13.59	112	11924971	19.60	ug/L		96
52) Ethylbenzene	13.67	91	22566510	20.59	ug/L		99
53) m,p-Xylene	13.93	106	8625315	21.36	ug/L		96
54) o-Xylene	14.64	106	7937703	22.00	ug/L		97
55) Styrene	14.74	104	9908723	22.77	ug/L	#	100
56) Isopropylbenzene	15.20	105	21221270	21.96	ug/L		99
58) 1,1,2,2-Tetrachloroethane	16.06	83	2240662	20.71	ug/L		97
60) Bromoform	14.73	173	1523335	19.52	ug/L	#	93
61) 1,3-Dichlorobenzene	17.50	146	8264095	18.67	ug/L		96
62) 1,4-Dichlorobenzene	17.67	146	8324951	18.19	ug/L		97
64) 1,2-Dichlorobenzene	18.42	146	6954688	18.24	ug/L		97
65) 1,2-Dibromo-3-chloropropan	19.93	75	237691	18.14	ug/L	#	63
66) 1,2,4-Trichlorobenzene	21.24	180	3804419	21.50	ug/L	#	92
67) 1,2,3-Trichlorobenzene	22.21	180	2773586	16.42	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0518

Data File: C:\MSDChem\1\DATA\A16942.D
Acq On : 11/24/08 13:01 Operator: SB
Sample : VSTD02016 Inst : A-5973
Misc : VSTD02016 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 24 13:44:44 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 13:15:39 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File: C:\MSDChem\1\DATA\A16943.D
Acq On : 11/24/08 13:35 Operator: SB
Sample : VSTD01016 Inst : A-5973
Misc : VSTD01016 25ML
ALS Vial : 5 Sample Multiplier: 1

ORIGINAL
Case 38009 SDG: C0283
Episode S-2059 lit/date: 12/11/26/08

Quant Time: Nov 24 15:32:01 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:31:45 2008
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene			8.99	114	1614681	5.00	ug/L	0.00
28) Chlorobenzene-d5			13.56	117	1341323	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4			17.64	152	630159	5.00	ug/L	0.00
System Monitoring Compounds								
4) Vinyl chloride-d3			2.24	65	1870954	7.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 131		Recovery	=	148.40%#	
7) Chloroethane-d5			2.79	69	955774	6.70	ug/L	0.00
Spiked Amount	5.000	Range	71 - 131		Recovery	=	134.00%#	
10) 1,1-Dichloroethene-d2			3.72	63	4896097	7.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 104		Recovery	=	154.20%#	
21) 2-Butanone-d5			7.58	46	3459618	75.95	ug/L	0.00
Spiked Amount	50.000	Range	49 - 155		Recovery	=	151.90%	
24) Chloroform-d			7.15	84	4876537	7.09	ug/L	0.00
Spiked Amount	5.000	Range	78 - 121		Recovery	=	141.80%#	
26) 1,2-Dichloroethane-d4			8.21	65	2034323	7.37	ug/L	0.00
Spiked Amount	5.000	Range	78 - 129		Recovery	=	147.40%#	
32) Benzene-d6			7.97	84	9274954	7.82	ug/L	0.00
Spiked Amount	5.000	Range	77 - 124		Recovery	=	156.40%#	
36) 1,2-Dichloropropane-d6			9.57	67	2687266	7.63	ug/L	0.00
Spiked Amount	5.000	Range	79 - 124		Recovery	=	152.60%#	
41) Toluene-d8			11.09	98	8753601	7.97	ug/L	0.00
Spiked Amount	5.000	Range	77 - 121		Recovery	=	159.40%#	
43) trans-1,3-Dichloropropene-			11.82	79	2595851	8.20	ug/L	0.00
Spiked Amount	5.000	Range	73 - 121		Recovery	=	164.00%#	
47) 2-Hexanone-d5			13.12	63	1779490	103.85	ug/L	0.00
Spiked Amount	50.000	Range	28 - 135		Recovery	=	207.70%#	
57) 1,1,2,2-Tetrachloroethane-			16.04	84	1280596	7.57	ug/L	0.00
Spiked Amount	5.000	Range	73 - 125		Recovery	=	151.40%#	
63) 1,2-Dichlorobenzene-d4			18.41	152	2475884	7.28	ug/L	0.00
Spiked Amount	5.000	Range	80 - 131		Recovery	=	145.60%#	
Target Compounds								Qvalue
2) Dichlorodifluoromethane			1.92	85	2668017	7.66	ug/L	97
3) Chloromethane			2.14	50	3309220	7.39	ug/L	98
5) Vinyl Chloride			2.25	62	3148866	7.62	ug/L	99
6) Bromomethane			2.65	94	1297557	7.76	ug/L	97
8) Chloroethane			2.82	64	1189069	7.17	ug/L	100
9) Trichlorofluoromethane			3.01	101	4651887	7.61	ug/L	99
11) 1,1-Dichloroethene			3.73	96	2459845	8.01	ug/L #	48
12) 1,1,2-Trichloro-1,2,2-trif			3.83	101	2620523	7.67	ug/L	93
13) Acetone			4.76	43	2458036	71.94	ug/L	97
14) Carbon Disulfide			3.72	76	8364777	7.90	ug/L	99
15) Methyl acetate			5.00	43	777876	7.06	ug/L	96
16) Methylene Chloride			4.66	84	2311119	7.31	ug/L	98
17) trans-1,2-Dichloroethene			4.92	96	2521990	7.60	ug/L	98
18) Methyl tert-Butyl Ether			5.14	73	3636581	7.91	ug/L	92
19) 1,1-Dichloroethane			5.88	63	4964910	7.65	ug/L	98
20) cis-1,2-Dichloroethene			6.72	96	2486146	7.74	ug/L	99
22) 2-Butanone			7.65	43	4067413	73.38	ug/L	94
23) Bromochloromethane			7.01	128	934809	7.59	ug/L	91
25) Chloroform			7.17	83	4566889	7.74	ug/L	99
27) 1,2-Dichloroethane			8.31	62	2537413	7.52	ug/L	99
29) 1,1,1-Trichloroethane			7.43	97	4044443	7.99	ug/L	96
30) Cyclohexane			6.99	56	5375813	8.44	ug/L	99
31) Carbon tetrachloride			7.32	117	3409484	8.26	ug/L	99

Data File: C:\MSDChem\1\DATA\A16943.D
Acq On : 11/24/08 13:35 Operator: SB
Sample : VSTD01016 Inst : A-5973
Misc : VSTD01016 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 24 15:32:01 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:31:45 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.00	78	10332538	7.98	ug/L		100
34) Trichloroethene	8.90	95	2753660	8.04	ug/L		97
35) Methylcyclohexane	8.87	83	4486962	8.47	ug/L		99
37) 1,2-Dichloropropane	9.69	63	2472102	7.76	ug/L		99
38) Bromodichloromethane	9.82	83	2724098	7.93	ug/L		100
39) cis-1,3-Dichloropropene	10.80	75	3425092	8.29	ug/L		100
40) 4-Methyl-2-Pentanone	11.81	43	9144593	89.02	ug/L		98
42) Toluene	11.16	91	10672200	8.06	ug/L		100
44) trans-1,3-Dichloropropene	11.85	75	2594771	8.28	ug/L		98
45) 1,1,2-Trichloroethane	12.09	97	1248022	7.72	ug/L		96
46) Tetrachloroethene	11.75	164	2080752	8.02	ug/L		94
48) 2-Hexanone	13.18	43	6076249	89.87	ug/L		98
49) Dibromochloromethane	12.35	129	1467400	8.10	ug/L		97
50) 1,2-Dibromoethane	12.69	107	1143107	7.78	ug/L	#	96
51) Chlorobenzene	13.58	112	6237110	7.84	ug/L		96
52) Ethylbenzene	13.67	91	11784682	8.21	ug/L		99
53) m,p-Xylene	13.93	106	4509509	8.45	ug/L		95
54) o-Xylene	14.64	106	4127742	8.46	ug/L		95
55) Styrene	14.74	104	5003957	8.51	ug/L	#	100
56) Isopropylbenzene	15.20	105	10794025	8.45	ug/L		98
58) 1,1,2,2-Tetrachloroethane	16.06	83	1145076	7.61	ug/L		98
60) Bromoform	14.73	173	729423	7.45	ug/L	#	96
61) 1,3-Dichlorobenzene	17.50	146	4161031	7.67	ug/L		96
62) 1,4-Dichlorobenzene	17.67	146	4233625	7.64	ug/L		97
64) 1,2-Dichlorobenzene	18.42	146	3521337	7.55	ug/L		97
65) 1,2-Dibromo-3-chloropropan	19.93	75	112092	8.16	ug/L	#	59
66) 1,2,4-Trichlorobenzene	21.24	180	1663056	8.39	ug/L	#	93
67) 1,2,3-Trichlorobenzene	22.21	180	1194286	7.26	ug/L		93

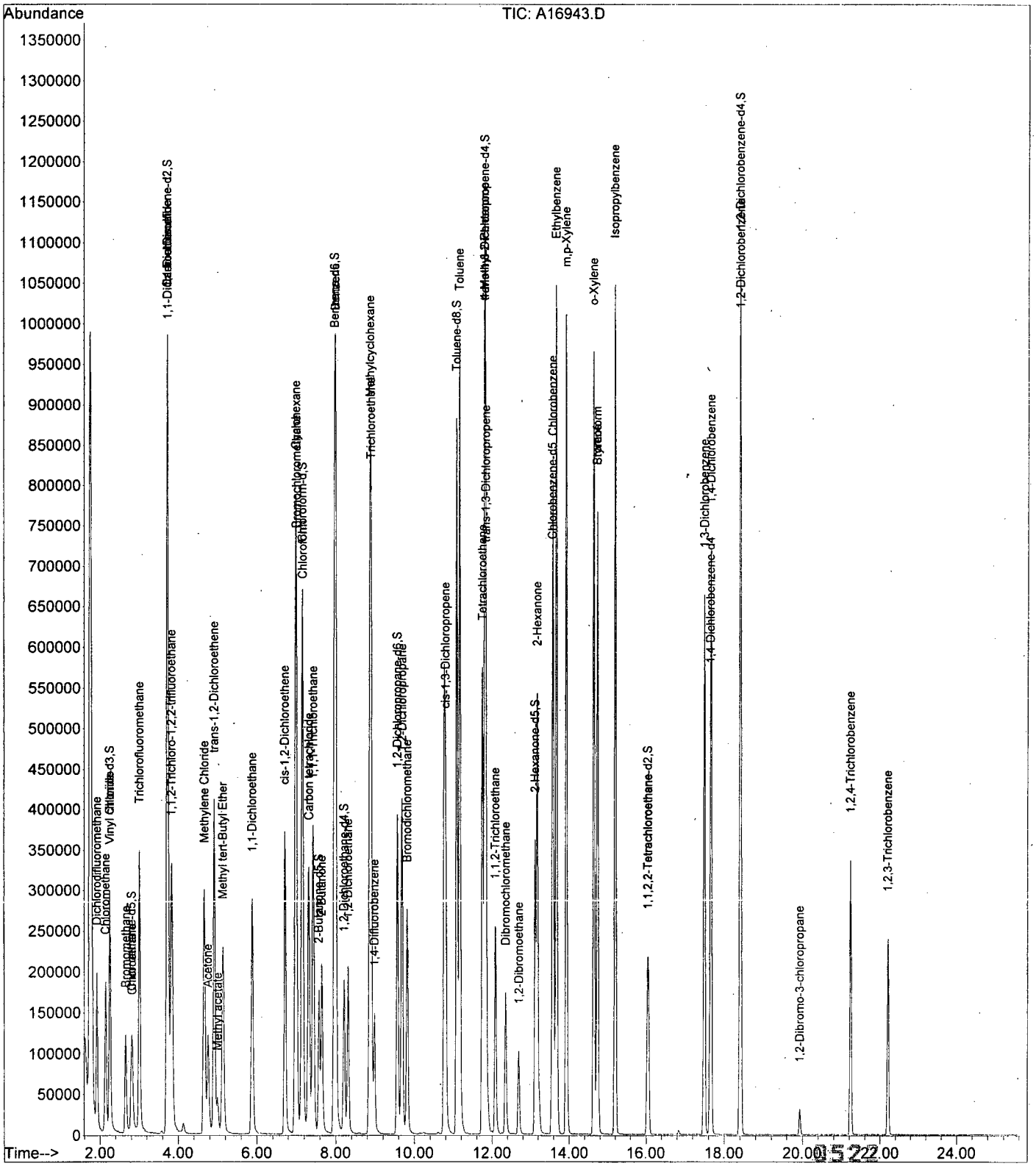
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0521

Quantitation Report (Not Reviewed)

Data File: C:\MSDChem\1\DATA\A16943.D
Acq On : 11/24/08 13:35 Operator: SB
Sample : VSTD01016 Inst : A-5973
Misc : VSTD01016 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 24 15:32:01 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:31:45 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A16944.D
Acq On : 11/24/08 14:08 Operator: SB
Sample : VSTD00116 Inst : A-5973
Misc : VSTD00116 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 15:33:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:28:09 2008
Response via : Initial Calibration

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 Init/Date: 11/26/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.99	114	1332072	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.56	117	1127073	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.64	152	415386	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	185880	1.10	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 22.00%#			
7) Chloroethane-d5	2.81	69	117672	1.16	ug/L	0.02
Spiked Amount 5.000	Range 71 - 131		Recovery = 23.20%#			
10) 1,1-Dichloroethene-d2	3.72	63	413107	0.96	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 19.20%#			
21) 2-Butanone-d5	7.60	46	367796	13.00	ug/L	0.02
Spiked Amount 50.000	Range 49 - 155		Recovery = 26.00%#			
24) Chloroform-d	7.15	84	492783	1.04	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 20.80%#			
26) 1,2-Dichloroethane-d4	8.21	65	196387	1.10	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 22.00%#			
32) Benzene-d6	7.97	84	805150	0.95	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 19.00%#			
36) 1,2-Dichloropropane-d6	9.57	67	253463	1.03	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 20.60%#			
41) Toluene-d8	11.09	98	708495	0.90	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 18.00%#			
43) trans-1,3-Dichloropropene-	11.83	79	203141	0.98	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 19.60%#			
47) 2-Hexanone-d5	13.17	63	112067m	26.27	ug/L	0.05
Spiked Amount 50.000	Range 28 - 135		Recovery = 52.54%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	123441	1.12	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 22.40%#			
63) 1,2-Dichlorobenzene-d4	18.41	152	206562	1.14	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 22.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	245353	1.01	ug/L	94
3) Chloromethane	2.14	50	328014	1.03	ug/L	99
5) Vinyl Chloride	2.25	62	280939	0.97	ug/L	97
6) Bromomethane	2.65	94	124974	1.06	ug/L	99
8) Chloroethane	2.83	64	144216	1.14	ug/L	90
9) Trichlorofluoromethane	3.02	101	416975	0.98	ug/L	99
11) 1,1-Dichloroethene	3.73	96	200538	0.95	ug/L #	41
12) 1,1,2-Trichloro-1,2,2-trif	3.83	101	233158	0.99	ug/L	93
13) Acetone	4.79	43	293896	13.55	ug/L	99
14) Carbon Disulfide	3.73	76	676532	0.93	ug/L	97
15) Methyl acetate	5.03	43	89997	1.69	ug/L	95
16) Methylene Chloride	4.66	84	232440	1.10	ug/L	98
17) trans-1,2-Dichloroethene	4.92	96	213973	0.95	ug/L	96
18) Methyl tert-Butyl Ether	5.17	73	305391	1.05	ug/L	94
19) 1,1-Dichloroethane	5.89	63	428936	0.98	ug/L	98
20) cis-1,2-Dichloroethene	6.72	96	209766	0.97	ug/L	99
22) 2-Butanone	7.67	43	434850	12.52	ug/L	94
23) Bromochloromethane	7.01	128	80100	0.97	ug/L	92
25) Chloroform	7.17	83	406580	1.00	ug/L	97
27) 1,2-Dichloroethane	8.32	62	230985	1.04	ug/L	96
29) 1,1,1-Trichloroethane	7.43	97	341591	0.93	ug/L	94
30) Cyclohexane	6.99	56	398665	0.88	ug/L	98
31) Carbon tetrachloride	7.32	117	274069	0.823	ug/L	97

Data File: C:\MSDChem\1\DATA\A16944.D
Acq On : 11/24/08 14:08 Operator: SB
Sample : VSTD00116 Inst : A-5973
Misc : VSTD00116 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 15:33:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:28:09 2008
Response via : Initial Calibration

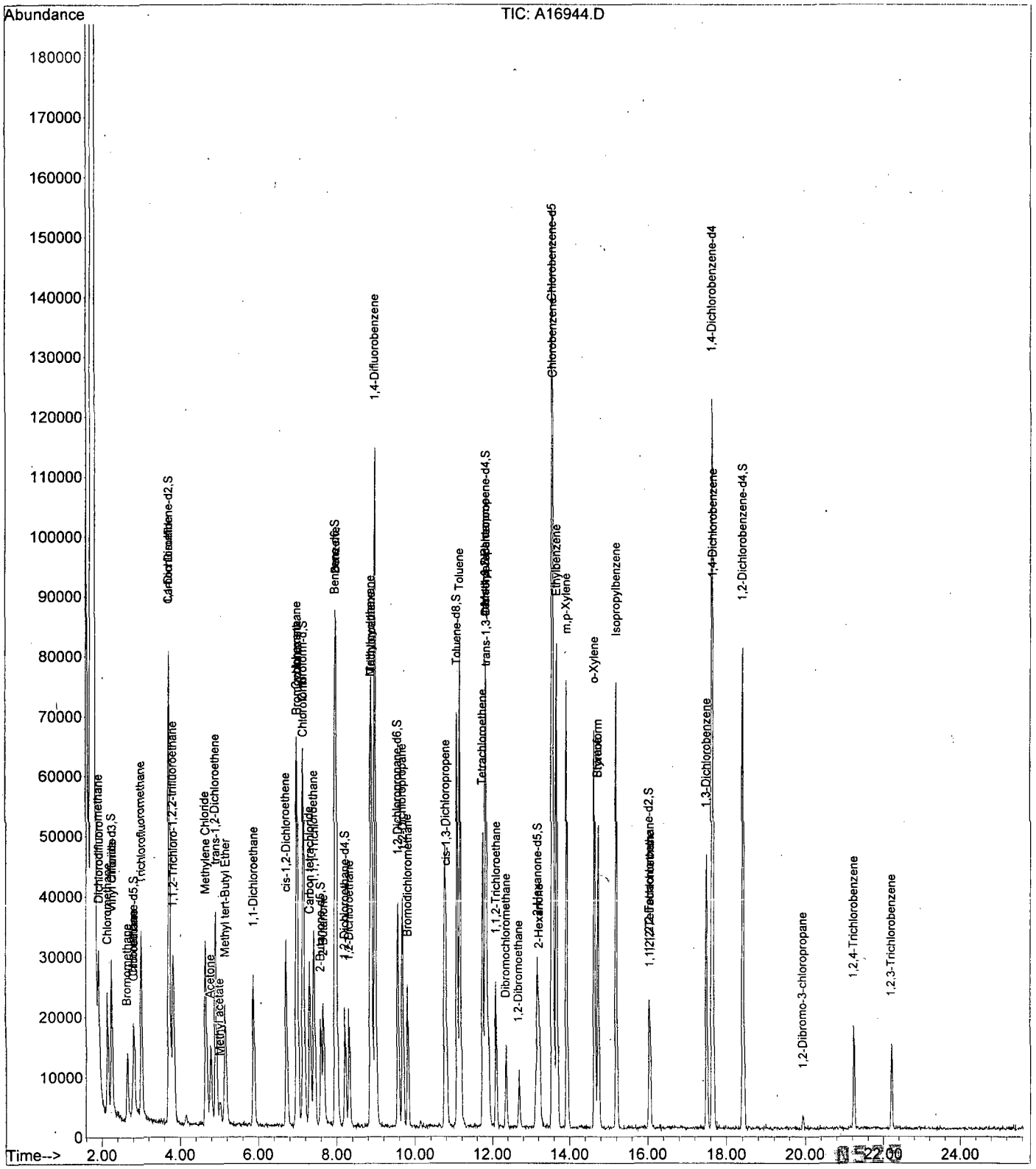
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.00	78	871044	0.93	ug/L		100
34) Trichloroethene	8.90	95	234598	0.95	ug/L		96
35) Methylcyclohexane	8.87	83	320236	0.86	ug/L		94
37) 1,2-Dichloropropane	9.69	63	220428	0.99	ug/L	#	98
38) Bromodichloromethane	9.82	83	229698	0.95	ug/L		97
39) cis-1,3-Dichloropropene	10.81	75	270906	0.97	ug/L		96
40) 4-Methyl-2-Pentanone	11.83	43	521144	8.46	ug/L	#	96
42) Toluene	11.17	91	865197	0.90	ug/L		97
44) trans-1,3-Dichloropropene	11.85	75	189937	0.90	ug/L		97
45) 1,1,2-Trichloroethane	12.09	97	112544	1.00	ug/L		95
46) Tetrachloroethene	11.75	164	182000	0.97	ug/L		92
48) 2-Hexanone	13.22	43	420358	10.97	ug/L	#	90
49) Dibromochloromethane	12.35	129	120602	0.98	ug/L		93
50) 1,2-Dibromoethane	12.69	107	93069	0.92	ug/L	#	86
51) Chlorobenzene	13.59	112	537900	0.95	ug/L		99
52) Ethylbenzene	13.68	91	894265	0.87	ug/L		98
53) m,p-Xylene	13.93	106	321210	0.85	ug/L		100
54) o-Xylene	14.64	106	290475	0.84	ug/L		95
55) Styrene	14.74	104	341797	0.84	ug/L	#	100
56) Isopropylbenzene	15.20	105	743004	0.83	ug/L		98
58) 1,1,2,2-Tetrachloroethane	16.06	83	107829	1.07	ug/L		97
60) Bromoform	14.73	173	55105	1.07	ug/L	#	94
61) 1,3-Dichlorobenzene	17.50	146	311169	1.04	ug/L		95
62) 1,4-Dichlorobenzene	17.67	146	330154	1.09	ug/L		98
64) 1,2-Dichlorobenzene	18.42	146	272037	1.07	ug/L		96
65) 1,2-Dibromo-3-chloropropan	19.93	75	8414	1.24	ug/L	#	69
66) 1,2,4-Trichlorobenzene	21.24	180	88947	0.77	ug/L		86
67) 1,2,3-Trichlorobenzene	22.21	180	86784	0.82	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0524

Data File: C:\MSDChem\1\DATA\A16944.D
Acq On : 11/24/08 14:08 Operator: SB
Sample : VSTD00116 Inst : A-5973
Misc : VSTD00116 25ML
ALS Vial : 6 Sample Multiplier: 1

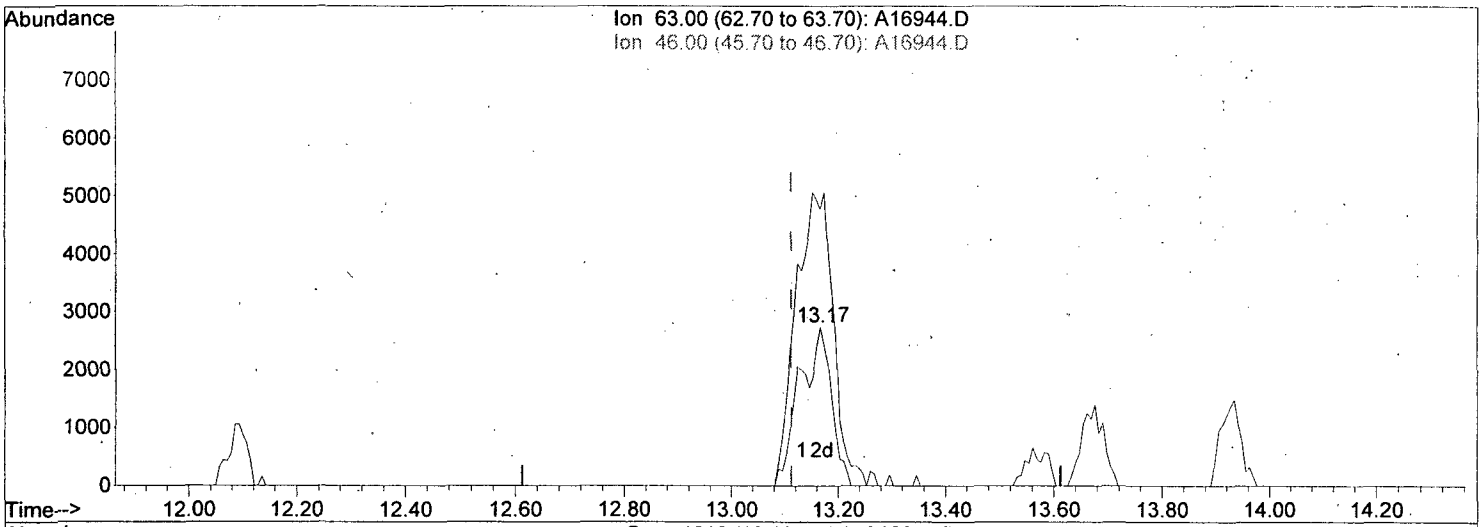
Quant Time: Nov 24 15:33:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:28:09 2008
Response via : Initial Calibration

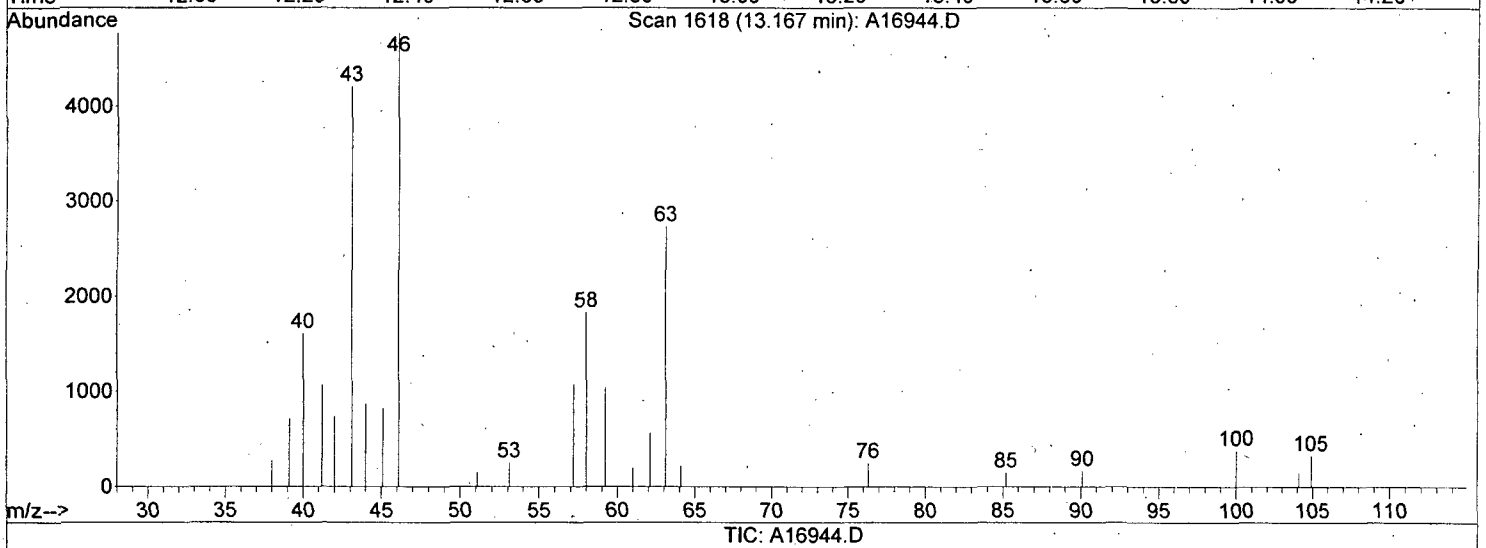


Data File: C:\MSDChem\1\DATA\A16944.D
Acq On : 11/24/08 14:08 Operator: SB
Sample : VSTD00116 Inst : A-5973
Misc : VSTD00116 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 24 15:33:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 15:28:09 2008
Response via : Initial Calibration

11/26/08





TIC: A16944.D

(47) 2-Hexanone-d5 (S)

13.167min (+0.054) 26.27ug/L m

response 112067

Ion	Exp%	Act%
63.00	100	100
46.00	223.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

0526

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A16945.D
Acq On : 11/24/08 14:41 Operator: SB
Sample : VSTD0.516 Inst : A-5973
Misc : VSTD0.516 25ML
ALS Vial : 7 Sample Multiplier: 1

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 Initials: 11/26/08

Quant Time: Nov 24 15:30:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 11:14:17 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.99	114	1338775	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.56	117	1082940	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.64	152	393316	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	94408	0.56	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 11.20%#			
7) Chloroethane-d5	2.80	69	64317	0.63	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 12.60%#			
10) 1,1-Dichloroethene-d2	3.72	63	220360	0.51	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 10.20%#			
21) 2-Butanone-d5	7.61	46	145638	5.23	ug/L	0.03
Spiked Amount 50.000	Range 49 - 155		Recovery = 10.46%#			
24) Chloroform-d	7.15	84	283500	0.59	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 11.80%#			
26) 1,2-Dichloroethane-d4	8.21	65	99344	0.55	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 11.00%#			
32) Benzene-d6	7.97	84	419861	0.52	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 10.40%#			
36) 1,2-Dichloropropane-d6	9.57	67	124468	0.52	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 10.40%#			
41) Toluene-d8	11.09	98	367056	0.49	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 9.80%#			
43) trans-1,3-Dichloropropene-	11.83	79	86488	0.44	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 8.80%#			
47) 2-Hexanone-d5	13.16	63	33282	5.12	ug/L	0.05
Spiked Amount 50.000	Range 28 - 135		Recovery = 10.24%#			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	55077	0.52	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 10.40%#			
63) 1,2-Dichlorobenzene-d4	18.41	152	97492	0.57	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 11.40%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	129025	0.51	ug/L	97
3) Chloromethane	2.14	50	184501	0.56	ug/L	99
5) Vinyl Chloride	2.25	62	161170	0.55	ug/L	99
6) Bromomethane	2.65	94	65095	0.54	ug/L	97
8) Chloroethane	2.82	64	79943	0.63	ug/L	98
9) Trichlorofluoromethane	3.02	101	222603	0.51	ug/L	98
11) 1,1-Dichloroethene	3.73	96	107315	0.50	ug/L #	44
12) 1,1,2-Trichloro-1,2,2-trif	3.84	101	123055	0.50	ug/L #	80
13) Acetone	4.81	43	122329	5.57	ug/L	99
14) Carbon Disulfide	3.73	76	370868	0.50	ug/L	98
15) Methyl acetate	5.05	43	40039m	0.57	ug/L	
16) Methylene Chloride	4.66	84	131122	0.61	ug/L	96
17) trans-1,2-Dichloroethene	4.92	96	121868	0.53	ug/L	93
18) Methyl tert-Butyl Ether	5.18	73	155848	0.53	ug/L #	84
19) 1,1-Dichloroethane	5.88	63	240117	0.54	ug/L	99
20) cis-1,2-Dichloroethene	6.72	96	114103	0.52	ug/L	97
22) 2-Butanone	7.68	43	201346	5.91	ug/L	92
23) Bromochloromethane	7.01	128	45881	0.55	ug/L	94
25) Chloroform	7.17	83	219586	0.53	ug/L	97
27) 1,2-Dichloroethane	8.31	62	126841	0.57	ug/L #	93
29) 1,1,1-Trichloroethane	7.43	97	189456	0.54	ug/L	93
30) Cyclohexane	7.00	56	193215	0.44	ug/L	94
31) Carbon tetrachloride	7.33	117	159304	0.53	ug/L	98

11/26

Data File: C:\MSDChem\1\DATA\A16945.D
Acq On : 11/24/08 14:41 Operator: SB
Sample : VSTD0.516 Inst : A-5973
Misc : VSTD0.516 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 24 15:30:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 11:14:17 2008
Response via : Initial Calibration

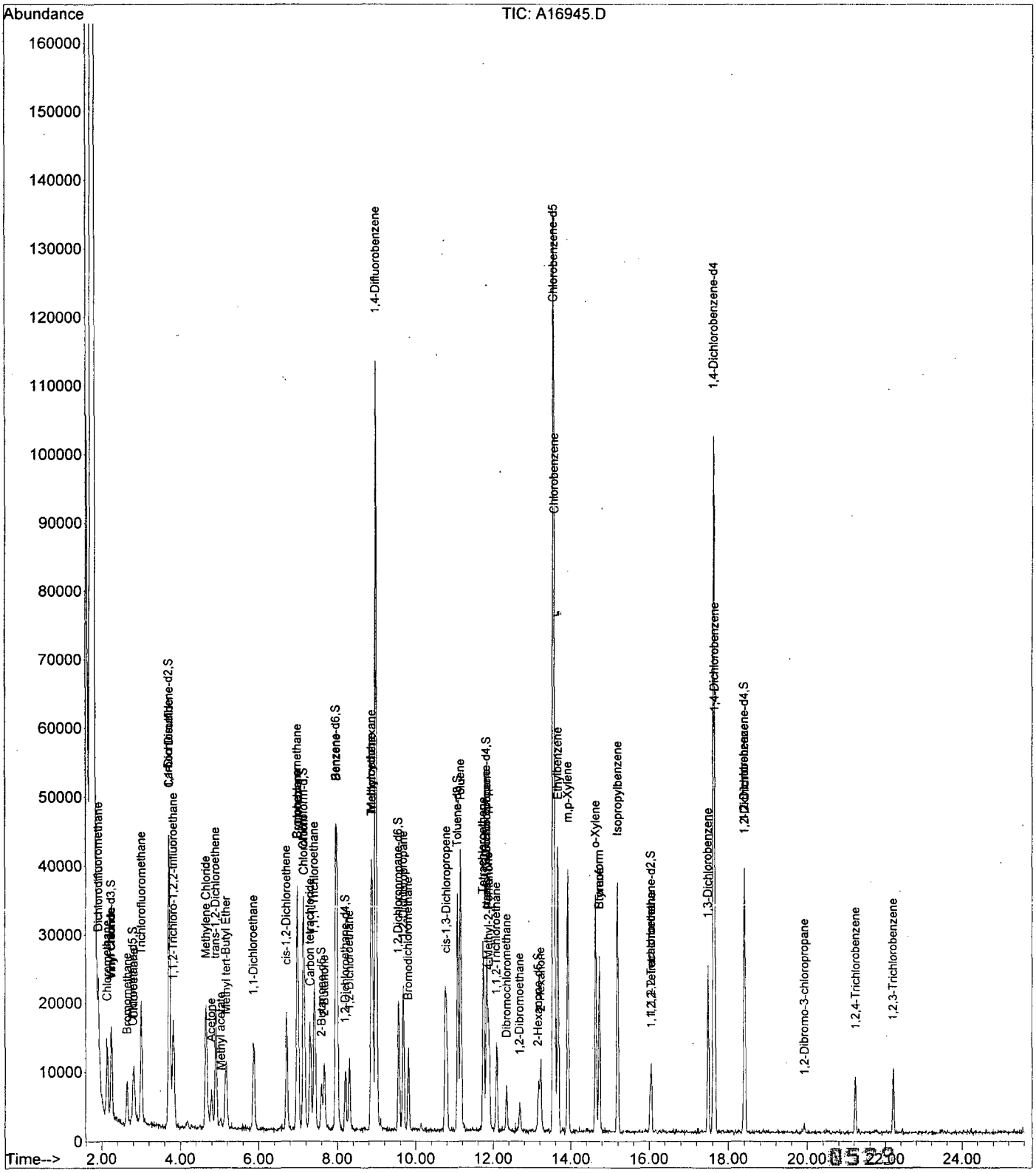
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.00	78	465825	0.51	ug/L		100
34) Trichloroethene	8.90	95	118181	0.48	ug/L		89
35) Methylcyclohexane	8.87	83	158734	0.43	ug/L		95
37) 1,2-Dichloropropane	9.70	63	120285	0.56	ug/L		99
38) Bromodichloromethane	9.82	83	120759	0.52	ug/L		98
39) cis-1,3-Dichloropropene	10.80	75	127338	0.47	ug/L		93
40) 4-Methyl-2-Pentanone	11.89	43	294912m	4.98	ug/L		
42) Toluene	11.17	91	465664	0.50	ug/L		98
44) trans-1,3-Dichloropropene	11.85	75	92158	0.45	ug/L		99
45) 1,1,2-Trichloroethane	12.09	97	60538	0.56	ug/L		94
46) Tetrachloroethene	11.75	164	94870	0.52	ug/L		96
48) 2-Hexanone	13.24	43	128550	3.47	ug/L		96
49) Dibromochloromethane	12.35	129	56567	0.47	ug/L		90
50) 1,2-Dibromoethane	12.69	107	53507	0.54	ug/L	#	99
51) Chlorobenzene	13.59	112	291591	0.53	ug/L		98
52) Ethylbenzene	13.68	91	480249	0.48	ug/L		99
53) m,p-Xylene	13.93	106	165316	0.45	ug/L		99
54) o-Xylene	14.64	106	149532	0.45	ug/L		90
55) Styrene	14.74	104	157711	0.40	ug/L	#	100
56) Isopropylbenzene	15.20	105	362326	0.41	ug/L		95
58) 1,1,2,2-Tetrachloroethane	16.07	83	53833	0.56	ug/L	#	93
60) Bromoform	14.74	173	28165	0.57	ug/L	#	91
61) 1,3-Dichlorobenzene	17.50	146	160120	0.56	ug/L		92
62) 1,4-Dichlorobenzene	17.67	146	160093	0.54	ug/L		97
64) 1,2-Dichlorobenzene	18.43	146	142644	0.58	ug/L		92
65) 1,2-Dibromo-3-chloropropan	19.93	75	1860	0.31	ug/L	#	1
66) 1,2,4-Trichlorobenzene	21.24	180	41483	0.35	ug/L	#	92
67) 1,2,3-Trichlorobenzene	22.21	180	53309	0.50	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0528

Data File: C:\MSDChem\1\DATA\A16945.D
Acq On : 11/24/08 14:41 Operator: SB
Sample : VSTD0.516 Inst : A-5973
Misc : VSTD0.516 25ML
ALS Vial : 7 Sample Multiplier: 1

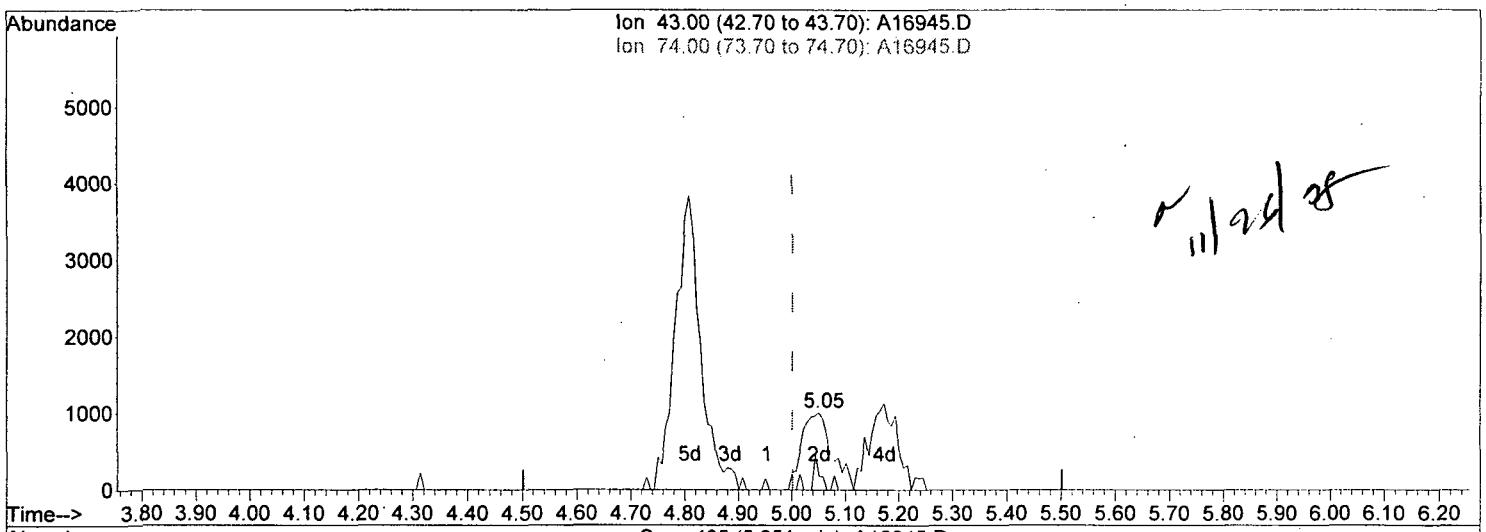
Quant Time: Nov 24 15:30:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 11:14:17 2008
Response via : Initial Calibration

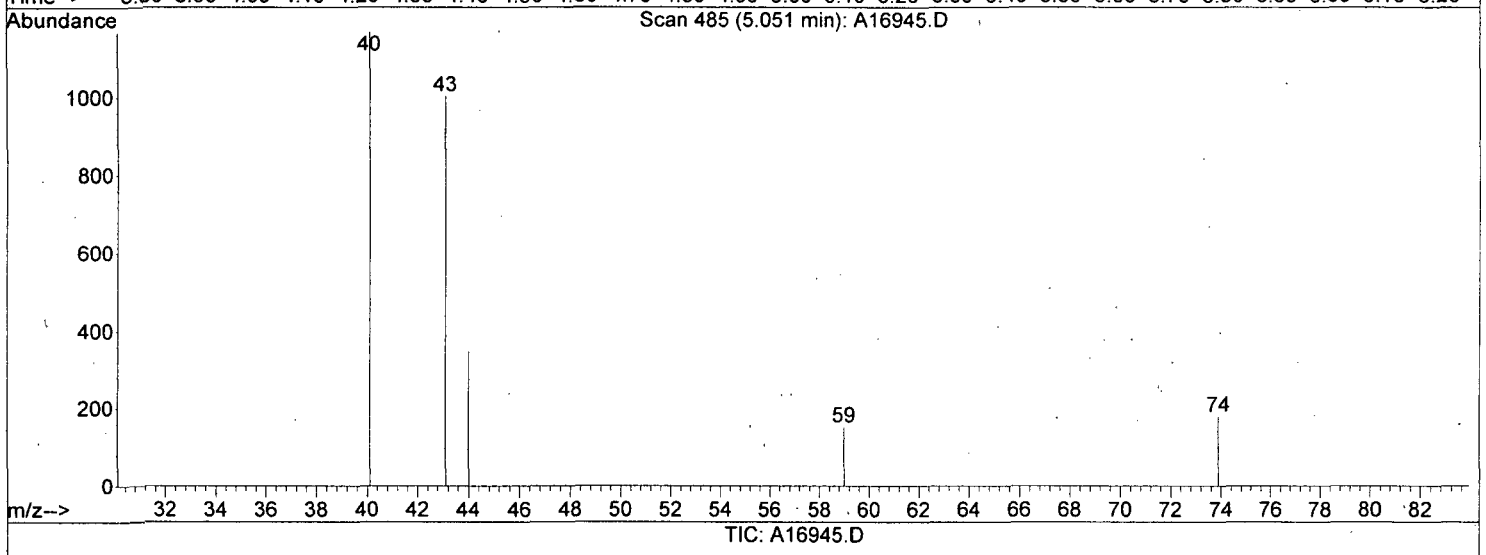


Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\A16945.D
Acq On : 11/24/08 14:41 Operator: SB
Sample : VSTD0.516 Inst : A-5973
Misc : VSTD0.516 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 24 15:30:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 11:14:17 2008
Response via : Initial Calibration





TIC: A16945.D

(15) Methyl acetate

5.051min (+0.049) 0.57ug/L m

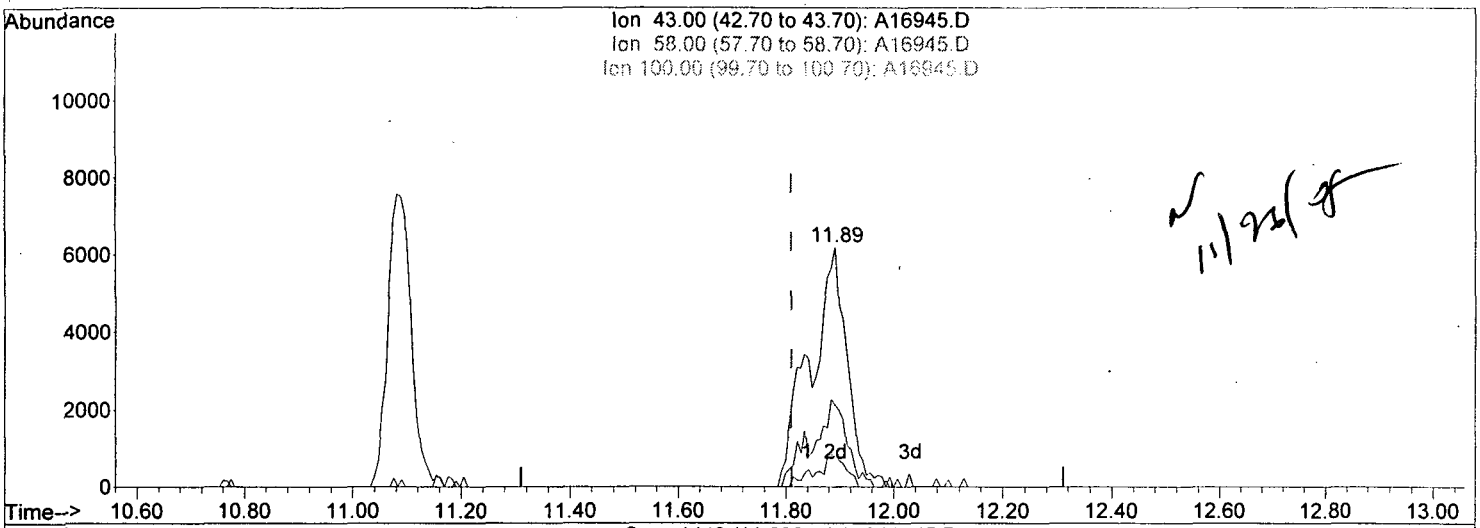
response 40039

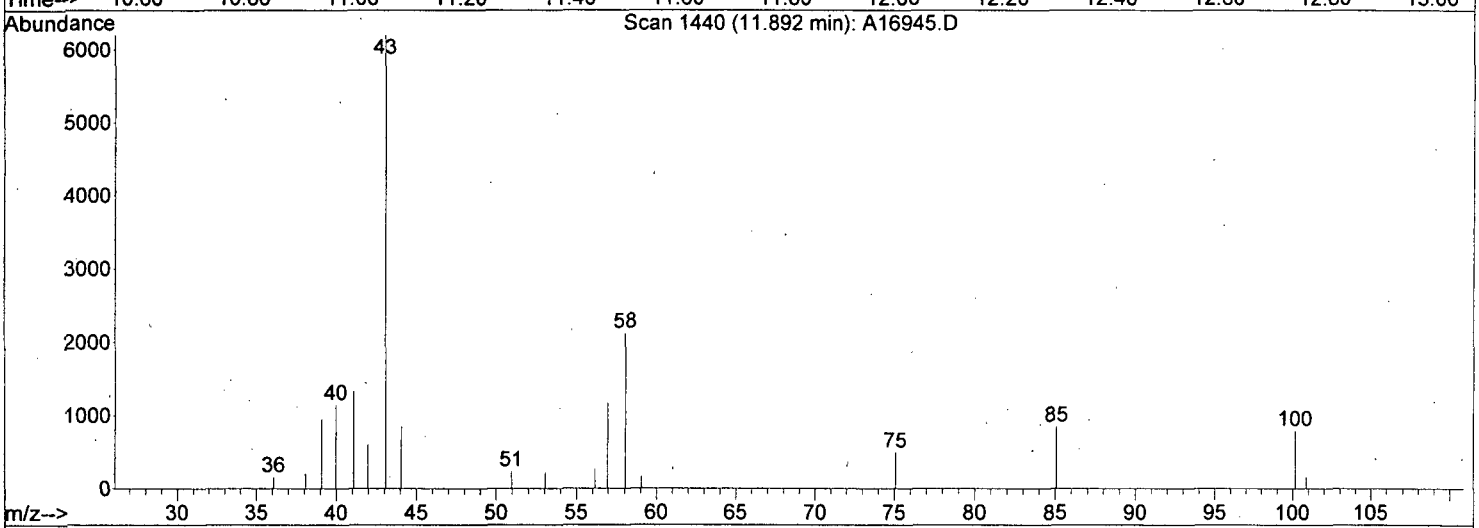
Ion	Exp%	Act%
43.00	100	100
74.00	18.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

0538

Data File: C:\MSDChem\1\DATA\A16945.D
Acq On : 11/24/08 14:41 Operator: SB
Sample : VSTD0.516 Inst : A-5973
Misc : VSTD0.516 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 24 15:30:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Mon Nov 24 11:14:17 2008
Response via : Initial Calibration





TIC: A16945.D

(40) 4-Methyl-2-Pentanone

11.892min (+0.081) 4.98ug/L m

response 294912

Ion	Exp%	Act%
43.00	100	100
58.00	34.60	0.00#
100.00	9.30	0.61#
0.00	0.00	0.00

0531

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date(s): 11/25/2008 11/25/2008

Heated Purge: (Y/N) N Calibration Time(s): 1624 1940

Purge Volume: 25.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____ RRF 0.5 = B19495 RRF 1.0 = B19494

RRF 5.0 = B19496 RRF 10.0 = B19491 RRF 20.0 = B19490

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10.0	RRF 20.0	$\overline{\text{RRF}}$	% RSD
Dichlorodifluoromethane	0.0140	0.0178	0.0226	0.0257	0.0177	0.0196	23.5
Chloromethane	0.6901	0.6990	0.6155	0.7297	0.4386	0.6346	18.5
Vinyl chloride	0.8847	0.9340	0.8271	0.9378	0.5684	0.8304	18.4
Bromomethane	0.3303	0.3150	0.2384	0.2522	0.1341	0.2540	30.6
Chloroethane	0.3554	0.3261	0.2781	0.2925	0.1453	0.2795	28.9
Trichlorofluoromethane	0.6702	0.7041	0.6177	0.7010	0.3874	0.6161	21.5
1,1-Dichloroethene	0.6076	0.6594	0.5642	0.6580	0.3925	0.5763	19.1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.6515	0.6997	0.6062	0.7119	0.4302	0.6199	18.4
Acetone	0.0869	0.0843	0.0760	0.0595	0.0588	0.0731	18.3
Carbon disulfide	1.7864	1.8605	1.6735	1.9121	1.1273	1.6720	19.0
Methyl acetate	0.2460	0.2300	0.2205	0.2089	0.1379	0.2087	20.0
Methylene chloride	0.7505	0.6836	0.5784	0.6397	0.3823	0.6069	23.1
trans-1,2-Dichloroethene	0.5821	0.6449	0.5584	0.6765	0.4116	0.5747	17.9
Methyl tert-butyl ether	0.7912	0.8525	0.8723	0.9848	0.6155	0.8233	16.5
1,1-Dichloroethane	1.2120	1.3023	1.1650	1.3409	0.8037	1.1648	18.3
cis-1,2-Dichloroethene	0.5858	0.6252	0.5681	0.7069	0.4248	0.5822	17.7
2-Butanone	0.1211	0.1189	0.1230	0.0998	0.1018	0.1129	9.9
Bromochloromethane	0.2459	0.2773	0.2496	0.2860	0.1716	0.2461	18.3
Chloroform	1.1563	1.2014	1.0806	1.2121	0.7266	1.0754	18.8
1,1,1-Trichloroethane	1.1304	1.1936	1.0812	1.2912	0.7720	1.0937	17.9
Cyclohexane	1.1856	1.3811	1.3746	1.7050	1.0418	1.3376	18.6
Carbon tetrachloride	0.9098	1.0415	0.9229	1.0983	0.6647	0.9274	18.0
Benzene	2.9256	3.1896	2.9929	3.4668	2.0644	2.9279	18.0
1,2-Dichloroethane	0.6161	0.7136	0.6547	0.7384	0.4412	0.6328	18.6
1,4-Dioxane							
Trichloroethene	0.7130	0.7871	0.7982	0.8948	0.5340	0.7454	18.1
Methylcyclohexane	0.9724	1.3165	1.2454	1.6125	0.9630	1.2220	22.1

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date(s): 11/25/2008 11/25/2008

Heated Purge: (Y/N) N Calibration Time(s): 1624 1940

Purge Volume: 25.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____ RRF 0.5 = B19495 RRF 1.0 = B19494

RRF 5.0 = B19496 RRF 10.0 = B19491 RRF 20.0 = B19490

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10.0	RRF 20.0	$\overline{\text{RRF}}$	% RSD
1,2-Dichloropropane	0.7042	0.7897	0.7212	0.8530	0.5183	0.7173	17.6
Bromodichloromethane	0.7994	0.8893	0.8431	0.9664	0.5840	0.8164	17.6
cis-1,3-Dichloropropene	0.8631	0.9945	1.0629	1.2396	0.7730	0.9866	18.3
4-Methyl-2-pentanone	0.3440	0.3388	0.3601	0.2835	0.2692	0.3191	12.6
Toluene	2.7836	3.2010	3.1040	3.7349	2.2399	3.0127	18.3
trans-1,3-Dichloropropene	0.7955	0.9003	0.8602	0.9937	0.6063	0.8312	17.4
1,1,2-Trichloroethane	0.4217	0.4651	0.4325	0.4875	0.2937	0.4201	17.9
Tetrachloroethene	0.6907	0.7196	0.6346	0.7802	0.4625	0.6575	18.4
2-Hexanone	0.1945	0.2103	0.2497	0.2010	0.1918	0.2095	11.3
Dibromochloromethane	0.4727	0.5060	0.5074	0.5857	0.3580	0.4860	17.0
1,2-Dibromoethane	0.3511	0.3723	0.3751	0.4437	0.2700	0.3624	17.2
Chlorobenzene	1.8262	2.0176	1.9237	2.2941	1.3823	1.8888	17.6
Ethylbenzene	2.9764	3.4183	3.4355	4.2643	2.5702	3.3329	18.9
o-Xylene	0.8829	1.0921	1.1613	1.5199	0.9132	1.1139	22.9
m,p-Xylene	1.0665	1.2713	1.2956	1.6373	0.9942	1.2530	20.0
Styrene	1.3072	1.6504	1.7991	2.2610	1.3831	1.6802	22.7
Bromoform	0.5786	0.6723	0.6642	0.7209	0.4259	0.6124	19.0
Isopropylbenzene	2.4421	3.0170	3.1956	4.1453	2.4875	3.0575	22.6
1,1,2,2-Tetrachloroethane	0.4455	0.4706	0.4607	0.5038	0.3044	0.4370	17.7
1,3-Dichlorobenzene	2.7748	3.0274	2.8027	3.4882	2.0214	2.8229	18.8
1,4-Dichlorobenzene	3.2168	3.4025	3.0585	3.6580	2.0813	3.0834	19.6
1,2-Dichlorobenzene	2.5281	2.7345	2.5751	3.0494	1.7279	2.5230	19.4
1,2-Dibromo-3-chloropropane	0.1352	0.1350	0.1334	0.1372	0.0784	0.1238	20.5
1,2,4-Trichlorobenzene	0.9010	1.0346	0.9902	1.5259	0.9081	1.0720	24.2
1,2,3-Trichlorobenzene	0.3938	0.5011	0.4263	0.7414	0.4695	0.5064	27.2

6C - FORM VI VOA-3

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date(s): 11/25/2008 11/25/2008

Heated Purge: (Y/N) N Calibration Time(s): 1624 1940

Purge Volume: 25.0 (mL)

GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

LAB FILE ID: _____ RRF 0.5 = B19495 RRF 1.0 = B19494

RRF 5.0 = B19496 RRF 10.0 = B19491 RRF 20.0 = B19490

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10.0	RRF 20.0	$\overline{RRF}$	% RSD
Vinyl chloride-d3	0.8724	0.8227	0.7000	0.6034	0.5584	0.7114	19.1
Chloroethane-d5	0.4524	0.4157	0.3096	0.2459	0.1890	0.3225	34.5
1,1-Dichloroethene-d2	1.6789	1.6812	1.4215	1.2884	1.0783	1.4297	18.1
2-Butanone-d5	0.0666	0.0710	0.0896	0.0803	0.0662	0.0747	13.5
Chloroform-d	1.6521	1.6999	1.4150	1.2022	1.0972	1.4133	18.8
1,2-Dichloroethane-d4	0.7298	0.8079	0.6750	0.5253	0.4973	0.6471	20.6
Benzene-d6	3.5947	3.7301	3.2067	2.8135	2.6286	3.1947	15.0
1,2-Dichloropropane-d6	1.1040	1.1253	0.9656	0.8409	0.7979	0.9667	15.4
Toluene-d8	3.0822	3.1906	2.9900	2.6746	2.5173	2.8909	9.8
trans-1,3-Dichloropropene-d4	0.9735	0.9396	0.9524	0.8190	0.7728	0.8915	10.0
2-Hexanone-d5	0.0390	0.0552	0.0786	0.0734	0.0585	0.0609	25.8
1,4-Dioxane-d8							
1,1,2,2-Tetrachloroethane-d2	0.6410	0.6016	0.5526	0.4536	0.4227	0.5343	17.6
1,2-Dichlorobenzene-d4	2.2048	2.2983	1.9530	1.7428	1.5688	1.9535	15.7

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Response Factor Report B-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 13:35:14 2008
Response Via : Initial Calibration

Calibration Files
3 =B19496.D 1 =B19495.D 2 =B19494.D
4 =B19491.D 5 =B19490.D

		Compound	3	1	2	4	5	Avg	%RSD
1)		1,4-Difluorobenzene	ISTD						
2)		Dichlorodifluoromet	0.023	0.014	0.018	0.026	0.018	0.020	23.58
3)		Chloromethane	0.616	0.690	0.699	0.730	0.439	0.635	18.49
4)	S	Vinyl chloride-d3	0.700	0.872	0.823	0.603	0.558	0.711	19.05
5)		Vinyl Chloride	0.827	0.885	0.934	0.938	0.568	0.830	18.45
6)		Bromomethane	0.238	0.330	0.315	0.252	0.134	0.254	30.60
7)	S	Chloroethane-d5	0.310	0.452	0.416	0.246	0.189	0.323	34.46
8)		Chloroethane	0.278	0.355	0.326	0.293	0.145	0.279	28.90
9)		Trichlorofluorometh	0.618	0.670	0.704	0.701	0.387	0.616	21.50
10)	S	1,1-Dichloroethene-	1.421	1.679	1.681	1.288	1.078	1.430	18.13
11)		1,1-Dichloroethene	0.564	0.608	0.659	0.658	0.392	0.576	19.11
12)		1,1,2-Trichloro-1,2	0.606	0.652	0.700	0.712	0.430	0.620	18.39
13)		Acetone	0.076	0.087	0.084	0.059	0.059	0.073	18.28
14)		Carbon Disulfide	1.673	1.786	1.861	1.912	1.127	1.672	18.98
15)		Methyl acetate	0.220	0.246	0.230	0.209	0.138	0.209	20.05
16)		Methylene Chloride	0.578	0.751	0.684	0.640	0.382	0.607	23.13
17)		trans-1,2-Dichloroe	0.558	0.582	0.645	0.676	0.412	0.575	17.87
18)		Methyl tert-Butyl E	0.872	0.791	0.853	0.985	0.615	0.823	16.47
19)		1,1-Dichloroethane	1.165	1.212	1.302	1.341	0.804	1.165	18.34
20)		cis-1,2-Dichloroeth	0.568	0.586	0.625	0.707	0.425	0.582	17.68
21)	S	2-Butanone-d5	0.090	0.067	0.071	0.080	0.066	0.075	13.47
22)		2-Butanone	0.123	0.121	0.119	0.100	0.102	0.113	9.91
23)		Bromochloromethane	0.250	0.246	0.277	0.286	0.172	0.246	18.32
24)	S	Chloroform-d	1.415	1.652	1.700	1.202	1.097	1.413	18.84
25)		Chloroform	1.081	1.156	1.201	1.212	0.727	1.075	18.76
26)	S	1,2-Dichloroethane-	0.675	0.730	0.808	0.525	0.497	0.647	20.55
27)		1,2-Dichloroethane	0.655	0.616	0.714	0.738	0.441	0.633	18.55
28)		Chlorobenzene-d5	ISTD						
29)		1,1,1-Trichloroetha	1.081	1.130	1.194	1.291	0.772	1.094	17.94
30)		Cyclohexane	1.375	1.186	1.381	1.705	1.042	1.338	18.65
31)		Carbon tetrachlorid	0.923	0.910	1.041	1.098	0.665	0.927	18.01
32)	S	Benzene-d6	3.207	3.595	3.730	2.813	2.629	3.195	14.95
33)		Benzene	2.993	2.926	3.190	3.467	2.064	2.928	17.98
34)		Trichloroethene	0.798	0.713	0.787	0.895	0.534	0.745	18.07
35)		Methylcyclohexane	1.245	0.972	1.316	1.612	0.963	1.222	22.09
36)	S	1,2-Dichloropropane	0.966	1.104	1.125	0.841	0.798	0.967	15.37
37)		1,2-Dichloropropane	0.721	0.704	0.790	0.853	0.518	0.717	17.56
38)		Bromodichloromethan	0.843	0.799	0.889	0.966	0.584	0.816	17.62
39)		cis-1,3-Dichloropro	1.063	0.863	0.995	1.240	0.773	0.987	18.33
40)		4-Methyl-2-Pentanon	0.360	0.344	0.339	0.284	0.269	0.319	12.58
41)	S	Toluene-d8	2.990	3.082	3.191	2.675	2.517	2.891	9.82
42)		Toluene	3.104	2.784	3.201	3.735	2.240	3.013	18.29
43)	S	trans-1,3-Dichlorop	0.952	0.973	0.940	0.819	0.773	0.891	10.05
44)		trans-1,3-Dichlorop	0.860	0.795	0.900	0.994	0.606	0.831	17.42
45)		1,1,2-Trichloroetha	0.432	0.422	0.465	0.487	0.294	0.420	17.93
46)		Tetrachloroethene	0.635	0.691	0.720	0.780	0.463	0.658	18.40
47)	S	2-Hexanone-d5	0.079	0.039	0.055	0.073	0.058	0.061	25.76
48)		2-Hexanone	0.250	0.194	0.210	0.201	0.192	0.209	11.27
49)		Dibromochloromethan	0.507	0.473	0.506	0.586	0.358	0.486	17.02
50)		1,2-Dibromoethane	0.375	0.351	0.372	0.444	0.270	0.362	17.20
51)		Chlorobenzene	1.924	1.826	2.018	2.294	1.382	1.889	17.61
52)		Ethylbenzene	3.436	2.976	3.418	4.264	2.570	3.333	18.94
53)		m,p-Xylene	1.296	1.067	1.271	1.637	0.994	1.253	20.01
54)		o-Xylene	1.161	0.883	1.092	1.520	0.913	1.114	22.94
55)		Styrene	1.799	1.307	1.650	2.261	1.383	1.680	22.66
56)		Isopropylbenzene	3.196	2.442	3.017	4.145	2.487	3.057	22.59

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 13:35:14 2008
Response Via : Initial Calibration

Calibration Files
3 =B19496.D 1 =B19495.D 2 =B19494.D
4 =B19491.D 5 =B19490.D

		Compound	3	1	2	4	5	Avg	%RSD
57)	S	1,1,2,2-Tetrachloro	0.553	0.641	0.602	0.454	0.423	0.534	17.56
58)		1,1,2,2-Tetrachloro	0.461	0.445	0.471	0.504	0.304	0.437	17.65
59)		1,4-Dichlorobenzene-d	ISTD						
60)		Bromoform	0.664	0.579	0.672	0.721	0.426	0.612	18.97
61)		1,3-Dichlorobenzene	2.803	2.775	3.027	3.488	2.021	2.823	18.82
62)		1,4-Dichlorobenzene	3.059	3.217	3.402	3.658	2.081	3.083	19.56
63)	S	1,2-Dichlorobenzene	1.953	2.205	2.298	1.743	1.569	1.954	15.66
64)		1,2-Dichlorobenzene	2.575	2.528	2.734	3.049	1.728	2.523	19.38
65)		1,2-Dibromo-3-chlor	0.133	0.135	0.135	0.137	0.078	0.124	20.54
66)		1,2,4-Trichlorobenz	0.990	0.901	1.035	1.526	0.908	1.072	24.25
67)		1,2,3-Trichlorobenz	0.426	0.394	0.501	0.741	0.469	0.506	27.17

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19490.D
Acq On : 11/25/08 16:24
Sample : VSTD02088
Misc : VSTD02088 25ML
ALS Vial : 3 Sample Multiplier: 1

Operator: SB
Inst : B-5973

Quant Time: Nov 25 21:48:29 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:20:27 2008
Response via : Initial Calibration

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	6928472	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	5943756	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	3012500	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	15476443	15.70	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 314.00%#			
7) Chloroethane-d5	2.38	69	5238420	11.72	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 234.40%#			
10) 1,1-Dichloroethene-d2	3.12	63	29883637	15.08	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 301.60%#			
21) 2-Butanone-d5	6.65	46	18335205	177.12	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 354.24%#			
24) Chloroform-d	6.25	84	30408541	15.53	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 310.60%#			
26) 1,2-Dichloroethane-d4	7.27	65	13783314	15.64	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 312.80%#			
32) Benzene-d6	7.05	84	62495782	16.46	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 329.20%#			
36) 1,2-Dichloropropane-d6	8.63	67	18969902	16.51	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 330.20%#			
41) Toluene-d8	10.17	98	59848772	17.42	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 348.40%#			
43) trans-1,3-Dichloropropene-	10.89	79	18374185	17.34	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 346.80%#			
47) 2-Hexanone-d5	12.19	63	13903697	191.96	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 383.92%#			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	10049480	15.82	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 316.40%#			
63) 1,2-Dichlorobenzene-d4	17.47	152	18904645	16.06	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 321.20%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.71	85	490583	18.10	ug/L	95
3) Chloromethane	1.87	50	12153976	13.82	ug/L	98
5) Vinyl Chloride	1.96	62	15752462	13.69	ug/L	100
6) Bromomethane	2.27	94	3717036	10.56	ug/L	96
8) Chloroethane	2.40	64	4027593	10.40	ug/L	100
9) Trichlorofluoromethane	2.56	101	10736916	12.58	ug/L	99
11) 1,1-Dichloroethene	3.13	96	10877065	13.67	ug/L	97
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	11921914	13.88	ug/L	100
13) Acetone	3.96	43	16308627	161.52	ug/L	96
14) Carbon Disulfide	3.14	76	31241435	13.45	ug/L	100
15) Methyl acetate	4.20	43	3820560m	13.21	ug/L	
16) Methylene Chloride	3.89	84	10596192	12.60	ug/L	99
17) trans-1,2-Dichloroethene	4.14	96	11407583	14.32	ug/L	100
18) Methyl tert-Butyl Ether	4.35	73	17057083	14.95	ug/L	97
19) 1,1-Dichloroethane	5.02	63	22272349	13.80	ug/L	100
20) cis-1,2-Dichloroethene	5.83	96	11773987	14.60	ug/L	99
22) 2-Butanone	6.72	43	28212924	180.49	ug/L	99
23) Bromochloromethane	6.11	128	4754860	13.95	ug/L	98
25) Chloroform	6.27	83	20135662	13.51	ug/L	98
27) 1,2-Dichloroethane	7.37	62	12228011	13.95	ug/L	100
29) 1,1,1-Trichloroethane	6.54	97	18353496	14.12	ug/L	99
30) Cyclohexane	6.14	56	24768432	15.60	ug/L	100
31) Carbon tetrachloride	6.45	117	15802935	14.38	ug/L	100

8597

Data File: C:\MSDChem\1\DATA\B19490.D
Acq On : 11/25/08 16:24 Operator: SB
Sample : VSTD02088 Inst : B-5973
Misc : VSTD02088 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 21:48:29 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:20:27 2008
Response via : Initial Calibration

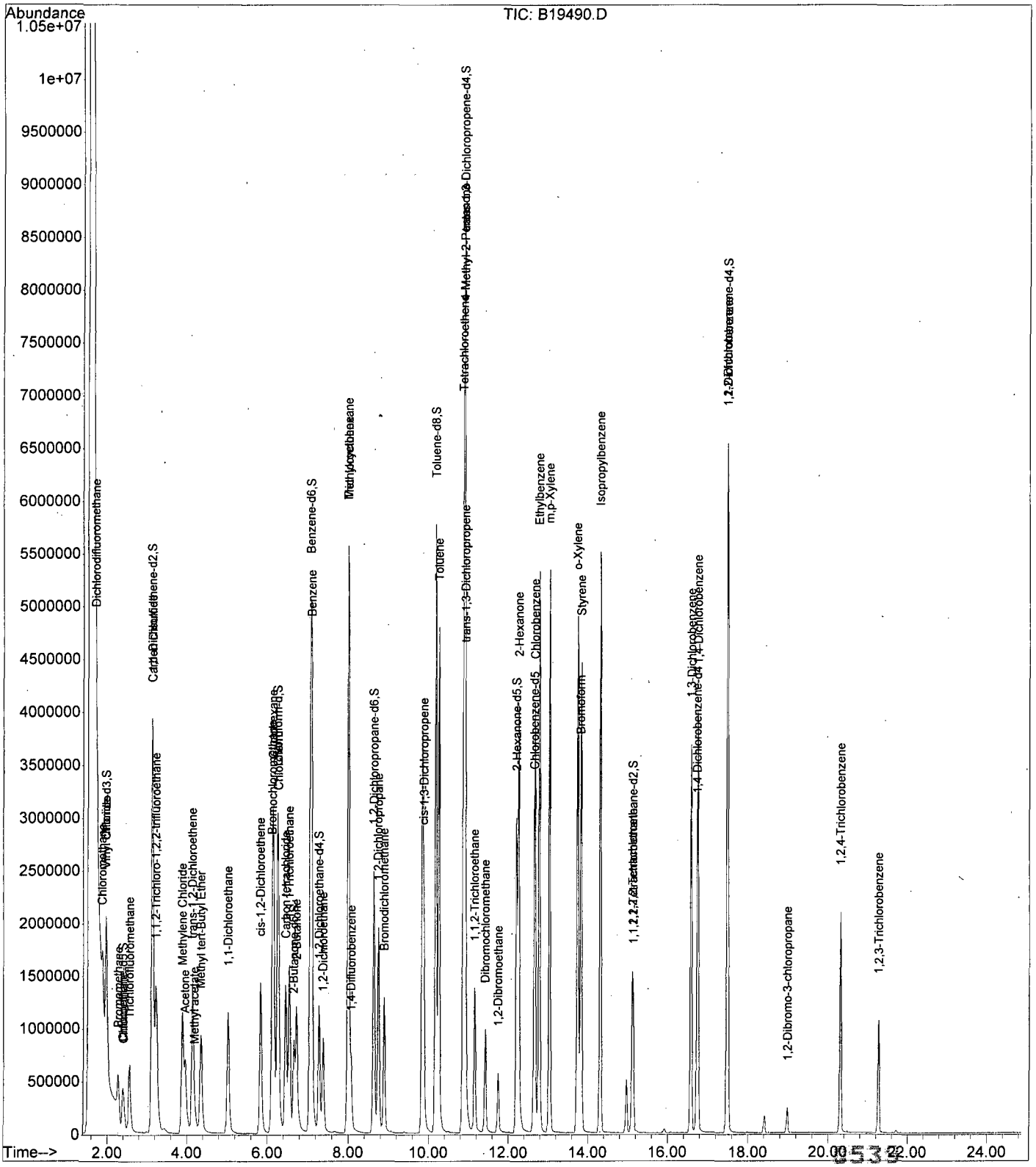
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	7.09	78	49081813	14.10	ug/L	100
34) Trichloroethene	8.00	95	12695648	14.33	ug/L	96
35) Methylcyclohexane	7.99	83	22894440	15.76	ug/L	98
37) 1,2-Dichloropropane	8.74	63	12321553	14.45	ug/L	99
38) Bromodichloromethane	8.88	83	13885019	14.31	ug/L	98
39) cis-1,3-Dichloropropene	9.87	75	18377820	15.67	ug/L	99
40) 4-Methyl-2-Pentanone	10.88	43	64004097	168.72	ug/L	100
42) Toluene	10.25	91	53253621	14.86	ug/L	100
44) trans-1,3-Dichloropropene	10.91	75	14415248	14.59	ug/L	98
45) 1,1,2-Trichloroethane	11.15	97	6982651	13.98	ug/L	100
46) Tetrachloroethene	10.85	164	10996796	14.07	ug/L	100
48) 2-Hexanone	12.25	43	45598829	183.13	ug/L	100
49) Dibromochloromethane	11.42	129	8511668	14.73	ug/L	98
50) 1,2-Dibromoethane	11.74	107	6418437	14.90	ug/L	97
51) Chlorobenzene	12.66	112	32864904	14.64	ug/L	99
52) Ethylbenzene	12.77	91	61106531	15.42	ug/L	100
53) m,p-Xylene	13.03	106	23636740	15.87	ug/L	100
54) o-Xylene	13.73	106	21710533	16.40	ug/L	100
55) Styrene	13.82	104	32883331	16.46	ug/L	99
56) Isopropylbenzene	14.31	105	59139874	16.27	ug/L	100
58) 1,1,2,2-Tetrachloroethane	15.14	83	7238095	13.93	ug/L	100
60) Bromoform	13.80	173	5132551	13.91	ug/L	100
61) 1,3-Dichlorobenzene	16.58	146	24358396	14.32	ug/L	100
62) 1,4-Dichlorobenzene	16.74	146	25079850	13.50	ug/L	100
64) 1,2-Dichlorobenzene	17.49	146	20821496	13.70	ug/L	100
65) 1,2-Dibromo-3-chloropropan	18.98	75	944889	12.79	ug/L	88
66) 1,2,4-Trichlorobenzene	20.31	180	10943056	16.94	ug/L	98
67) 1,2,3-Trichlorobenzene	21.27	180	5656879	18.53	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0538

Data File: C:\MSDChem\1\DATA\B19490.D
Acq On : 11/25/08 16:24 Operator: SB
Sample : VSTD02088 Inst : B-5973
Misc : VSTD02088 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 21:48:29 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:20:27 2008
Response via : Initial Calibration

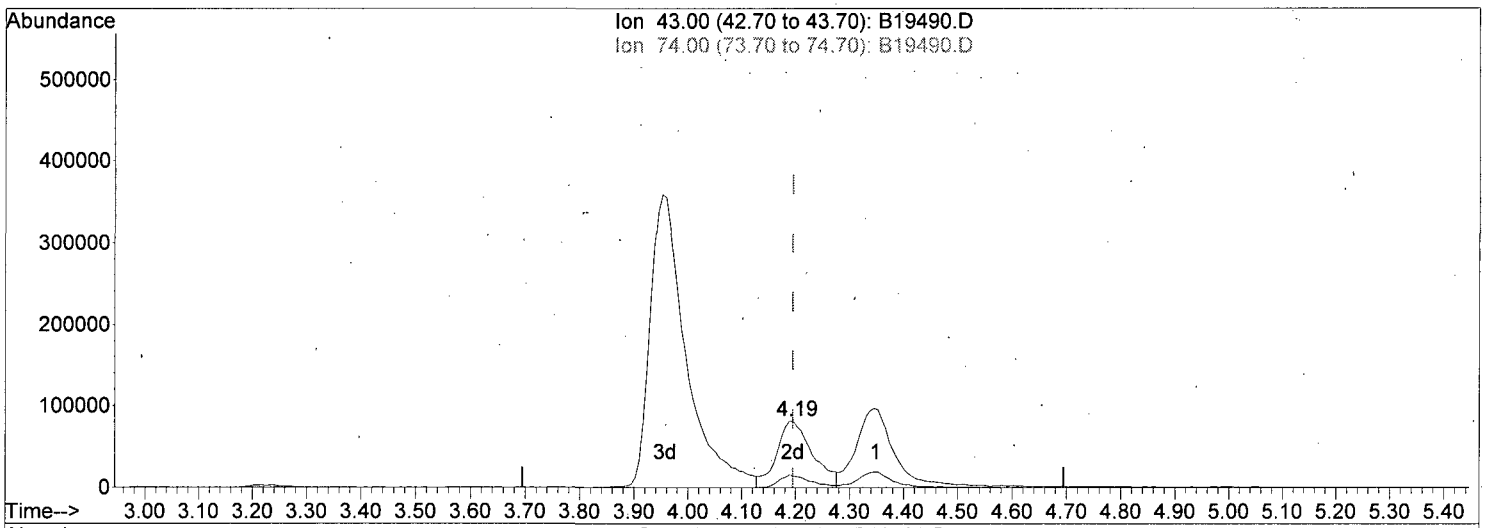


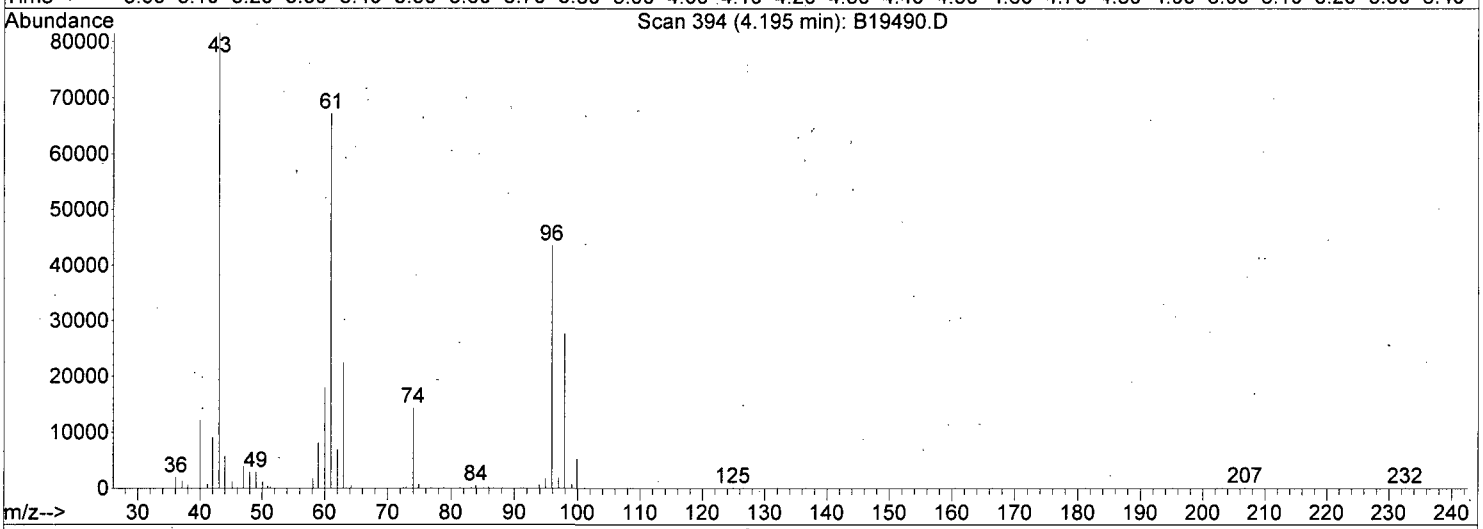
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19490.D
Acq On : 11/25/08 16:24 Operator: SB
Sample : VSTD02088 Inst : B-5973
Misc : VSTD02088 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 25 21:48:29 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:20:27 2008
Response via : Initial Calibration

11/28/08





TIC: B19490.D

(15) Methyl acetate

4.195min (+0.000) 13.21ug/L m

response 3820560

Ion	Exp%	Act%
43.00	100	100
74.00	21.70	21.38
0.00	0.00	0.00
0.00	0.00	0.00

0548

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19491.D
Acq On : 11/25/08 16:56
Sample : VSTD01088
Misc : VSTD01088 25ML
ALS Vial : 4 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: I-2 x E-4
Episode: S-2066 Init/date: 12/1/08

Quant Time: Nov 25 21:49:37 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:49:08 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	5356147	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	4583235	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	2200457	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	6464173	8.48	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 169.60%#			
7) Chloroethane-d5	2.39	69	2634105	7.62	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 152.40%#			
10) 1,1-Dichloroethene-d2	3.13	63	13801509	9.01	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 180.20%#			
21) 2-Butanone-d5	6.66	46	8601700	107.48	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 214.96%#			
24) Chloroform-d	6.25	84	12878402	8.51	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 170.20%#			
26) 1,2-Dichloroethane-d4	7.28	65	5626689	8.26	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 165.20%#			
32) Benzene-d6	7.06	84	25789797	8.81	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 176.20%#			
36) 1,2-Dichloropropane-d6	8.63	67	7707882	8.70	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 174.00%#			
41) Toluene-d8	10.17	98	24516529	9.25	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 185.00%#			
43) trans-1,3-Dichloropropene-	10.89	79	7507220	9.19	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 183.80%#			
47) 2-Hexanone-d5	12.20	63	6725701	120.43	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 240.86%#			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	4158348	8.49	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 169.80%#			
63) 1,2-Dichlorobenzene-d4	17.47	152	7669869	8.92	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 178.40%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.71	85	275713	13.16	ug/L	94
3) Chloromethane	1.87	50	7816808	11.50	ug/L	99
5) Vinyl Chloride	1.96	62	10045723	11.29	ug/L	99
6) Bromomethane	2.28	94	2701140	9.93	ug/L	95
8) Chloroethane	2.41	64	3133406	10.47	ug/L	100
9) Trichlorofluoromethane	2.56	101	7509515	11.38	ug/L	100
11) 1,1-Dichloroethene	3.13	96	7049022	11.46	ug/L #	70
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	7626034	11.48	ug/L	100
13) Acetone	3.97	43	6371203	81.62	ug/L	96
14) Carbon Disulfide	3.14	76	20482533	11.41	ug/L	100
15) Methyl acetate	4.20	43	2237347	9.97	ug/L	92
16) Methylene Chloride	3.89	84	6852307	10.54	ug/L	99
17) trans-1,2-Dichloroethene	4.14	96	7246479	11.77	ug/L	99
18) Methyl tert-Butyl Ether	4.36	73	10549009	11.96	ug/L	97
19) 1,1-Dichloroethane	5.03	63	14364032	11.51	ug/L	100
20) cis-1,2-Dichloroethene	5.83	96	7572186	12.14	ug/L	99
22) 2-Butanone	6.72	43	10686161	88.43	ug/L	100
23) Bromochloromethane	6.11	128	3063232	11.62	ug/L	99
25) Chloroform	6.27	83	12984153	11.27	ug/L	100
27) 1,2-Dichloroethane	7.38	62	7909902	11.67	ug/L	99
29) 1,1,1-Trichloroethane	6.54	97	11835850	11.81	ug/L	99
30) Cyclohexane	6.14	56	15629029	12.76	ug/L	98
31) Carbon tetrachloride	6.46	117	10067133	11.8[illegible]	ug/L	99

Data File: C:\MSDChem\1\DATA\B19491.D
Acq On : 11/25/08 16:56 Operator: SB
Sample : VSTD01088 Inst : B-5973
Misc : VSTD01088 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 21:49:37 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:49:08 2008
Response via : Initial Calibration

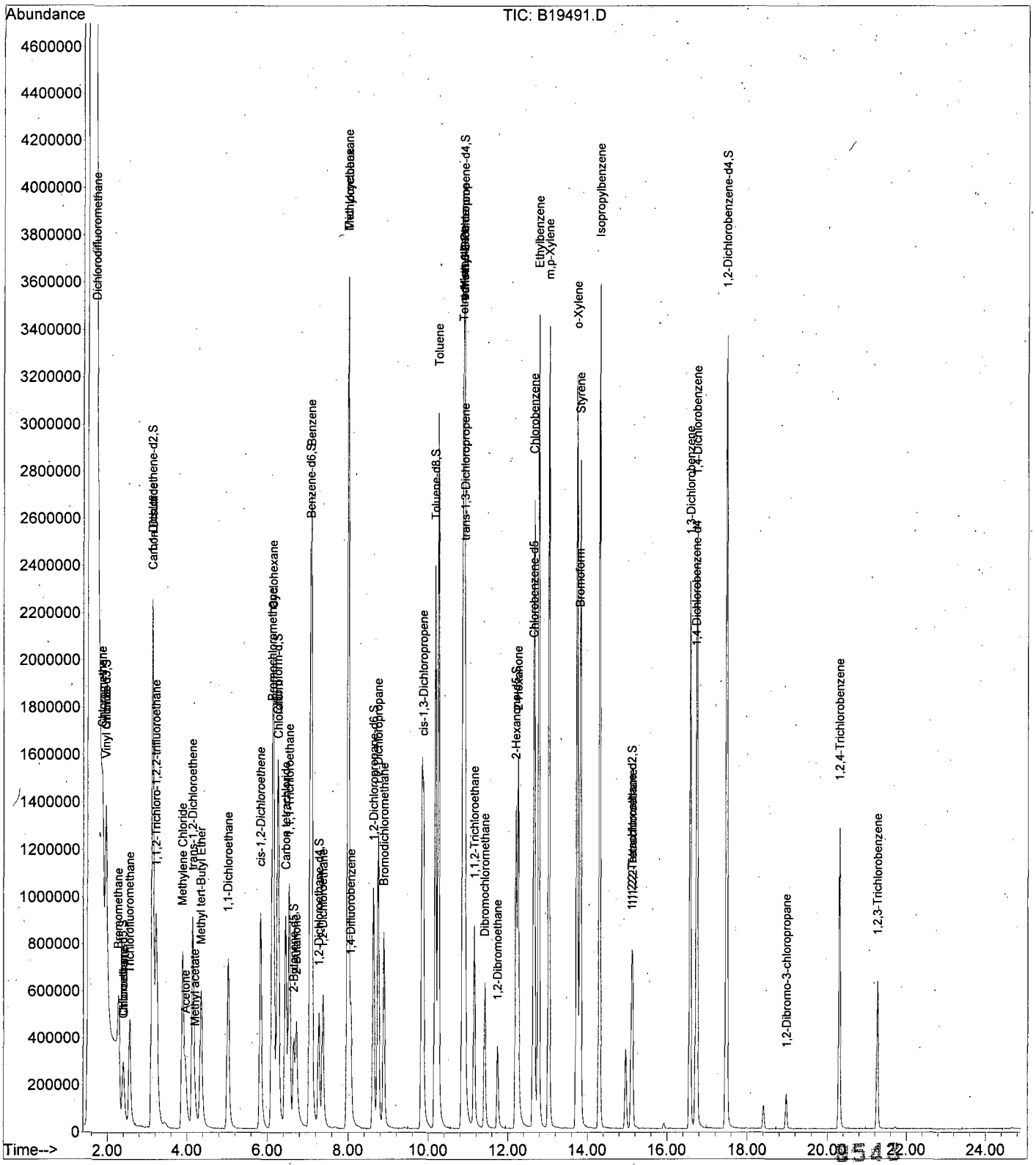
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	7.09	78	31778648	11.84	ug/L	100
34) Trichloroethene	8.00	95	8202126	12.00	ug/L	96
35) Methylcyclohexane	7.99	83	14780600	13.20	ug/L	98
37) 1,2-Dichloropropane	8.75	63	7819307	11.89	ug/L	99
38) Bromodichloromethane	8.89	83	8858296	11.84	ug/L	98
39) cis-1,3-Dichloropropene	9.87	75	11362714	12.56	ug/L	100
40) 4-Methyl-2-Pentanone	10.88	43	25989127	88.84	ug/L	100
42) Toluene	10.25	91	34236232	12.39	ug/L	100
44) trans-1,3-Dichloropropene	10.92	75	9109033	11.96	ug/L	99
45) 1,1,2-Trichloroethane	11.15	97	4468256	11.60	ug/L	98
46) Tetrachloroethene	10.86	164	7151636	11.87	ug/L	98
48) 2-Hexanone	12.25	43	18424403	95.96	ug/L	99
49) Dibromochloromethane	11.42	129	5368781	12.05	ug/L	98
50) 1,2-Dibromoethane	11.74	107	4067582	12.24	ug/L	97
51) Chlorobenzene	12.66	112	21029215	12.15	ug/L	100
52) Ethylbenzene	12.77	91	39088465	12.79	ug/L	99
53) m,p-Xylene	13.03	106	15007969	13.07	ug/L	98
54) o-Xylene	13.73	106	13931664	13.64	ug/L	100
55) Styrene	13.82	104	20725052	13.46	ug/L	99
56) Isopropylbenzene	14.31	105	37997750	13.56	ug/L	100
58) 1,1,2,2-Tetrachloroethane	15.14	83	4617758	11.53	ug/L	99
60) Bromoform	13.80	173	3172701	11.77	ug/L	99
61) 1,3-Dichlorobenzene	16.58	146	15351178	12.36	ug/L	99
62) 1,4-Dichlorobenzene	16.74	146	16098572	11.86	ug/L	100
64) 1,2-Dichlorobenzene	17.49	146	13420019	12.09	ug/L	100
65) 1,2-Dibromo-3-chloropropan	18.98	75	603625	11.19	ug/L	92
66) 1,2,4-Trichlorobenzene	20.31	180	6715356	14.23	ug/L	98
67) 1,2,3-Trichlorobenzene	21.27	180	3263047	14.63	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0542

Data File: C:\MSDChem\1\DATA\B19491.D
Acq On : 11/25/08 16:56 Operator: SB
Sample : VSTD01088 Inst : B-5973
Misc : VSTD01088 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 25 21:49:37 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:49:08 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19494.D
Acq On : 11/25/08 18:35
Sample : VSTD00188
Misc : VSTD00188 25ML
ALS Vial : 7 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 init/date: 11/28/08

Quant Time: Nov 27 09:12:12 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	4514218	5.00	ug/L		0.00
28) Chlorobenzene-d5	12.63	117	3977755	5.00	ug/L		0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1722678	5.00	ug/L		0.00
System Monitoring Compounds							
4) Vinyl chloride-d3	1.96	65	742807	1.16	ug/L		0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 23.20%#				
7) Chloroethane-d5	2.39	69	375294	1.29	ug/L		0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 25.80%#				
10) 1,1-Dichloroethene-d2	3.12	63	1517824	1.18	ug/L		0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 23.60%#				
21) 2-Butanone-d5	6.68	46	640938	9.50	ug/L		0.02
Spiked Amount 50.000	Range 49 - 155		Recovery = 19.00%#				
24) Chloroform-d	6.25	84	1534727	1.20	ug/L		0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 24.00%#				
26) 1,2-Dichloroethane-d4	7.28	65	729385	1.27	ug/L		0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 25.40%#				
32) Benzene-d6	7.06	84	2967451	1.17	ug/L		0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 23.40%#				
36) 1,2-Dichloropropane-d6	8.63	67	895237	1.16	ug/L		0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 23.20%#				
41) Toluene-d8	10.17	98	2538299	1.10	ug/L		0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 22.00%#				
43) trans-1,3-Dichloropropene-	10.90	79	747465	1.05	ug/L		0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 21.00%#				
47) 2-Hexanone-d5	12.21	63	438954	9.05	ug/L		0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 18.10%#				
57) 1,1,2,2-Tetrachloroethane-	15.11	84	478571	1.13	ug/L		0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 22.60%#				
63) 1,2-Dichlorobenzene-d4	17.47	152	791834	1.18	ug/L		0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 23.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.67	85	16045m	0.91	ug/L		
3) Chloromethane	1.87	50	631090	1.10	ug/L		97
5) Vinyl Chloride	1.96	62	843258	1.12	ug/L		97
6) Bromomethane	2.28	94	284374	1.24	ug/L		94
8) Chloroethane	2.41	64	294401	1.17	ug/L		92
9) Trichlorofluoromethane	2.56	101	635652	1.14	ug/L		97
11) 1,1-Dichloroethene	3.13	96	595296	1.15	ug/L		88
12) 1,1,2-Trichloro-1,2,2-trif	3.24	101	631680	1.13	ug/L		95
13) Acetone	3.97	43	761356	11.57	ug/L	#	75
14) Carbon Disulfide	3.14	76	1679766	1.11	ug/L		98
15) Methyl acetate	4.21	43	207695	1.10	ug/L	#	81
16) Methylene Chloride	3.89	84	617215	1.13	ug/L		96
17) trans-1,2-Dichloroethene	4.14	96	582287	1.12	ug/L		98
18) Methyl tert-Butyl Ether	4.35	73	769712	1.04	ug/L		96
19) 1,1-Dichloroethane	5.02	63	1175746	1.12	ug/L		100
20) cis-1,2-Dichloroethene	5.84	96	564479	1.07	ug/L		99
22) 2-Butanone	6.73	43	1073206	10.53	ug/L		92
23) Bromochloromethane	6.11	128	250373	1.13	ug/L		97
25) Chloroform	6.27	83	1084652	1.12	ug/L		98
27) 1,2-Dichloroethane	7.38	62	644283	1.13	ug/L		99
29) 1,1,1-Trichloroethane	6.54	97	949591	1.09	ug/L		97
30) Cyclohexane	6.14	56	1098753	1.03	ug/L		99
31) Carbon tetrachloride	6.45	117	828532	1.12	ug/L		98

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19494.D
Acq On : 11/25/08 18:35 Operator: SB
Sample : VSTD00188 Inst : B-5973
Misc : VSTD00188 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 27 09:12:12 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

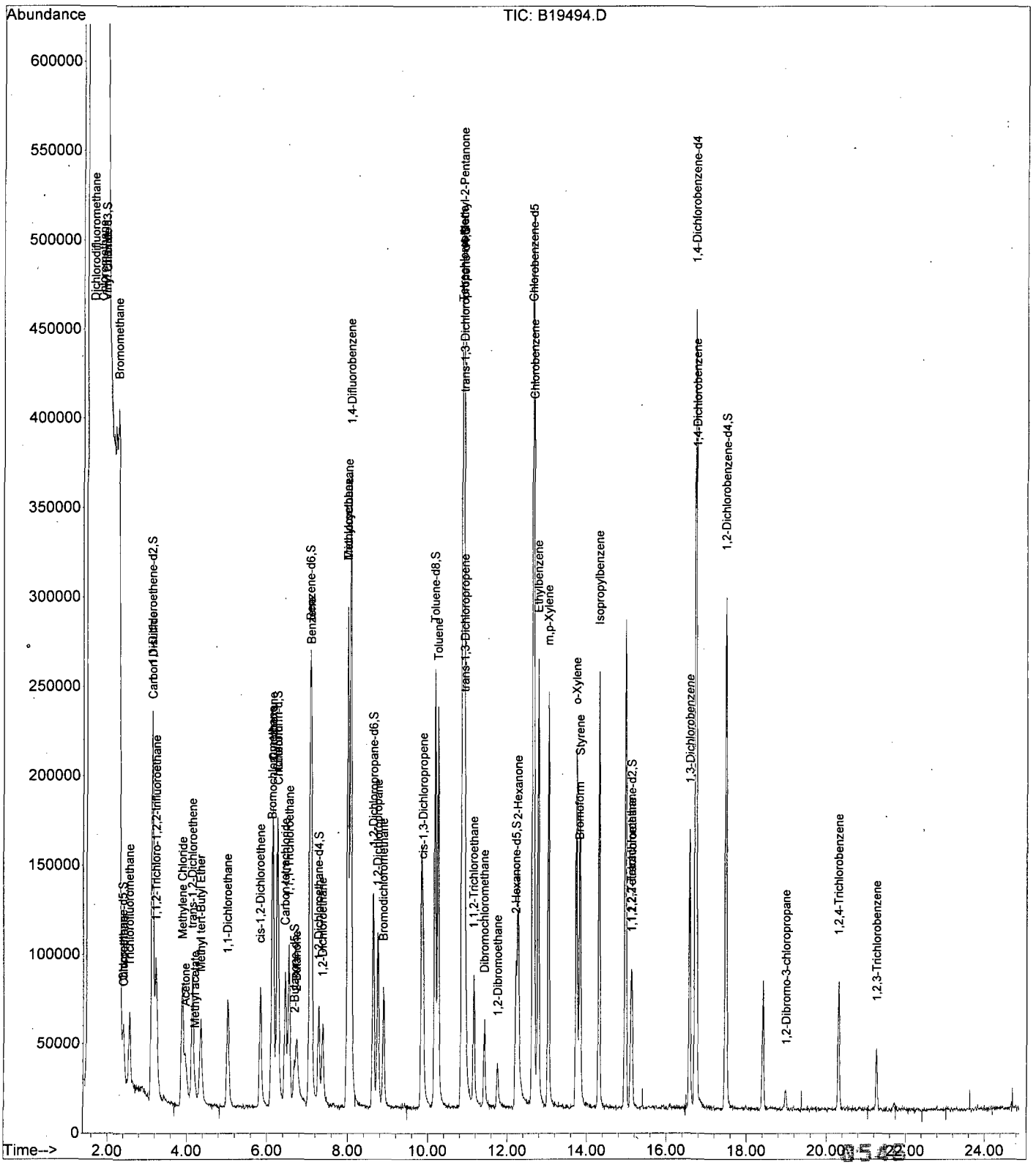
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	7.09	78	2537468	1.09	ug/L		100
34) Trichloroethene	8.00	95	626141	1.06	ug/L		97
35) Methylcyclohexane	7.99	83	1047340	1.08	ug/L		97
37) 1,2-Dichloropropane	8.75	63	628265	1.10	ug/L		99
38) Bromodichloromethane	8.88	83	707496	1.09	ug/L		99
39) cis-1,3-Dichloropropene	9.88	75	791214	1.01	ug/L		100
40) 4-Methyl-2-Pentanone	10.89	43	2695290	10.62	ug/L		98
42) Toluene	10.25	91	2546593	1.06	ug/L		97
44) trans-1,3-Dichloropropene	10.92	75	716258	1.08	ug/L		96
45) 1,1,2-Trichloroethane	11.15	97	369977	1.11	ug/L		99
46) Tetrachloroethene	10.86	164	572513	1.09	ug/L		98
48) 2-Hexanone	12.26	43	1672942	10.04	ug/L		95
49) Dibromochloromethane	11.42	129	402582	1.04	ug/L		100
50) 1,2-Dibromoethane	11.75	107	296190	1.03	ug/L	#	94
51) Chlorobenzene	12.66	112	1605085	1.07	ug/L		97
52) Ethylbenzene	12.77	91	2719467	1.03	ug/L		100
53) m,p-Xylene	13.03	106	1011369	1.01	ug/L		98
54) o-Xylene	13.73	106	868801	0.98	ug/L		95
55) Styrene	13.83	104	1312954	0.98	ug/L		96
56) Isopropylbenzene	14.31	105	2400209	0.99	ug/L		98
58) 1,1,2,2-Tetrachloroethane	15.14	83	374379	1.08	ug/L	#	96
60) Bromoform	13.80	173	231630	1.10	ug/L		94
61) 1,3-Dichlorobenzene	16.58	146	1043051	1.07	ug/L		99
62) 1,4-Dichlorobenzene	16.74	146	1172271	1.10	ug/L		98
64) 1,2-Dichlorobenzene	17.49	146	942123	1.08	ug/L		98
65) 1,2-Dibromo-3-chloropropan	18.98	75	46528	1.10	ug/L	#	87
66) 1,2,4-Trichlorobenzene	20.31	180	356455	0.97	ug/L		97
67) 1,2,3-Trichlorobenzene	21.27	180	172647	0.99	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0545

Data File: C:\MSDChem\1\DATA\B19494.D
Acq On : 11/25/08 18:35 Operator: SB
Sample : VSTD00188 Inst : B-5973
Misc : VSTD00188 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 27 09:12:12 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

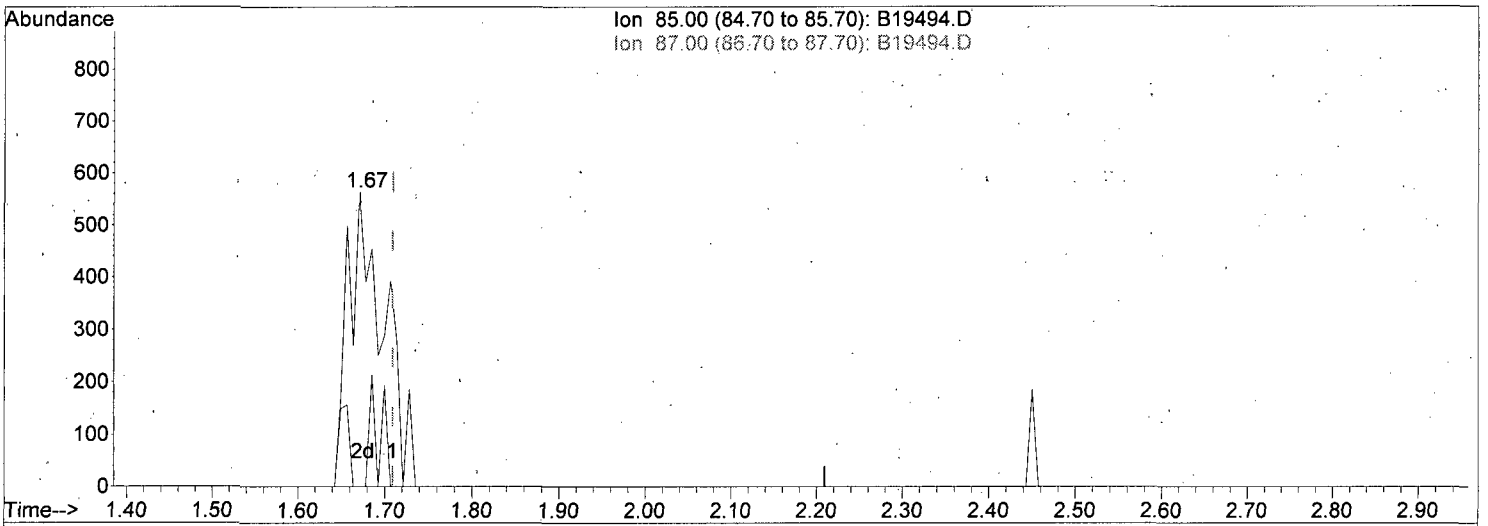


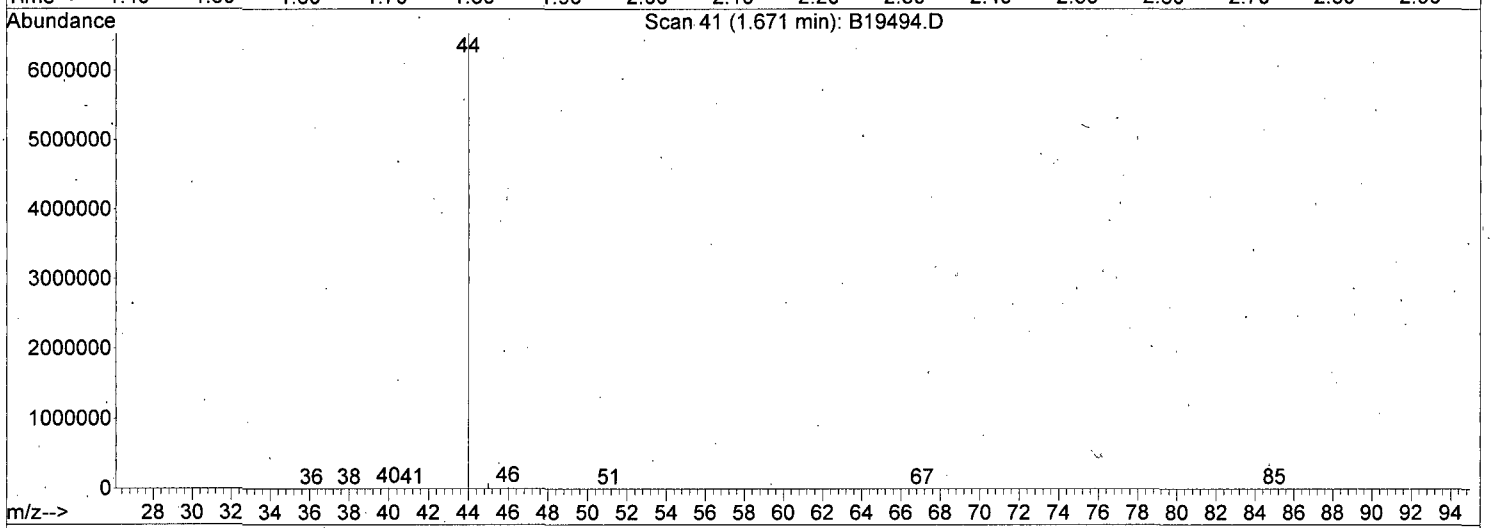
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19494.D
Acq On : 11/25/08 18:35 Operator: SB
Sample : VSTD00188 Inst : B-5973
Misc : VSTD00188 25ML
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 27 09:12:12 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

11/28/08





TIC: B19494.D

(2) Dichlorodifluoromethane

1.671min (-0.039) 0.91ug/L m

response 16045

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

6547

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19495.D
Acq On : 11/25/08 19:07
Sample : VSTD0.588
Misc : VSTD0.588 25ML
ALS Vial : 8 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 11/28/08

Quant Time: Nov 25 21:18:25 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:17:03 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	4232223	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	3735493	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1541356	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	369207	0.60	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 12.00%#			
7) Chloroethane-d5	2.39	69	191448	0.65	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 13.00%#			
10) 1,1-Dichloroethene-d2	3.13	63	710532	0.58	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 11.60%#			
21) 2-Butanone-d5	6.68	46	281735	4.55	ug/L	0.02
Spiked Amount 50.000	Range 49 - 155		Recovery = 9.10%#			
24) Chloroform-d	6.25	84	699203	0.62	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 12.40%#			
26) 1,2-Dichloroethane-d4	7.28	65	308865	0.56	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 11.20%#			
32) Benzene-d6	7.05	84	1342796	0.59	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 11.80%#			
36) 1,2-Dichloropropane-d6	8.63	67	412408	0.61	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 12.20%#			
41) Toluene-d8	10.17	98	1151342	0.58	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 11.60%#			
43) trans-1,3-Dichloropropene-	10.90	79	363642	0.58	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 11.60%#			
47) 2-Hexanone-d5	12.21	63	145864	3.51	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 7.02%#			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	239432	0.63	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 12.60%#			
63) 1,2-Dichlorobenzene-d4	17.47	152	339831	0.59	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 11.80%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.66	85	5919	0.02	ug/L #	87
3) Chloromethane	1.87	50	292073	0.44	ug/L	96
5) Vinyl Chloride	1.96	62	374426	0.53	ug/L	92
6) Bromomethane	2.27	94	139803	0.58	ug/L	93
8) Chloroethane	2.42	64	150395	0.59	ug/L #	75
9) Trichlorofluoromethane	2.56	101	283627	0.40	ug/L	93
11) 1,1-Dichloroethene	3.13	96	257150	0.51	ug/L	96
12) 1,1,2-Trichloro-1,2,2-trif	3.24	101	275744	0.48	ug/L	97
13) Acetone	3.97	43	367898	6.20	ug/L #	81
14) Carbon Disulfide	3.14	76	756055	0.48	ug/L	96
15) Methyl acetate	4.22	43	104108m	0.65	ug/L	
16) Methylene Chloride	3.89	84	317636	0.62	ug/L	96
17) trans-1,2-Dichloroethene	4.14	96	246356	0.48	ug/L	97
18) Methyl tert-Butyl Ether	4.35	73	334864	0.50	ug/L	95
19) 1,1-Dichloroethane	5.03	63	512950	0.51	ug/L	98
20) cis-1,2-Dichloroethene	5.84	96	247912	0.50	ug/L	96
22) 2-Butanone	6.74	43	512516	5.93	ug/L #	86
23) Bromochloromethane	6.11	128	104056	0.49	ug/L	93
25) Chloroform	6.27	83	489368	0.48	ug/L	99
27) 1,2-Dichloroethane	7.38	62	260743	0.46	ug/L	97
29) 1,1,1-Trichloroethane	6.54	97	422249	0.49	ug/L	96
30) Cyclohexane	6.14	56	442874	0.46	ug/L	99
31) Carbon tetrachloride	6.45	117	339845	0.45	ug/L	96

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19495.D
Acq On : 11/25/08 19:07 Operator: SB
Sample : VSTD0.588 Inst : B-5973
Misc : VSTD0.588 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 25 21:18:25 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:17:03 2008
Response via : Initial Calibration

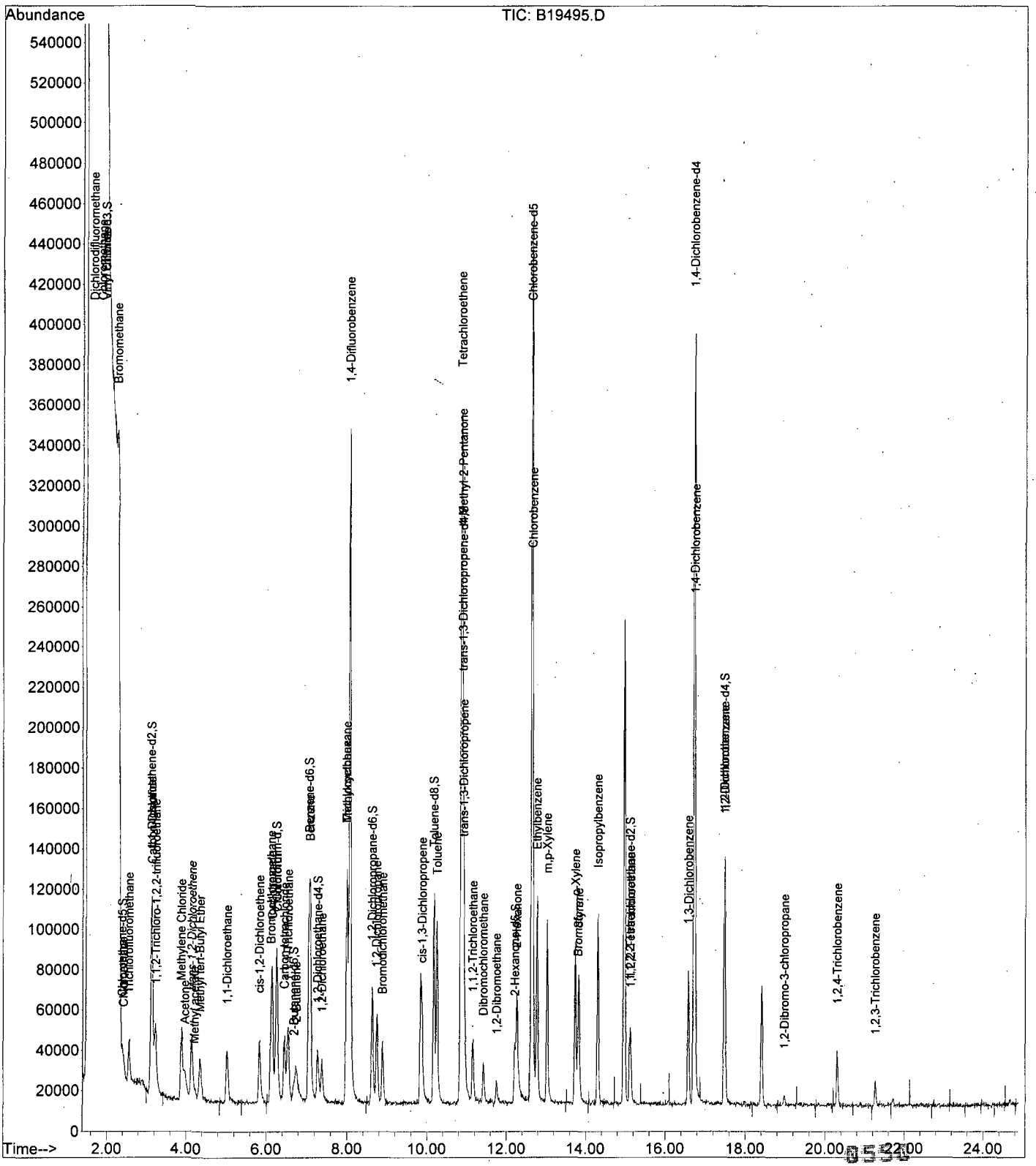
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	7.09	78	1092860	0.50	ug/L		100
34) Trichloroethene	8.00	95	266335	0.48	ug/L		93
35) Methylcyclohexane	7.99	83	363223	0.41	ug/L	#	81
37) 1,2-Dichloropropane	8.74	63	263045	0.49	ug/L	#	94
38) Bromodichloromethane	8.89	83	298613	0.47	ug/L		95
39) cis-1,3-Dichloropropene	9.88	75	322400	0.46	ug/L		99
40) 4-Methyl-2-Pentanone	10.89	43	1284887	5.81	ug/L		98
42) Toluene	10.25	91	1039809	0.48	ug/L		99
44) trans-1,3-Dichloropropene	10.92	75	297143	0.48	ug/L		95
45) 1,1,2-Trichloroethane	11.15	97	157534	0.50	ug/L		96
46) Tetrachloroethene	10.86	164	258007	0.50	ug/L		95
48) 2-Hexanone	12.26	43	726528	5.32	ug/L	#	93
49) Dibromochloromethane	11.42	129	176577	0.47	ug/L		97
50) 1,2-Dibromoethane	11.75	107	131154	0.48	ug/L	#	94
51) Chlorobenzene	12.66	112	682173	0.48	ug/L		93
52) Ethylbenzene	12.77	91	1111823	0.45	ug/L		98
53) m,p-Xylene	13.03	106	398407	0.44	ug/L		96
54) o-Xylene	13.73	106	329807	0.41	ug/L		89
55) Styrene	13.82	104	488299	0.42	ug/L		98
56) Isopropylbenzene	14.31	105	912247	0.41	ug/L		97
58) 1,1,2,2-Tetrachloroethane	15.13	83	166398	0.51	ug/L		96
60) Bromoform	13.80	173	89187	0.43	ug/L		94
61) 1,3-Dichlorobenzene	16.58	146	427703	0.49	ug/L		99
62) 1,4-Dichlorobenzene	16.74	146	495820	0.52	ug/L		98
64) 1,2-Dichlorobenzene	17.49	146	389668	0.50	ug/L		99
65) 1,2-Dibromo-3-chloropropan	18.97	75	20838	0.54	ug/L		95
66) 1,2,4-Trichlorobenzene	20.31	180	138869	0.41	ug/L		96
67) 1,2,3-Trichlorobenzene	21.26	180	60692	0.33	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0549

Data File: C:\MSDChem\1\DATA\B19495.D
Acq On : 11/25/08 19:07 Operator: SB
Sample : VSTD0.588 Inst : B-5973
Misc : VSTD0.588 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 25 21:18:25 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:17:03 2008
Response via : Initial Calibration

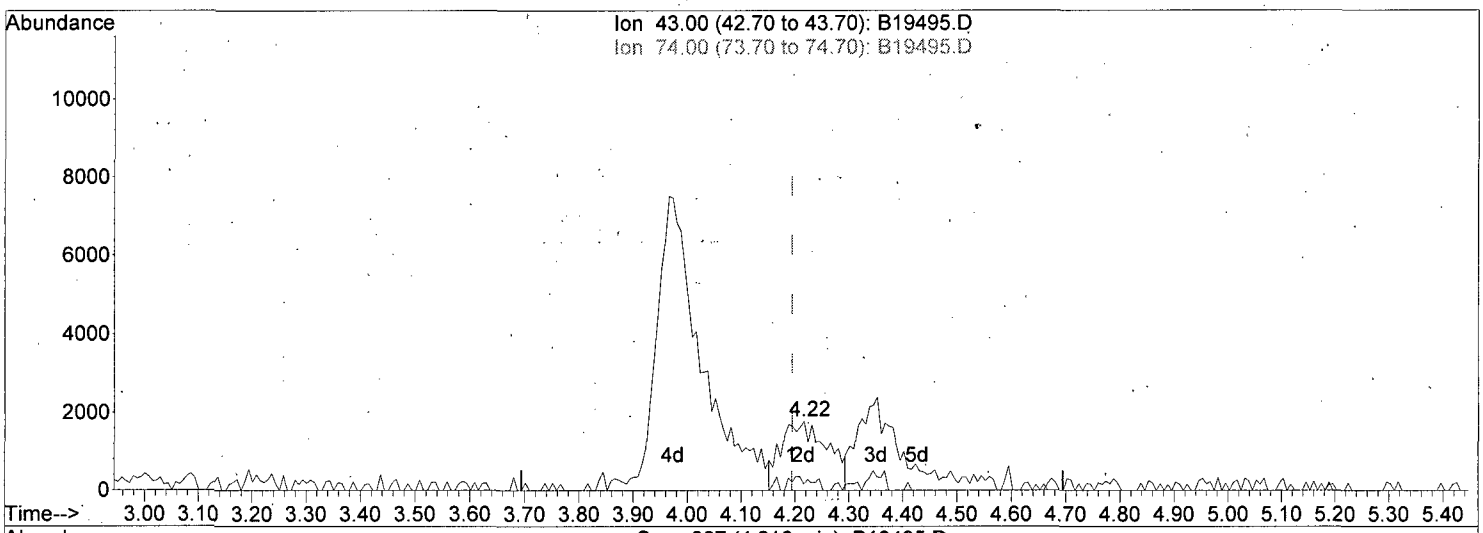


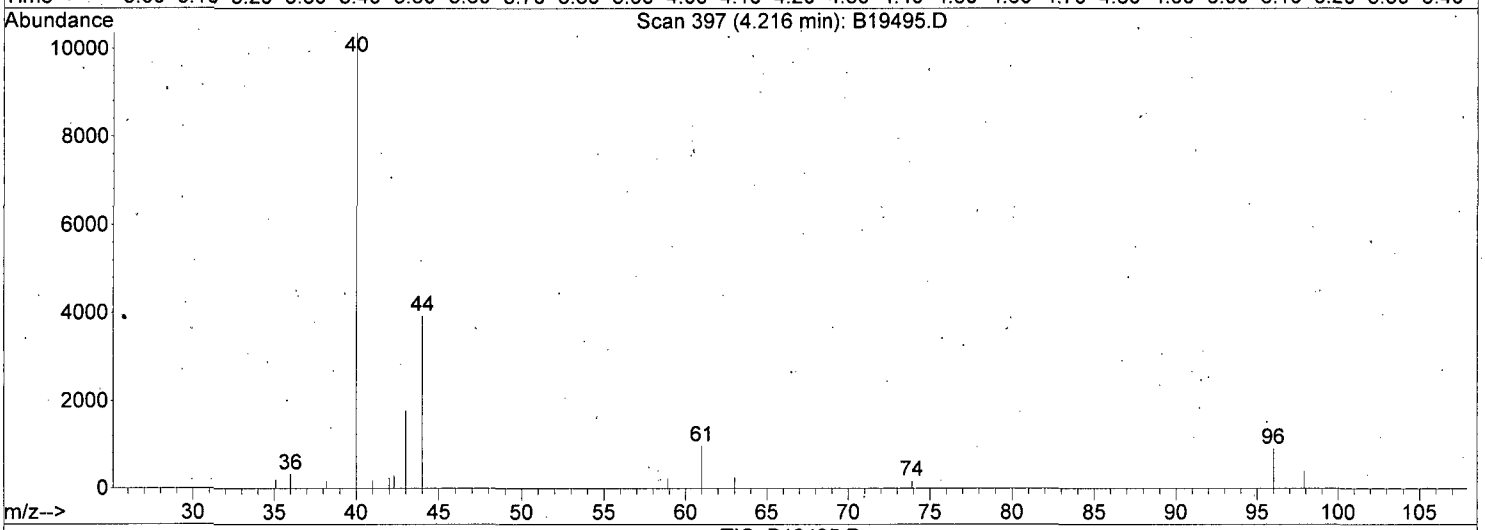
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19495.D
Acq On : 11/25/08 19:07 Operator: SB
Sample : VSTD0.588 Inst : B-5973
Misc : VSTD0.588 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 25 21:18:25 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:17:03 2008
Response via : Initial Calibration

11/28/08





TIC: B19495.D

(15) Methyl acetate

4.216min (+0.021) 0.65ug/L m

response 104108

Ion	Exp%	Act%
43.00	100	100
74.00	21.70	2.02#
0.00	0.00	0.00
0.00	0.00	0.00

0551

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19496.D
Acq On : 11/25/08 19:40 Operator: SB
Sample : VSTD00588 Inst : B-5973
Misc : VSTD00588 25ML
ALS Vial : 9 Sample Multiplier: 1

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 12/4/08

Quant Time: Nov 25 21:19:55 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:19:00 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	4684965	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	4014422	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1823666	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	3279339	5.08	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 101.60%			
7) Chloroethane-d5	2.39	69	1450662	4.99	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 99.80%			
10) 1,1-Dichloroethene-d2	3.12	63	6659630	5.18	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 103.60%			
21) 2-Butanone-d5	6.66	46	4195661	65.31	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 130.62%			
24) Chloroform-d	6.25	84	6629380	5.18	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 103.60%			
26) 1,2-Dichloroethane-d4	7.28	65	3162424	5.53	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 110.60%			
32) Benzene-d6	7.06	84	12872928	5.14	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 102.80%			
36) 1,2-Dichloropropane-d6	8.63	67	3876231	5.12	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 102.40%			
41) Toluene-d8	10.17	98	12003027	5.27	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 105.40%			
43) trans-1,3-Dichloropropene-	10.89	79	3823227	5.54	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 110.80%			
47) 2-Hexanone-d5	12.20	63	3156638	69.20	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 138.40%#			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	2218389	5.40	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 108.00%			
63) 1,2-Dichlorobenzene-d4	17.47	152	3561692	5.11	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 102.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.71	85	105864m	6.45	ug/L	
3) Chloromethane	1.87	50	2883689	5.15	ug/L	99
5) Vinyl Chloride	1.96	62	3874929	5.30	ug/L	100
6) Bromomethane	2.27	94	1116809	5.02	ug/L	98
8) Chloroethane	2.41	64	1303080	5.34	ug/L	99
9) Trichlorofluoromethane	2.56	101	2893903	5.32	ug/L	100
11) 1,1-Dichloroethene	3.13	96	2643141	5.20	ug/L	90
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	2839808	5.18	ug/L	98
13) Acetone	3.96	43	3561343	55.23	ug/L	97
14) Carbon Disulfide	3.14	76	7840260	5.32	ug/L	99
15) Methyl acetate	4.19	43	1032822m	5.77	ug/L	
16) Methylene Chloride	3.89	84	2709589	5.07	ug/L	98
17) trans-1,2-Dichloroethene	4.14	96	2616230	5.11	ug/L	98
18) Methyl tert-Butyl Ether	4.35	73	4086804	5.69	ug/L	96
19) 1,1-Dichloroethane	5.02	63	5457985	5.32	ug/L	100
20) cis-1,2-Dichloroethene	5.83	96	2661339	5.12	ug/L	98
22) 2-Butanone	6.72	43	5762504	57.71	ug/L	100
23) Bromochloromethane	6.11	128	1169423	5.41	ug/L	95
25) Chloroform	6.27	83	5062353	5.34	ug/L	99
27) 1,2-Dichloroethane	7.38	62	3067014	5.55	ug/L	100
29) 1,1,1-Trichloroethane	6.54	97	4340511	5.24	ug/L	98
30) Cyclohexane	6.14	56	5518124	5.41	ug/L	99
31) Carbon tetrachloride	6.45	117	3705079	5.28	ug/L	99

8552

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19496.D
Acq On : 11/25/08 19:40 Operator: SB
Sample : VSTD00588 Inst : B-5973
Misc : VSTD00588 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 21:19:55 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:19:00 2008
Response via : Initial Calibration

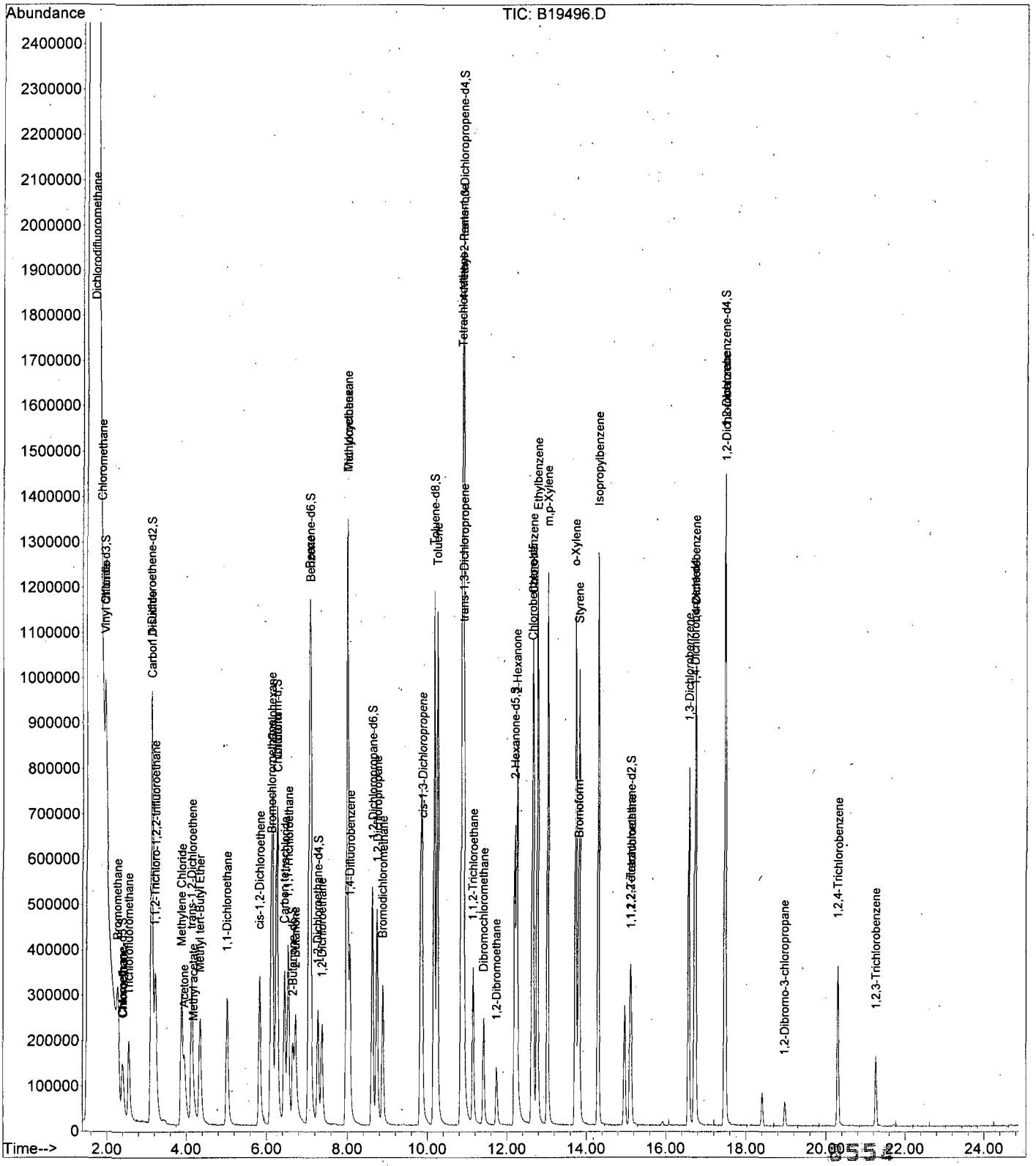
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	7.09	78	12014774	5.42	ug/L	100
34) Trichloroethene	8.00	95	3204113	5.69	ug/L	99
35) Methylcyclohexane	7.99	83	4999426	5.32	ug/L	97
37) 1,2-Dichloropropane	8.74	63	2895321	5.33	ug/L	100
38) Bromodichloromethane	8.89	83	3384753	5.52	ug/L	98
39) cis-1,3-Dichloropropene	9.87	75	4267028	5.74	ug/L	100
40) 4-Methyl-2-Pentanone	10.88	43	14457320	59.82	ug/L	98
42) Toluene	10.25	91	12460761	5.45	ug/L	100
44) trans-1,3-Dichloropropene	10.91	75	3453355	5.51	ug/L	99
45) 1,1,2-Trichloroethane	11.15	97	1736087	5.53	ug/L	98
46) Tetrachloroethene	10.85	164	2547660	5.06	ug/L	99
48) 2-Hexanone	12.25	43	10024683	64.08	ug/L	97
49) Dibromochloromethane	11.42	129	2037108	5.60	ug/L	100
50) 1,2-Dibromoethane	11.74	107	1505989	5.52	ug/L	96
51) Chlorobenzene	12.66	112	7722552	5.39	ug/L	100
52) Ethylbenzene	12.77	91	13791687	5.43	ug/L	99
53) m,p-Xylene	13.03	106	5200893	5.42	ug/L	97
54) o-Xylene	13.73	106	4662104	5.46	ug/L	95
55) Styrene	13.82	104	7222358	5.67	ug/L	98
56) Isopropylbenzene	14.30	105	12828651	5.50	ug/L	100
58) 1,1,2,2-Tetrachloroethane	15.13	83	1849433	5.69	ug/L	98
60) Bromoform	13.79	173	1211287	5.92	ug/L	99
61) 1,3-Dichlorobenzene	16.57	146	5111144	5.22	ug/L	98
62) 1,4-Dichlorobenzene	16.74	146	5577754	5.25	ug/L	99
64) 1,2-Dichlorobenzene	17.49	146	4696065	5.42	ug/L	99
65) 1,2-Dibromo-3-chloropropan	18.97	75	243312	5.93	ug/L	98
66) 1,2,4-Trichlorobenzene	20.31	180	1805803	4.72	ug/L	94
67) 1,2,3-Trichlorobenzene	21.27	180	777364	4.27	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0553

Data File: C:\MSDChem\1\DATA\B19496.D
Acq On : 11/25/08 19:40 Operator: SB
Sample : VSTD00588 Inst : B-5973
Misc : VSTD00588 25ML
ALS Vial : 9 Sample Multiplier: 1

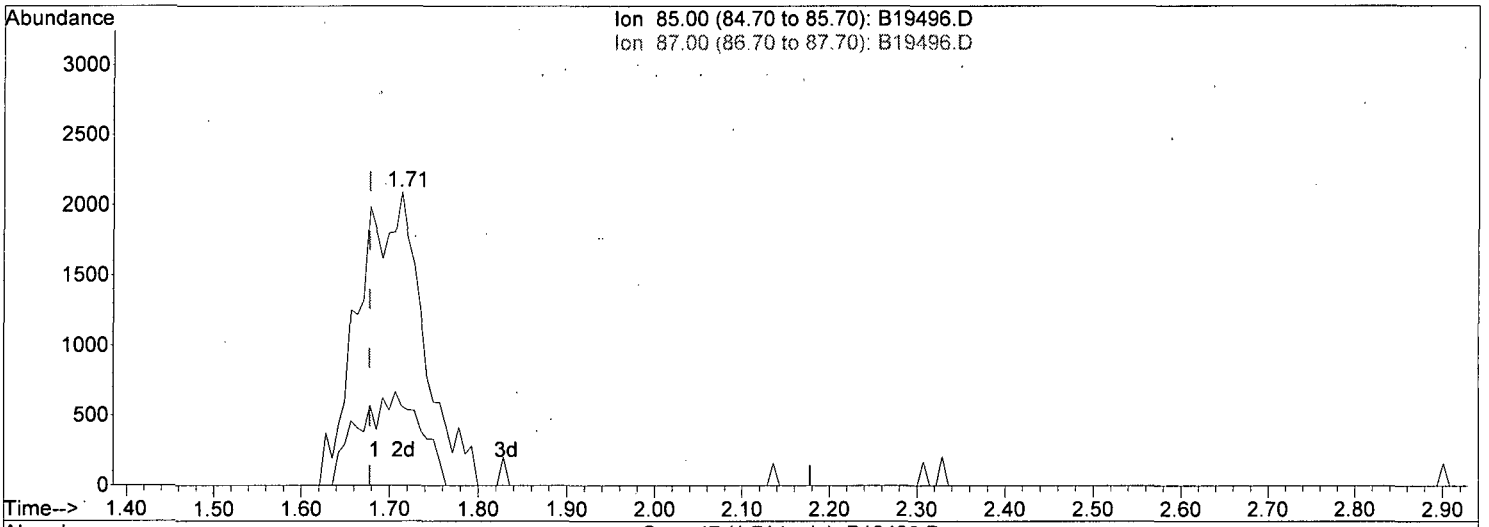
Quant Time: Nov 25 21:19:55 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:19:00 2008
Response via : Initial Calibration

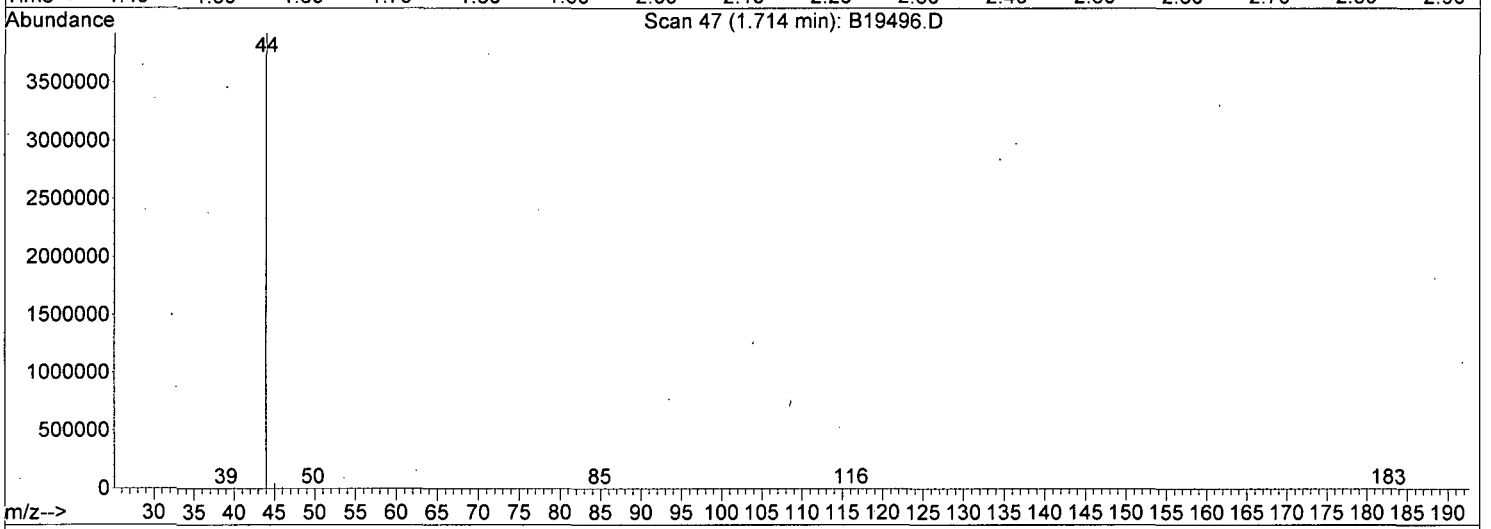


Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19496.D
Acq On : 11/25/08 19:40 Operator: SB
Sample : VSTD00588 Inst : B-5973
Misc : VSTD00588 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 21:19:55 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:19:00 2008
Response via : Initial Calibration





TIC: B19496.D

(2) Dichlorodifluoromethane

1.714min (+0.036) 6.45ug/L m

response 105864

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

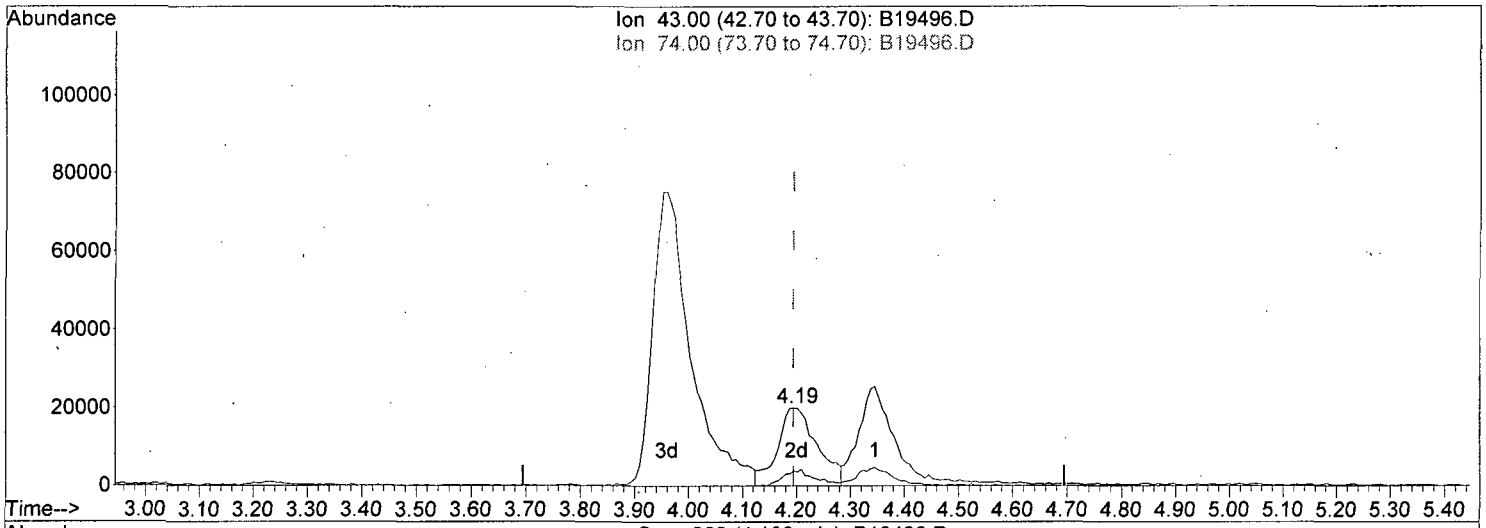
0555

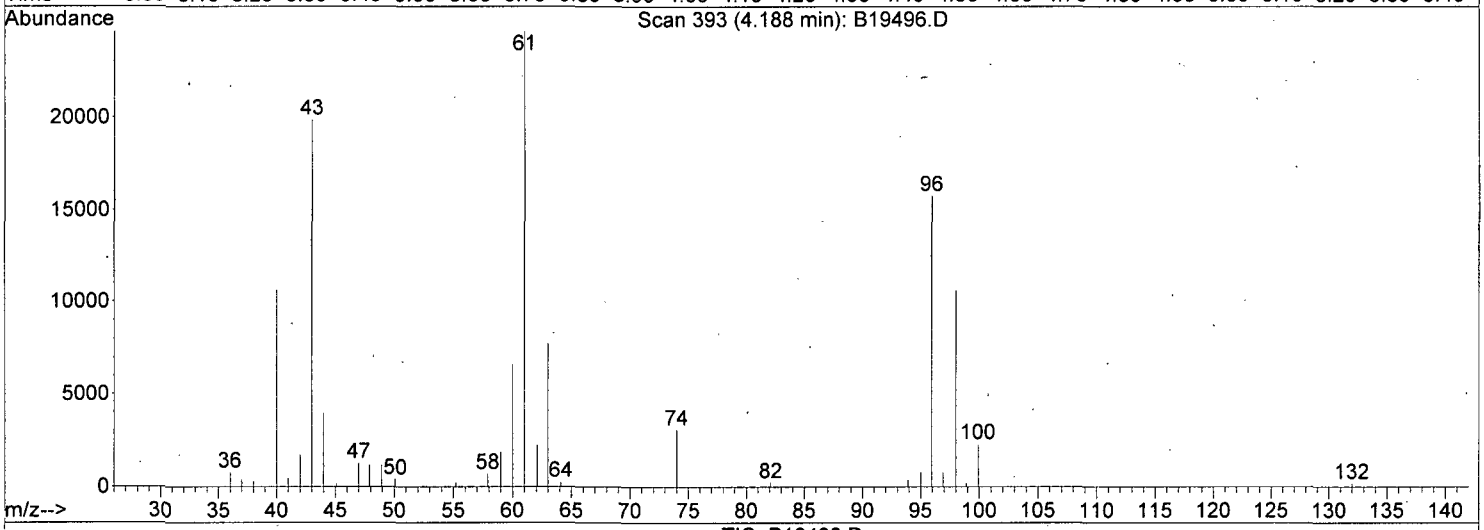
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19496.D
Acq On : 11/25/08 19:40 Operator: SB
Sample : VSTD00588 Inst : B-5973
Misc : VSTD00588 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 25 21:19:55 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:19:00 2008
Response via : Initial Calibration

11/28/08





TIC: B19496.D

(15) Methyl acetate

4.188min (-0.007) 5.77ug/L m

response 1032822

Ion	Exp%	Act%
43.00	100	100
74.00	21.70	20.62
0.00	0.00	0.00
0.00	0.00	0.00

0556

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 0627

Lab File ID: A17007 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00523 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.6922	0.010	-22.8	40.0
Chloromethane	1.1620	0.9445	0.010	-18.7	40.0
Vinyl chloride	1.0637	0.7621	0.100	-28.4	30.0
Bromomethane	0.4374	0.3097	0.100	-29.2	30.0
Chloroethane	0.4582	0.3618	0.010	-21.0	40.0
Trichlorofluoromethane	1.5559	1.2928	0.010	-16.9	40.0
1,1-Dichloroethene	0.7782	0.6155	0.100	-20.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.6538	0.010	-24.7	40.0
Acetone	0.0886	0.0747	0.010	-15.7	40.0
Carbon disulfide	2.6778	2.0277	0.010	-24.3	40.0
Methyl acetate	0.2832	0.2206	0.010	-22.1	40.0
Methylene chloride	0.8201	0.6326	0.010	-22.9	40.0
trans-1,2-Dichloroethene	0.8380	0.6467	0.010	-22.8	40.0
Methyl tert-butyl ether	1.1612	0.8809	0.010	-24.1	40.0
1,1-Dichloroethane	1.6519	1.2882	0.200	-22.0	30.0
cis-1,2-Dichloroethene	0.8075	0.6343	0.010	-21.4	40.0
2-Butanone	0.1424	0.1196	0.010	-16.0	40.0
Bromochloromethane	0.3122	0.2656	0.050	-14.9	30.0
Chloroform	1.5103	1.2467	0.200	-17.5	30.0
1,1,1-Trichloroethane	1.5726	1.1928	0.100	-24.2	30.0
Cyclohexane	1.9410	1.4287	0.010	-26.4	40.0
Carbon tetrachloride	1.3146	0.9847	0.100	-25.1	30.0
Benzene	4.0083	3.1973	0.400	-20.2	30.0
1,2-Dichloroethane	0.8593	0.6993	0.100	-18.6	30.0
Trichloroethene	1.0625	0.8118	0.300	-23.6	30.0
Methylcyclohexane	1.6024	1.1434	0.010	-28.6	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 0627

Lab File ID: A17007 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00523 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.7869	0.010	-20.4	40.0
Bromodichloromethane	1.0560	0.8320	0.200	-21.2	30.0
cis-1,3-Dichloropropene	1.2608	1.0231	0.200	-18.9	30.0
4-Methyl-2-pentanone	0.3070	0.3075	0.010	0.2	40.0
Toluene	4.0807	3.1924	0.400	-21.8	30.0
trans-1,3-Dichloropropene	0.9434	0.7977	0.100	-15.4	30.0
1,1,2-Trichloroethane	0.5007	0.4159	0.100	-16.9	30.0
Tetrachloroethene	0.8068	0.6013	0.100	-25.5	30.0
2-Hexanone	0.2002	0.2039	0.010	1.8	40.0
Dibromochloromethane	0.5508	0.4617	0.100	-16.2	30.0
1,2-Dibromoethane	0.4498	0.3660	0.010	-18.6	40.0
Chlorobenzene	2.4556	1.9676	0.500	-19.9	30.0
Ethylbenzene	4.3868	3.4790	0.100	-20.7	30.0
o-Xylene	1.4791	1.1896	0.300	-19.6	30.0
m,p-Xylene	1.6215	1.3065	0.300	-19.4	30.0
Styrene	1.7543	1.4928	0.300	-14.9	30.0
Bromoform	0.6426	0.4880	0.050	-24.1	30.0
Isopropylbenzene	3.8318	3.0947	0.010	-19.2	40.0
1,1,2,2-Tetrachloroethane	0.4635	0.3689	0.100	-20.4	30.0
1,3-Dichlorobenzene	3.6102	2.5930	0.400	-28.2	30.0
1,4-Dichlorobenzene	3.7048	2.7494	0.400	-25.8	30.0
1,2-Dichlorobenzene	3.1207	2.3390	0.400	-25.0	30.0
1,2-Dibromo-3-chloropropane	0.0878	0.0805	0.010	-8.3	40.0
1,2,4-Trichlorobenzene	1.2131	1.0541	0.200	-13.1	30.0
1,2,3-Trichlorobenzene	1.0409	0.8050	0.200	-22.7	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 0627

Lab File ID: A17007 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00523 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.5540	0.010	-15.0	30.0
Chloroethane-d5	0.3855	0.3657	0.010	-5.1	40.0
1,1-Dichloroethene-d2	1.6048	1.4227	0.010	-11.3	30.0
2-Butanone-d5	0.1171	0.1124	0.010	-4.0	40.0
Chloroform-d	1.7689	1.6722	0.010	-5.5	30.0
1,2-Dichloroethane-d4	0.7067	0.7147	0.010	1.1	30.0
Benzene-d6	3.6878	3.5785	0.010	-3.0	30.0
1,2-Dichloropropane-d6	1.0957	1.0624	0.010	-3.0	40.0
Toluene-d8	3.3790	3.3558	0.010	-0.7	30.0
trans-1,3-Dichloropropene-d4	0.9551	0.9591	0.010	0.4	30.0
2-Hexanone-d5	0.0551	0.0505	0.010	-8.3	40.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.5414	0.010	4.0	30.0
1,2-Dichlorobenzene-d4	2.2728	2.1232	0.010	-6.6	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Wed Nov 26 13:03:08 2008
Response Via : Initial Calibration

CC Data File: A17007.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	89
2		Dichlorodifluoromethane	0.896	0.692	22.8	68
3		Chloromethane	1.162	0.945	18.7	76
4	S	Vinyl chloride-d3	0.652	0.554	15.0	74
5		Vinyl Chloride	1.064	0.762	28.4#	64
6		Bromomethane	0.437	0.310	29.2#	64
7	S	Chloroethane-d5	0.385	0.366	5.1	77
8		Chloroethane	0.458	0.362	21.0	69
9		Trichlorofluoromethane	1.556	1.293	16.9	74
10	S	1,1-Dichloroethene-d2	1.605	1.423	11.3	76
11		1,1-Dichloroethene	0.778	0.616	20.9	71
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.654	24.7	67
13		Acetone	0.089	0.075	15.7	79
14		Carbon Disulfide	2.678	2.028	24.3	67
15		Methyl acetate	0.283	0.221	22.1	72
16		Methylene Chloride	0.820	0.633	22.9	72
17		trans-1,2-Dichloroethene	0.838	0.647	22.8	69
18		Methyl tert-Butyl Ether	1.161	0.881	24.1	68
19		1,1-Dichloroethane	1.652	1.288	22.0	69
20		cis-1,2-Dichloroethene	0.807	0.634	21.5	72
21	S	2-Butanone-d5	0.117	0.112	4.0	84
22		2-Butanone	0.142	0.120	16.0	78
23		Bromochloromethane	0.312	0.266	14.9	76
24	S	Chloroform-d	1.769	1.672	5.5	87
25		Chloroform	1.510	1.247	17.5	75
26	S	1,2-Dichloroethane-d4	0.707	0.715	-1.1	86
27		1,2-Dichloroethane	0.859	0.699	18.6	74
28		Chlorobenzene-d5	1.000	1.000	0.0	91
29		1,1,1-Trichloroethane	1.573	1.193	24.2	70
30		Cyclohexane	1.941	1.429	26.4#	63
31		Carbon tetrachloride	1.315	0.985	25.1#	68
32	S	Benzene-d6	3.688	3.579	3.0	82
33		Benzene	4.008	3.197	20.2	72
34		Trichloroethene	1.062	0.812	23.6	66
35		Methylcyclohexane	1.602	1.143	28.6#	61
36	S	1,2-Dichloropropane-d6	1.096	1.062	3.0	83
37		1,2-Dichloropropane	0.988	0.787	20.4	73
38		Bromodichloromethane	1.056	0.832	21.2	71
39		cis-1,3-Dichloropropene	1.261	1.023	18.8	71
40		4-Methyl-2-Pentanone	0.307	0.307	-0.1	84
41	S	Toluene-d8	3.379	3.356	0.7	82
42		Toluene	4.081	3.192	21.8	69
43	S	trans-1,3-Dichloropropene-d4	0.955	0.959	-0.4	82
44		trans-1,3-Dichloropropene	0.943	0.798	15.4	71
45		1,1,2-Trichloroethane	0.501	0.416	16.9	77
46		Tetrachloroethene	0.807	0.601	25.5#	69
47	S	2-Hexanone-d5	0.055	0.050	8.5	78
48		2-Hexanone	0.200	0.204	-1.8	81
49		Dibromochloromethane	0.551	0.462	16.2	74
50		1,2-Dibromoethane	0.450	0.366	18.6	72
51		Chlorobenzene	2.456	1.968	19.9	73
52		Ethylbenzene	4.387	3.479	20.7	70
53		m,p-Xylene	1.622	1.306	19.4	69
54		o-Xylene	1.479	1.190	19.6	69
55		Styrene	1.754	1.493	14.9	71
56		Isopropylbenzene	3.832	3.095	19.2	67

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Wed Nov 26 13:03:08 2008
Response Via : Initial Calibration

CC Data File: A17007.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

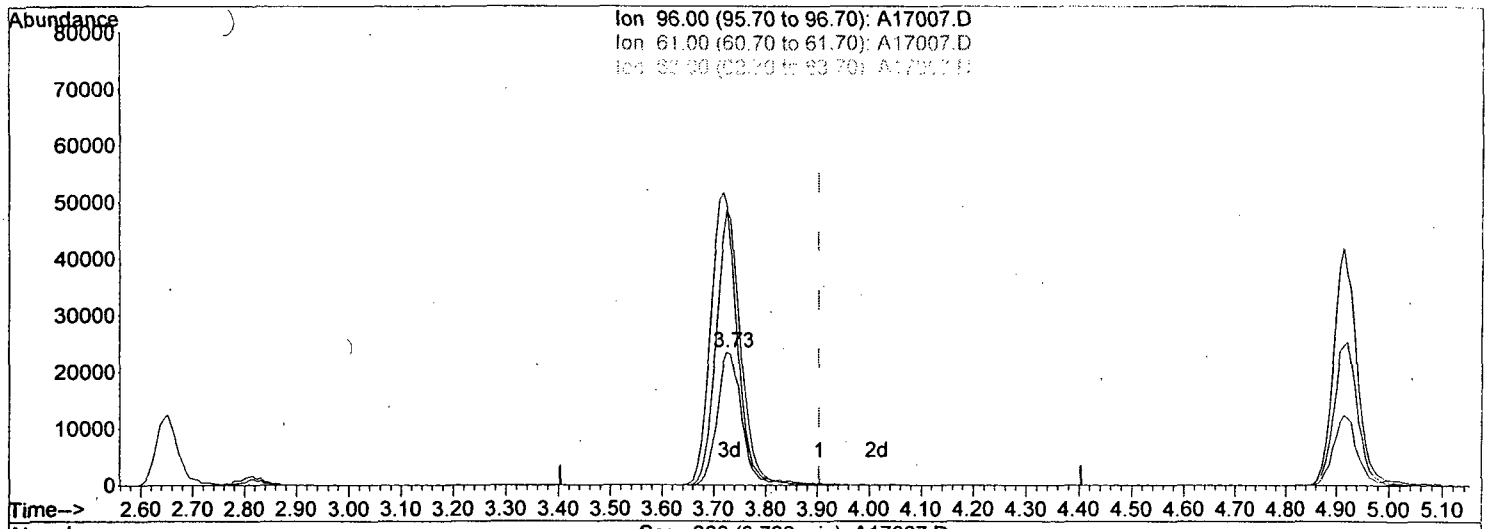
		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.541	-4.0	88
58		1,1,2,2-Tetrachloroethane	0.464	0.369	20.4	73
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94
60		Bromoform	0.643	0.488	24.1	73
61		1,3-Dichlorobenzene	3.610	2.593	28.2#	69
62		1,4-Dichlorobenzene	3.705	2.749	25.8#	70
63	S	1,2-Dichlorobenzene-d4	2.273	2.123	6.6	84
64		1,2-Dichlorobenzene	3.121	2.339	25.0#	72
65		1,2-Dibromo-3-chloropropane	0.088	0.080	8.3	73
66		1,2,4-Trichlorobenzene	1.213	1.054	13.1	93
67		1,2,3-Trichlorobenzene	1.041	0.805	22.7	105

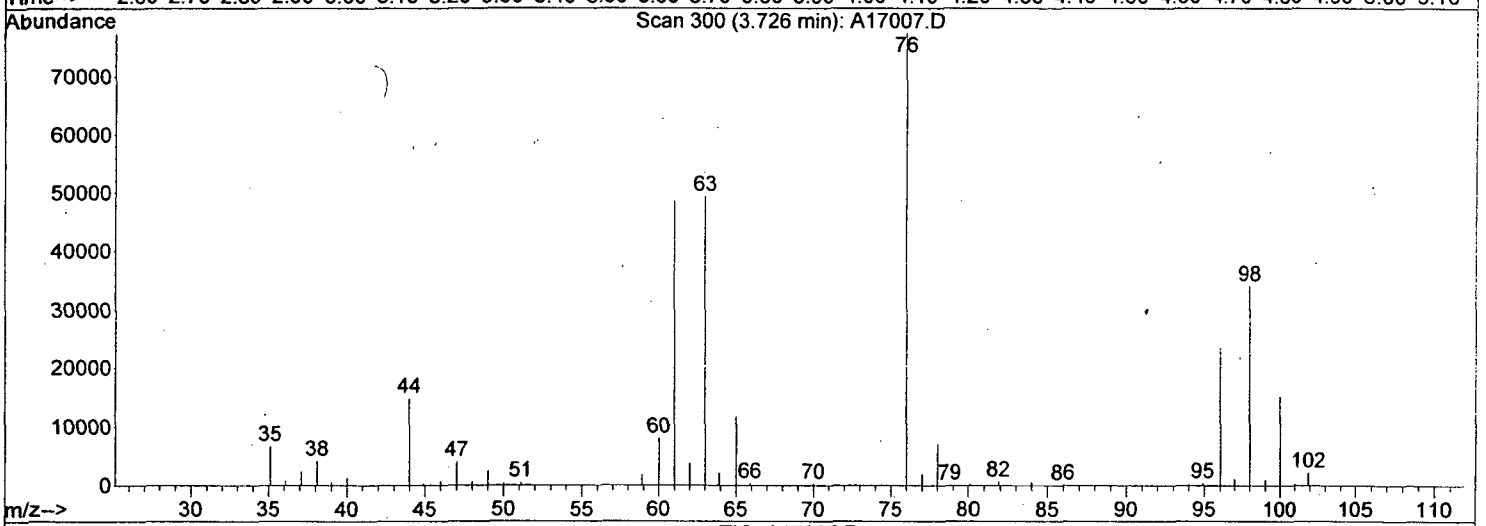
(#) = Out of Range SPCC's out = 0 CCC's out = 0

0561

Data File: C:\MSDChem\1\DATA\A17007.D
Acq On : 11/26/08 06:27 Operator: SB
Sample : VSTD00523 Inst : A-5973
Misc : VSTD00523 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 07:17:22 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 07:16:06 2008
Response via : Initial Calibration





TIC: A17007.D

(11) 1,1-Dichloroethene

3.726min (-0.179) 3.95ug/L m

response 777550

Ion	Exp%	Act%
96.00	100	100
61.00	188.20	1.31#
63.00	63.70	0.53#
0.00	0.00	0.00

0562

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A17007.D
Acq On : 11/26/08 06:27
Sample : VSTD00523
Misc : VSTD00523 25ML
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Quant Time: Nov 26 07:17:22 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 07:16:06 2008
Response via : Initial Calibration

ORIGINAL
Case: 38009 SDG: CQ153
Episode: S-2059 Init/date: 11/26/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.99	114	1263209	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.56	117	1074385	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.64	152	494617	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	699877	4.25	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 85.00%			
7) Chloroethane-d5	2.80	69	461965	4.74	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 94.80%			
10) 1,1-Dichloroethene-d2	3.72	63	1797205	4.43	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 88.60%			
21) 2-Butanone-d5	7.59	46	1419936	47.98	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 95.96%			
24) Chloroform-d	7.15	84	2112367	4.73	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 94.60%			
26) 1,2-Dichloroethane-d4	8.21	65	902761	5.06	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 101.20%			
32) Benzene-d6	7.97	84	3844721	4.85	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 97.00%			
36) 1,2-Dichloropropane-d6	9.57	67	1141436	4.85	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 97.00%			
41) Toluene-d8	11.09	98	3605465	4.97	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 99.40%			
43) trans-1,3-Dichloropropene-	11.82	79	1030481	5.02	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 100.40%			
47) 2-Hexanone-d5	13.13	63	542144	45.77	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 91.54%			
57) 1,1,2,2-Tetrachloroethane-	16.03	84	581629	5.20	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 104.00%			
63) 1,2-Dichlorobenzene-d4	18.41	152	1050154	4.67	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 93.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	874370	3.86	ug/L	97
3) Chloromethane	2.14	50	1193106	4.06	ug/L	98
5) Vinyl Chloride	2.25	62	962658	3.58	ug/L	97
6) Bromomethane	2.65	94	391248	3.54	ug/L	99
8) Chloroethane	2.82	64	457045	3.95	ug/L	99
9) Trichlorofluoromethane	3.01	101	1633051	4.15	ug/L	98
11) 1,1-Dichloroethene	3.73	96	777550m	3.95	ug/L	
12) 1,1,2-Trichloro-1,2,2-trif	3.83	101	825838	3.76	ug/L	92
13) Acetone	4.77	43	943335	42.16	ug/L	95
14) Carbon Disulfide	3.73	76	2561454	3.79	ug/L	99
15) Methyl acetate	5.01	43	278619m	3.90	ug/L	
16) Methylene Chloride	4.67	84	799089	3.86	ug/L	99
17) trans-1,2-Dichloroethene	4.92	96	816869	3.86	ug/L	99
18) Methyl tert-Butyl Ether	5.14	73	1112720	3.79	ug/L	97
19) 1,1-Dichloroethane	5.89	63	1627292	3.90	ug/L	99
20) cis-1,2-Dichloroethene	6.72	96	801211	3.93	ug/L	97
22) 2-Butanone	7.66	43	1511230	42.02	ug/L	93
23) Bromochloromethane	7.01	128	335541	4.25	ug/L	91
25) Chloroform	7.17	83	1574888	4.13	ug/L	100
27) 1,2-Dichloroethane	8.32	62	883371	4.07	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	1281554	3.79	ug/L	97
30) Cyclohexane	7.00	56	1534995	3.68	ug/L	99
31) Carbon tetrachloride	7.32	117	1057981	3.75	ug/L	100

Data File: C:\MSDChem\1\DATA\A17007.D
Acq On : 11/26/08 06:27 Operator: SB
Sample : VSTD00523 Inst : A-5973
Misc : VSTD00523 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 07:17:22 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 07:16:06 2008
Response via : Initial Calibration

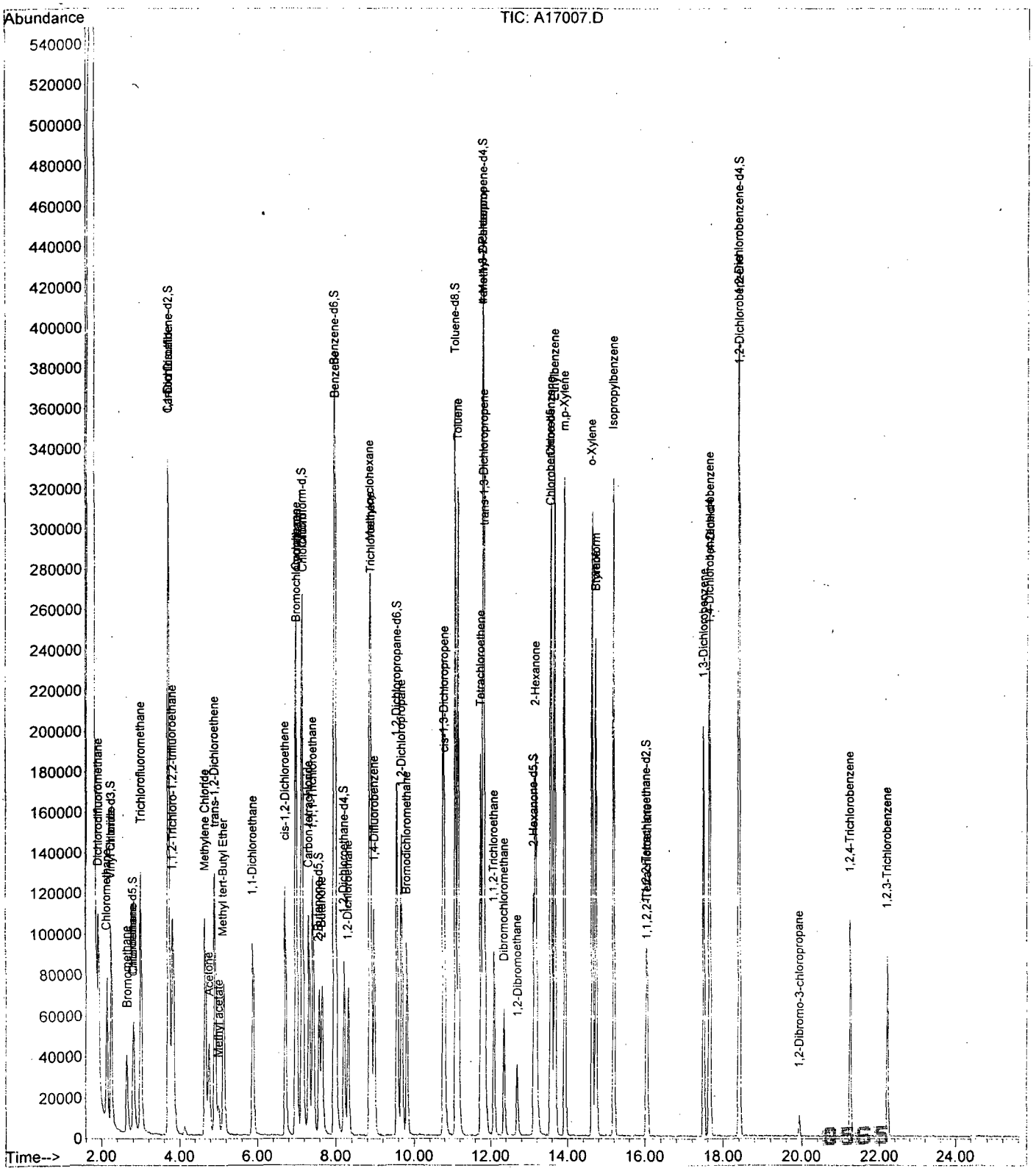
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.00	78	3435085	3.99	ug/L		100
34) Trichloroethene	8.91	95	872148	3.82	ug/L		93
35) Methylcyclohexane	8.87	83	1228403	3.57	ug/L		98
37) 1,2-Dichloropropane	9.69	63	845444	3.98	ug/L	#	98
38) Bromodichloromethane	9.82	83	893902	3.94	ug/L		98
39) cis-1,3-Dichloropropene	10.80	75	1099227	4.06	ug/L		100
40) 4-Methyl-2-Pentanone	11.82	43	3303214	50.07	ug/L		99
42) Toluene	11.17	91	3429890	3.91	ug/L		100
44) trans-1,3-Dichloropropene	11.85	75	857072	4.23	ug/L		99
45) 1,1,2-Trichloroethane	12.09	97	446855	4.15	ug/L		94
46) Tetrachloroethene	11.75	164	645994	3.73	ug/L		93
48) 2-Hexanone	13.18	43	2190621	50.92	ug/L		99
49) Dibromochloromethane	12.35	129	496068	4.19	ug/L		96
50) 1,2-Dibromoethane	12.69	107	393184	4.07	ug/L		96
51) Chlorobenzene	13.58	112	2113975	4.01	ug/L		95
52) Ethylbenzene	13.67	91	3737776	3.97	ug/L		98
53) m,p-Xylene	13.93	106	1403660	4.03	ug/L		93
54) o-Xylene	14.64	106	1278051	4.02	ug/L		93
55) Styrene	14.74	104	1603801	4.25	ug/L	#	100
56) Isopropylbenzene	15.20	105	3324882	4.04	ug/L		98
58) 1,1,2,2-Tetrachloroethane	16.07	83	396382	3.98	ug/L	#	95
60) Bromoform	14.73	173	241386	3.80	ug/L	#	94
61) 1,3-Dichlorobenzene	17.50	146	1282520	3.59	ug/L		96
62) 1,4-Dichlorobenzene	17.67	146	1359888	3.71	ug/L		97
64) 1,2-Dichlorobenzene	18.42	146	1156909	3.75	ug/L		97
65) 1,2-Dibromo-3-chloropropan	19.94	75	39808	4.58	ug/L	#	79
66) 1,2,4-Trichlorobenzene	21.24	180	521394	4.34	ug/L	#	92
67) 1,2,3-Trichlorobenzene	22.21	180	398175	3.87	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0564

Data File: C:\MSDChem\1\DATA\A17007.D
Acq On : 11/26/08 06:27 Operator: SB
Sample : VSTD00523 Inst : A-5973
Misc : VSTD00523 25ML
ALS Vial : 1 Sample Multiplier: 1

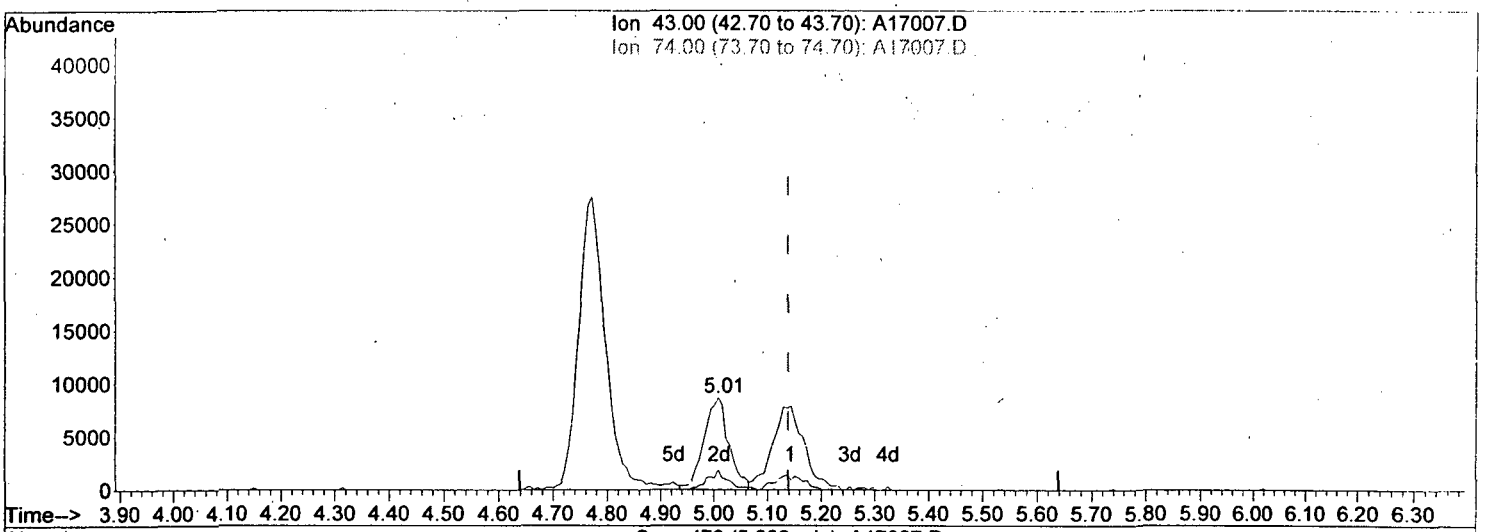
Quant Time: Nov 26 07:17:22 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 07:16:06 2008
Response via : Initial Calibration

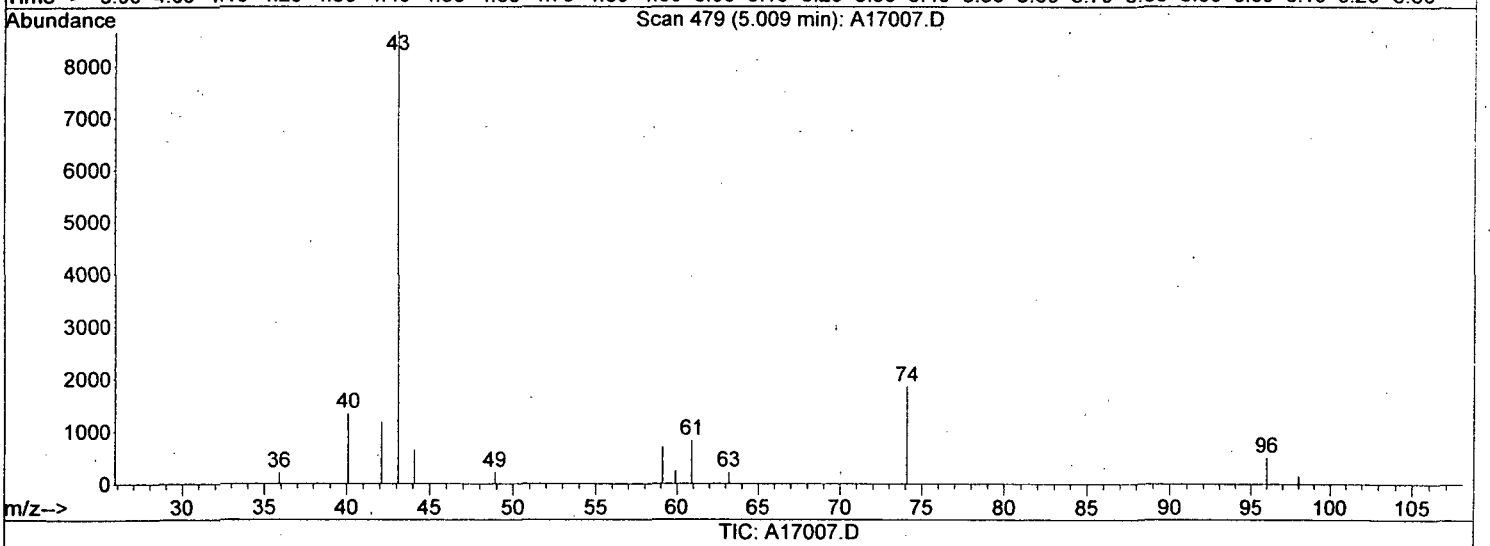


Data File: C:\MSDChem\1\DATA\A17007.D
Acq On : 11/26/08 06:27 Operator: SB
Sample : VSTD00523 Inst : A-5973
Misc : VSTD00523 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 07:17:22 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 07:16:06 2008
Response via : Initial Calibration

11/26/08





TIC: A17007.D

(15) Methyl acetate

5.009min (-0.131) 3.90ug/L m

response 278619

Ion	Exp%	Act%
43.00	100	100
74.00	18.90	18.38
0.00	0.00	0.00
0.00	0.00	0.00

0566

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 1647

Lab File ID: A17024 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00524 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.7463	0.010	-16.7	50.0
Chloromethane	1.1620	0.9650	0.010	-17.0	50.0
Vinyl chloride	1.0637	0.9075	0.010	-14.7	50.0
Bromomethane	0.4374	0.3418	0.010	-21.9	50.0
Chloroethane	0.4582	0.3935	0.010	-14.1	50.0
Trichlorofluoromethane	1.5559	1.4669	0.010	-5.7	50.0
1,1-Dichloroethene	0.7782	0.6565	0.010	-15.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.7656	0.010	-11.8	50.0
Acetone	0.0886	0.0760	0.010	-14.2	50.0
Carbon disulfide	2.6778	2.2276	0.010	-16.8	50.0
Methyl acetate	0.2832	0.2383	0.010	-15.9	50.0
Methylene chloride	0.8201	0.6588	0.010	-19.7	50.0
trans-1,2-Dichloroethene	0.8380	0.6611	0.010	-21.1	50.0
Methyl tert-butyl ether	1.1612	0.9108	0.010	-21.6	50.0
1,1-Dichloroethane	1.6519	1.3683	0.010	-17.2	50.0
cis-1,2-Dichloroethene	0.8075	0.6556	0.010	-18.8	50.0
2-Butanone	0.1424	0.1225	0.010	-14.0	50.0
Bromochloromethane	0.3122	0.2742	0.010	-12.2	50.0
Chloroform	1.5103	1.2934	0.010	-14.4	50.0
1,1,1-Trichloroethane	1.5726	1.3344	0.010	-15.1	50.0
Cyclohexane	1.9410	1.7037	0.010	-12.2	50.0
Carbon tetrachloride	1.3146	1.1550	0.010	-12.1	50.0
Benzene	4.0083	3.4743	0.010	-13.3	50.0
1,2-Dichloroethane	0.8593	0.7282	0.010	-15.3	50.0
Trichloroethene	1.0625	1.0830	0.010	1.9	50.0
Methylcyclohexane	1.6024	1.3751	0.010	-14.2	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 1647

Lab File ID: A17024 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00524 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.8154	0.010	-17.5	50.0
Bromodichloromethane	1.0560	0.9105	0.010	-13.8	50.0
cis-1,3-Dichloropropene	1.2608	1.1094	0.010	-12.0	50.0
4-Methyl-2-pentanone	0.3070	0.3279	0.010	6.8	50.0
Toluene	4.0807	3.5902	0.010	-12.0	50.0
trans-1,3-Dichloropropene	0.9434	0.8937	0.010	-5.3	50.0
1,1,2-Trichloroethane	0.5007	0.4395	0.010	-12.2	50.0
Tetrachloroethene	0.8068	0.6900	0.010	-14.5	50.0
2-Hexanone	0.2002	0.2282	0.010	14.0	50.0
Dibromochloromethane	0.5508	0.5084	0.010	-7.7	50.0
1,2-Dibromoethane	0.4498	0.3831	0.010	-14.8	50.0
Chlorobenzene	2.4556	2.1450	0.010	-12.6	50.0
Ethylbenzene	4.3868	3.8772	0.010	-11.6	50.0
o-Xylene	1.4791	1.3349	0.010	-9.7	50.0
m,p-Xylene	1.6215	1.4472	0.010	-10.7	50.0
Styrene	1.7543	1.6526	0.010	-5.8	50.0
Bromoform	0.6426	0.5255	0.010	-18.2	50.0
Isopropylbenzene	3.8318	3.5437	0.010	-7.5	50.0
1,1,2,2-Tetrachloroethane	0.4635	0.4142	0.010	-10.6	50.0
1,3-Dichlorobenzene	3.6102	2.8539	0.010	-20.9	50.0
1,4-Dichlorobenzene	3.7048	3.0922	0.010	-16.5	50.0
1,2-Dichlorobenzene	3.1207	2.6059	0.010	-16.5	50.0
1,2-Dibromo-3-chloropropane	0.0878	0.0782	0.010	-10.9	50.0
1,2,4-Trichlorobenzene	1.2131	1.0795	0.010	-11.0	50.0
1,2,3-Trichlorobenzene	1.0409	0.9623	0.010	-7.6	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 1647

Lab File ID: A17024 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00524 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.6175	0.010	-5.2	50.0
Chloroethane-d5	0.3855	0.3961	0.010	2.7	50.0
1,1-Dichloroethene-d2	1.6048	1.4554	0.010	-9.3	50.0
2-Butanone-d5	0.1171	0.1429	0.010	22.0	50.0
Chloroform-d	1.7689	1.7279	0.010	-2.3	50.0
1,2-Dichloroethane-d4	0.7067	0.7278	0.010	3.0	50.0
Benzene-d6	3.6878	3.7698	0.010	2.2	50.0
1,2-Dichloropropane-d6	1.0957	1.0976	0.010	0.2	50.0
Toluene-d8	3.3790	3.5776	0.010	5.9	50.0
trans-1,3-Dichloropropene-d4	0.9551	1.0280	0.010	7.6	50.0
2-Hexanone-d5	0.0551	0.0737	0.010	33.8	50.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.5887	0.010	13.0	50.0
1,2-Dichlorobenzene-d4	2.2728	2.3322	0.010	2.6	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Wed Nov 26 17:40:55 2008
Response Via : Initial Calibration

CC Data File: A17024.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	85
2		Dichlorodifluoromethane	0.896	0.746	16.7	71
3		Chloromethane	1.162	0.965	17.0	75
4	S	Vinyl chloride-d3	0.652	0.617	5.2	79
5		Vinyl Chloride	1.064	0.907	14.7	73
6		Bromomethane	0.437	0.342	21.9	68
7	S	Chloroethane-d5	0.385	0.396	-2.8	80
8		Chloroethane	0.458	0.394	14.1	72
9		Trichlorofluoromethane	1.556	1.467	5.7	81
10	S	1,1-Dichloroethene-d2	1.605	1.455	9.3	75
11		1,1-Dichloroethene	0.778	0.657	15.6	73
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.766	11.8	76
13		Acetone	0.089	0.076	14.2	77
14		Carbon Disulfide	2.678	2.228	16.8	71
15		Methyl acetate	0.283	0.238	15.8	74
16		Methylene Chloride	0.820	0.659	19.7	72
17		trans-1,2-Dichloroethene	0.838	0.661	21.1	68
18		Methyl tert-Butyl Ether	1.161	0.911	21.6	67
19		1,1-Dichloroethane	1.652	1.368	17.2	70
20		cis-1,2-Dichloroethene	0.807	0.656	18.8	72
21	S	2-Butanone-d5	0.117	0.143	-22.0	103
22		2-Butanone	0.142	0.122	14.0	77
23		Bromochloromethane	0.312	0.274	12.2	75
24	S	Chloroform-d	1.769	1.728	2.3	86
25		Chloroform	1.510	1.293	14.4	75
26	S	1,2-Dichloroethane-d4	0.707	0.728	-3.0	84
27		1,2-Dichloroethane	0.859	0.728	15.3	74
28		Chlorobenzene-d5	1.000	1.000	0.0	86
29		1,1,1-Trichloroethane	1.573	1.334	15.1	74
30		Cyclohexane	1.941	1.704	12.2	71
31		Carbon tetrachloride	1.315	1.155	12.1	76
32	S	Benzene-d6	3.688	3.770	-2.2	82
33		Benzene	4.008	3.474	13.3	74
34		Trichloroethene	1.062	1.083	-1.9	84
35		Methylcyclohexane	1.602	1.375	14.2	70
36	S	1,2-Dichloropropane-d6	1.096	1.098	-0.2	81
37		1,2-Dichloropropane	0.988	0.815	17.5	72
38		Bromodichloromethane	1.056	0.911	13.8	74
39		cis-1,3-Dichloropropene	1.261	1.109	12.0	72
40		4-Methyl-2-Pentanone	0.307	0.328	-6.8	85
41	S	Toluene-d8	3.379	3.578	-5.9	83
42		Toluene	4.081	3.590	12.0	74
43	S	trans-1,3-Dichloropropene-d4	0.955	1.028	-7.6	83
44		trans-1,3-Dichloropropene	0.943	0.894	5.3	76
45		1,1,2-Trichloroethane	0.501	0.439	12.2	77
46		Tetrachloroethene	0.807	0.690	14.5	75
47	S	2-Hexanone-d5	0.055	0.074	-33.7#	107
48		2-Hexanone	0.200	0.228	-14.0	86
49		Dibromochloromethane	0.551	0.508	7.7	77
50		1,2-Dibromoethane	0.450	0.383	14.8	72
51		Chlorobenzene	2.456	2.145	12.7	75
52		Ethylbenzene	4.387	3.877	11.6	73
53		m,p-Xylene	1.622	1.447	10.7	72
54		o-Xylene	1.479	1.335	9.7	73
55		Styrene	1.754	1.653	5.8	74
56		Isopropylbenzene	3.832	3.544	7.5	73

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Wed Nov 26 17:40:55 2008
Response Via : Initial Calibration

CC Data File: A17024.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.589	-13.0	91
58		1,1,2,2-Tetrachloroethane	0.464	0.414	10.6	78
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91
60		Bromoform	0.643	0.525	18.2	76
61		1,3-Dichlorobenzene	3.610	2.854	20.9	73
62		1,4-Dichlorobenzene	3.705	3.092	16.5	76
63	S	1,2-Dichlorobenzene-d4	2.273	2.332	-2.6	89
64		1,2-Dichlorobenzene	3.121	2.606	16.5	77
65		1,2-Dibromo-3-chloropropane	0.088	0.078	10.9	68
66		1,2,4-Trichlorobenzene	1.213	1.080	11.0	92
67		1,2,3-Trichlorobenzene	1.041	0.962	7.6	121

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0571

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A17024.D
Acq On : 11/26/08 16:47 Operator: SB
Sample : VSTD00524 Inst : A-5973
Misc : VSTD00524 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 17:14:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 14:44:20 2008
Response via : Initial Calibration

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 Init/date: 11/26/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1213465	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1017635	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	478062	5.00	ug/L	0.03
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	749279	4.74	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 94.80%			
7) Chloroethane-d5	2.80	69	480628	5.14	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 102.80%			
10) 1,1-Dichloroethene-d2	3.73	63	1766106	4.53	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 90.60%			
21) 2-Butanone-d5	7.60	46	1733709	60.98	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 121.96%			
24) Chloroform-d	7.16	84	2096732	4.88	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 97.60%			
26) 1,2-Dichloroethane-d4	8.22	65	883144	5.15	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 103.00%			
32) Benzene-d6	7.98	84	3836253	5.11	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 102.20%			
36) 1,2-Dichloropropane-d6	9.58	67	1116970	5.01	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 100.20%			
41) Toluene-d8	11.10	98	3640698	5.29	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 105.80%			
43) trans-1,3-Dichloropropene-	11.84	79	1046149	5.38	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 107.60%			
47) 2-Hexanone-d5	13.14	63	749686	66.83	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 133.66%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	599032	5.65	ug/L	0.03
Spiked Amount 5.000	Range 73 - 125		Recovery = 113.00%			
63) 1,2-Dichlorobenzene-d4	18.42	152	1114931	5.13	ug/L	0.03
Spiked Amount 5.000	Range 80 - 131		Recovery = 102.60%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	905644	4.16	ug/L	98
3) Chloromethane	2.14	50	1170951	4.15	ug/L	96
5) Vinyl Chloride	2.25	62	1101192	4.27	ug/L	98
6) Bromomethane	2.65	94	414744	3.91	ug/L	97
8) Chloroethane	2.83	64	477533	4.29	ug/L	99
9) Trichlorofluoromethane	3.02	101	1779983	4.71	ug/L	99
11) 1,1-Dichloroethene	3.74	96	796667	4.22	ug/L #	37
12) 1,1,2-Trichloro-1,2,2-trif	3.83	101	928992	4.41	ug/L	95
13) Acetone	4.79	43	921838	42.89	ug/L	98
14) Carbon Disulfide	3.73	76	2703133	4.16	ug/L	99
15) Methyl acetate	5.03	43	289167	4.21	ug/L	96
16) Methylene Chloride	4.68	84	799384	4.02	ug/L	99
17) trans-1,2-Dichloroethene	4.92	96	802240	3.94	ug/L	98
18) Methyl tert-Butyl Ether	5.16	73	1105226	3.92	ug/L	98
19) 1,1-Dichloroethane	5.89	63	1660404	4.14	ug/L	98
20) cis-1,2-Dichloroethene	6.73	96	795488	4.06	ug/L	99
22) 2-Butanone	7.67	43	1486190	43.01	ug/L	93
23) Bromochloromethane	7.02	128	332730	4.39	ug/L	93
25) Chloroform	7.18	83	1569458	4.28	ug/L	99
27) 1,2-Dichloroethane	8.33	62	883689	4.24	ug/L	100
29) 1,1,1-Trichloroethane	7.45	97	1357948	4.24	ug/L	97
30) Cyclohexane	7.00	56	1733777	4.39	ug/L	98
31) Carbon tetrachloride	7.33	117	1175374	4.39	ug/L	98

0537

Data File: C:\MSDChem\1\DATA\A17024.D
Acq On : 11/26/08 16:47 Operator: SB
Sample : VSTD00524 Inst : A-5973
Misc : VSTD00524 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 17:14:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 14:44:20 2008
Response via : Initial Calibration

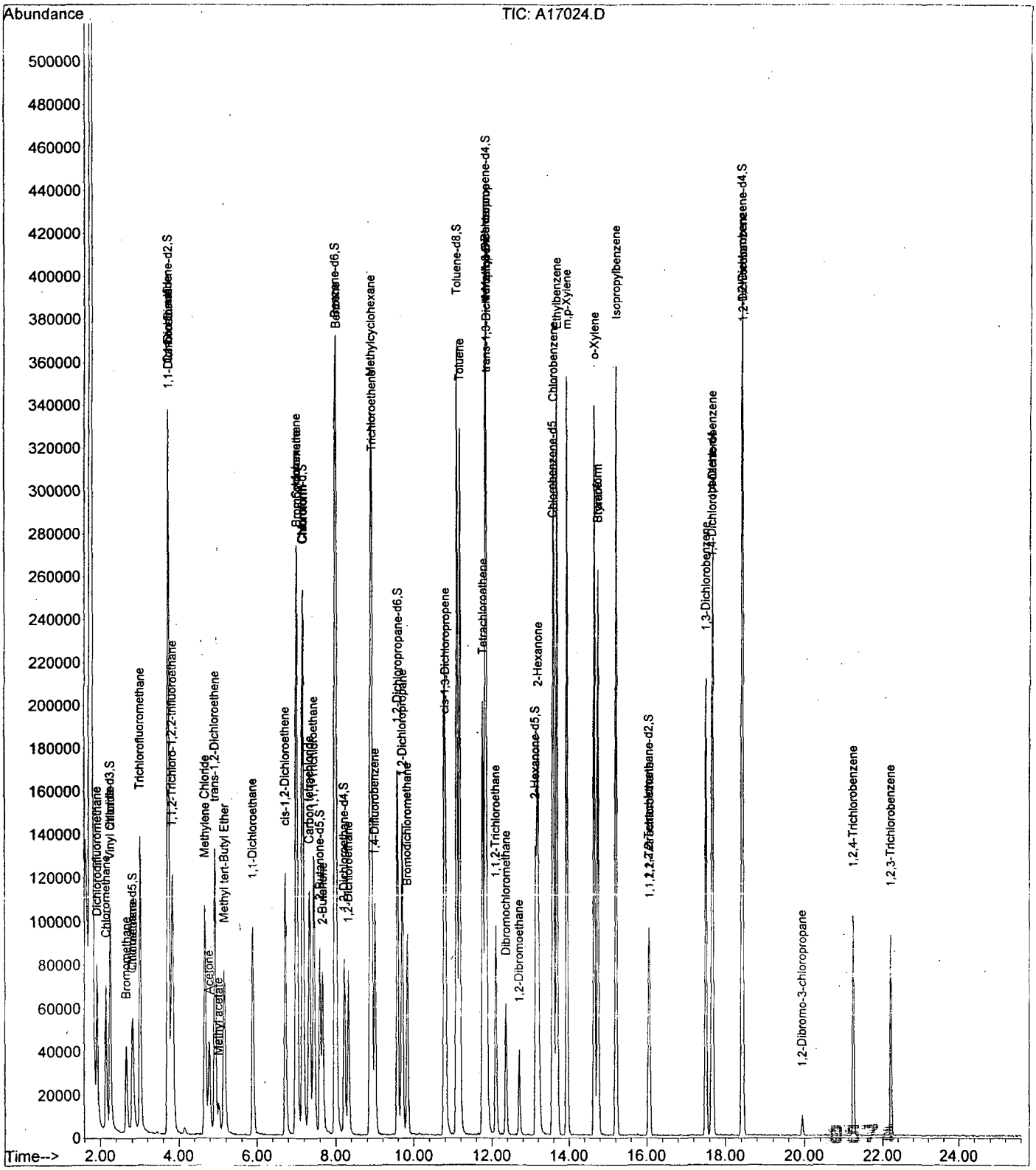
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.01	78	3535538	4.33	ug/L		100
34) Trichloroethene	8.92	95	1102058	5.10	ug/L		92
35) Methylcyclohexane	8.88	83	1399309	4.29	ug/L		96
37) 1,2-Dichloropropane	9.70	63	829791	4.13	ug/L		99
38) Bromodichloromethane	9.83	83	926598	4.31	ug/L		99
39) cis-1,3-Dichloropropene	10.81	75	1128962	4.40	ug/L		100
40) 4-Methyl-2-Pentanone	11.83	43	3336434	53.40	ug/L		99
42) Toluene	11.18	91	3653502	4.40	ug/L		100
44) trans-1,3-Dichloropropene	11.86	75	909505	4.74	ug/L		98
45) 1,1,2-Trichloroethane	12.10	97	447207	4.39	ug/L		99
46) Tetrachloroethene	11.76	164	702196	4.28	ug/L		94
48) 2-Hexanone	13.19	43	2322674	57.00	ug/L		99
49) Dibromochloromethane	12.37	129	517402	4.62	ug/L		98
50) 1,2-Dibromoethane	12.71	107	389854	4.26	ug/L	#	96
51) Chlorobenzene	13.60	112	2182802	4.37	ug/L		96
52) Ethylbenzene	13.68	91	3945530	4.42	ug/L		98
53) m,p-Xylene	13.94	106	1472740	4.46	ug/L		97
54) o-Xylene	14.65	106	1358472	4.51	ug/L		95
55) Styrene	14.75	104	1681731	4.71	ug/L	#	100
56) Isopropylbenzene	15.21	105	3606148	4.62	ug/L		98
58) 1,1,2,2-Tetrachloroethane	16.07	83	421550	4.47	ug/L	#	98
60) Bromoform	14.74	173	251217	4.09	ug/L	#	95
61) 1,3-Dichlorobenzene	17.51	146	1364364	3.95	ug/L		96
62) 1,4-Dichlorobenzene	17.68	146	1478261	4.17	ug/L		95
64) 1,2-Dichlorobenzene	18.44	146	1245776	4.18	ug/L		97
65) 1,2-Dibromo-3-chloropropan	19.95	75	37394	4.46	ug/L	#	67
66) 1,2,4-Trichlorobenzene	21.25	180	516079	4.45	ug/L	#	94
67) 1,2,3-Trichlorobenzene	22.23	180	460043	4.62	ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0573

Data File: C:\MSDChem\1\DATA\A17024.D
Acq On : 11/26/08 16:47 Operator: SB
Sample : VSTD00524 Inst : A-5973
Misc : VSTD00524 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 17:14:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 14:44:20 2008
Response via : Initial Calibration



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 1735

Lab File ID: A17026 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No. (VSTD#####): VSTD00525 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.7925	0.010	-11.6	40.0
Chloromethane	1.1620	1.0556	0.010	-9.2	40.0
Vinyl chloride	1.0637	0.9157	0.100	-13.9	30.0
Bromomethane	0.4374	0.3960	0.100	-9.5	30.0
Chloroethane	0.4582	0.4547	0.010	-0.8	40.0
Trichlorofluoromethane	1.5559	1.4845	0.010	-4.6	40.0
1,1-Dichloroethene	0.7782	0.7091	0.100	-8.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.7859	0.010	-9.5	40.0
Acetone	0.0886	0.0804	0.010	-9.3	40.0
Carbon disulfide	2.6778	2.3444	0.010	-12.5	40.0
Methyl acetate	0.2832	0.2360	0.010	-16.7	40.0
Methylene chloride	0.8201	0.7003	0.010	-14.6	40.0
trans-1,2-Dichloroethene	0.8380	0.7003	0.010	-16.4	40.0
Methyl tert-butyl ether	1.1612	0.9342	0.010	-19.5	40.0
1,1-Dichloroethane	1.6519	1.4322	0.200	-13.3	30.0
cis-1,2-Dichloroethene	0.8075	0.7147	0.010	-11.5	40.0
2-Butanone	0.1424	0.1281	0.010	-10.0	40.0
Bromochloromethane	0.3122	0.2926	0.050	-6.3	30.0
Chloroform	1.5103	1.3342	0.200	-11.7	30.0
1,1,1-Trichloroethane	1.5726	1.3863	0.100	-11.8	30.0
Cyclohexane	1.9410	1.7256	0.010	-11.1	40.0
Carbon tetrachloride	1.3146	1.1826	0.100	-10.0	30.0
Benzene	4.0083	3.5676	0.400	-11.0	30.0
1,2-Dichloroethane	0.8593	0.7489	0.100	-12.8	30.0
Trichloroethene	1.0625	1.0785	0.300	1.5	30.0
Methylcyclohexane	1.6024	1.4175	0.010	-11.5	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 1735

Lab File ID: A17026 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00525 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.8550	0.010	-13.5	40.0
Bromodichloromethane	1.0560	0.9211	0.200	-12.8	30.0
cis-1,3-Dichloropropene	1.2608	1.1058	0.200	-12.3	30.0
4-Methyl-2-pentanone	0.3070	0.3340	0.010	8.8	40.0
Toluene	4.0807	3.6529	0.400	-10.5	30.0
trans-1,3-Dichloropropene	0.9434	0.8806	0.100	-6.7	30.0
1,1,2-Trichloroethane	0.5007	0.4459	0.100	-10.9	30.0
Tetrachloroethene	0.8068	0.7256	0.100	-10.1	30.0
2-Hexanone	0.2002	0.2218	0.010	10.8	40.0
Dibromochloromethane	0.5508	0.5096	0.100	-7.5	30.0
1,2-Dibromoethane	0.4498	0.3928	0.010	-12.7	40.0
Chlorobenzene	2.4556	2.2295	0.500	-9.2	30.0
Ethylbenzene	4.3868	3.9876	0.100	-9.1	30.0
o-Xylene	1.4791	1.3240	0.300	-10.5	30.0
m,p-Xylene	1.6215	1.4989	0.300	-7.6	30.0
Styrene	1.7543	1.6534	0.300	-5.8	30.0
Bromoform	0.6426	0.5301	0.050	-17.5	30.0
Isopropylbenzene	3.8318	3.4976	0.010	-8.7	40.0
1,1,2,2-Tetrachloroethane	0.4635	0.4144	0.100	-10.6	30.0
1,3-Dichlorobenzene	3.6102	2.9827	0.400	-17.4	30.0
1,4-Dichlorobenzene	3.7048	3.1817	0.400	-14.1	30.0
1,2-Dichlorobenzene	3.1207	2.6767	0.400	-14.2	30.0
1,2-Dibromo-3-chloropropane	0.0878	0.0824	0.010	-6.2	40.0
1,2,4-Trichlorobenzene	1.2131	1.2680	0.200	4.5	30.0
1,2,3-Trichlorobenzene	1.0409	1.3901	0.200	33.5	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/26/2008 Time: 1735

Lab File ID: A17026 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00525 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.5172	0.010	-20.6	30.0
Chloroethane-d5	0.3855	0.3651	0.010	-5.3	40.0
1,1-Dichloroethene-d2	1.6048	1.3164	0.010	-18.0	30.0
2-Butanone-d5	0.1171	0.1356	0.010	15.8	40.0
Chloroform-d	1.7689	1.5034	0.010	-15.0	30.0
1,2-Dichloroethane-d4	0.7067	0.6007	0.010	-15.0	30.0
Benzene-d6	3.6878	3.0945	0.010	-16.1	30.0
1,2-Dichloropropane-d6	1.0957	0.9162	0.010	-16.4	40.0
Toluene-d8	3.3790	2.9366	0.010	-13.1	30.0
trans-1,3-Dichloropropene-d4	0.9551	0.8555	0.010	-10.4	30.0
2-Hexanone-d5	0.0551	0.0714	0.010	29.6	40.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.4869	0.010	-6.5	30.0
1,2-Dichlorobenzene-d4	2.2728	1.9117	0.010	-15.9	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 10:14:52 2008
Response Via : Initial Calibration

CC Data File: A17026.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	78
2		Dichlorodifluoromethane	0.896	0.793	11.6	69
3		Chloromethane	1.162	1.056	9.2	75
4	S	Vinyl chloride-d3	0.652	0.517	20.6	61
5		Vinyl Chloride	1.064	0.916	13.9	67
6		Bromomethane	0.437	0.396	9.5	72
7	S	Chloroethane-d5	0.385	0.365	5.3	67
8		Chloroethane	0.458	0.455	0.8	77
9		Trichlorofluoromethane	1.556	1.485	4.6	75
10	S	1,1-Dichloroethene-d2	1.605	1.316	18.0	62
11		1,1-Dichloroethene	0.778	0.709	8.9	72
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.786	9.5	71
13		Acetone	0.089	0.080	9.2	75
14		Carbon Disulfide	2.678	2.344	12.5	68
15		Methyl acetate	0.283	0.236	16.6	67
16		Methylene Chloride	0.820	0.700	14.6	70
17		trans-1,2-Dichloroethene	0.838	0.700	16.4	66
18		Methyl tert-Butyl Ether	1.161	0.934	19.5	63
19		1,1-Dichloroethane	1.652	1.432	13.3	67
20		cis-1,2-Dichloroethene	0.807	0.715	11.5	72
21	S	2-Butanone-d5	0.117	0.136	-15.8	89
22		2-Butanone	0.142	0.128	10.0	73
23		Bromochloromethane	0.312	0.293	6.3	73
24	S	Chloroform-d	1.769	1.503	15.0	68
25		Chloroform	1.510	1.334	11.7	71
26	S	1,2-Dichloroethane-d4	0.707	0.601	15.0	63
27		1,2-Dichloroethane	0.859	0.749	12.8	69
28		Chlorobenzene-d5	1.000	1.000	0.0	78
29		1,1,1-Trichloroethane	1.573	1.386	11.8	70
30		Cyclohexane	1.941	1.726	11.1	65
31		Carbon tetrachloride	1.315	1.183	10.0	71
32	S	Benzene-d6	3.688	3.094	16.1	61
33		Benzene	4.008	3.568	11.0	69
34		Trichloroethene	1.062	1.079	-1.5	76
35		Methylcyclohexane	1.602	1.418	11.5	66
36	S	1,2-Dichloropropane-d6	1.096	0.916	16.4	62
37		1,2-Dichloropropane	0.988	0.855	13.5	69
38		Bromodichloromethane	1.056	0.921	12.8	68
39		cis-1,3-Dichloropropene	1.261	1.106	12.3	66
40		4-Methyl-2-Pentanone	0.307	0.334	-8.8	79
41	S	Toluene-d8	3.379	2.937	13.1	62
42		Toluene	4.081	3.653	10.5	69
43	S	trans-1,3-Dichloropropene-d4	0.955	0.856	10.4	63
44		trans-1,3-Dichloropropene	0.943	0.881	6.7	68
45		1,1,2-Trichloroethane	0.501	0.446	10.9	71
46		Tetrachloroethene	0.807	0.726	10.1	72
47	S	2-Hexanone-d5	0.055	0.071	-29.5#	95
48		2-Hexanone	0.200	0.222	-10.8	77
49		Dibromochloromethane	0.551	0.510	7.5	70
50		1,2-Dibromoethane	0.450	0.393	12.7	67
51		Chlorobenzene	2.456	2.230	9.2	72
52		Ethylbenzene	4.387	3.988	9.1	69
53		m,p-Xylene	1.622	1.499	7.6	68
54		o-Xylene	1.479	1.324	10.5	66
55		Styrene	1.754	1.653	5.8	68
56		Isopropylbenzene	3.832	3.498	8.7	66

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 10:14:52 2008
Response Via : Initial Calibration

CC Data File: A17026.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.487	6.5	68
58		1,1,2,2-Tetrachloroethane	0.464	0.414	10.6	71
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80
60		Bromoform	0.643	0.530	17.5	68
61		1,3-Dichlorobenzene	3.610	2.983	17.4	68
62		1,4-Dichlorobenzene	3.705	3.182	14.1	69
63	S	1,2-Dichlorobenzene-d4	2.273	1.912	15.9	64
64		1,2-Dichlorobenzene	3.121	2.677	14.2	70
65		1,2-Dibromo-3-chloropropane	0.088	0.082	6.1	64
66		1,2,4-Trichlorobenzene	1.213	1.268	-4.5	96
67		1,2,3-Trichlorobenzene	1.041	1.390	-33.5#	155#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0579

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17026.D
Acq On : 11/26/08 17:35
Sample : VSTD00525
Misc : VSTD00525 25ML
ALS Vial : 2 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38045 SDG: G3EH6
Episode: S-2029 Init/date: 11/28/08

Quant Time: Nov 28 10:13:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1108988	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	927923	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	423583	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	573574	3.97	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 79.40%			
7) Chloroethane-d5	2.80	69	404841	4.74	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 94.80%			
10) 1,1-Dichloroethene-d2	3.73	63	1459921	4.10	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 82.00%			
21) 2-Butanone-d5	7.60	46	1503975	57.88	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 115.76%			
24) Chloroform-d	7.16	84	1667237	4.25	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 85.00%			
26) 1,2-Dichloroethane-d4	8.23	65	666197	4.25	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 85.00%			
32) Benzene-d6	7.98	84	2871446	4.20	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 84.00%			
36) 1,2-Dichloropropane-d6	9.59	67	850187	4.18	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 83.60%			
41) Toluene-d8	11.10	98	2724947	4.35	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 87.00%			
43) trans-1,3-Dichloropropene-	11.84	79	793855	4.48	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 89.60%			
47) 2-Hexanone-d5	13.14	63	662581	64.77	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 129.54%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	451784	4.67	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 93.40%			
63) 1,2-Dichlorobenzene-d4	18.42	152	809743	4.21	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 84.20%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	878873	4.42	ug/L	96
3) Chloromethane	2.14	50	1170667	4.54	ug/L	98
5) Vinyl Chloride	2.25	62	1015533	4.30	ug/L	97
6) Bromomethane	2.66	94	439151	4.53	ug/L	98
8) Chloroethane	2.83	64	504235	4.96	ug/L	99
9) Trichlorofluoromethane	3.02	101	1646344	4.77	ug/L	100
11) 1,1-Dichloroethene	3.74	96	786352	4.56	ug/L #	55
12) 1,1,2-Trichloro-1,2,2-trif	3.83	101	871585	4.52	ug/L	94
13) Acetone	4.79	43	891463	45.38	ug/L	98
14) Carbon Disulfide	3.73	76	2599940	4.38	ug/L	99
15) Methyl acetate	5.03	43	261729	4.17	ug/L	93
16) Methylene Chloride	4.67	84	776575	4.27	ug/L	99
17) trans-1,2-Dichloroethene	4.93	96	776664	4.18	ug/L	97
18) Methyl tert-Butyl Ether	5.17	73	1036055	4.02	ug/L	97
19) 1,1-Dichloroethane	5.89	63	1588315	4.34	ug/L	98
20) cis-1,2-Dichloroethene	6.73	96	792596	4.43	ug/L	97
22) 2-Butanone	7.67	43	1420743	44.99	ug/L	92
23) Bromochloromethane	7.03	128	324515	4.69	ug/L	87
25) Chloroform	7.18	83	1479612	4.42	ug/L	100
27) 1,2-Dichloroethane	8.33	62	830544	4.36	ug/L	100
29) 1,1,1-Trichloroethane	7.44	97	1286409	4.41	ug/L	95
30) Cyclohexane	7.01	56	1601261	4.45	ug/L	98
31) Carbon tetrachloride	7.34	117	1097329	4.50	ug/L	97

Data File: C:\MSDCHEM\1\DATA\A17026.D
Acq On : 11/26/08 17:35 Operator: SB
Sample : VSTD00525 Inst : A-5973
Misc : VSTD00525 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 10:13:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration

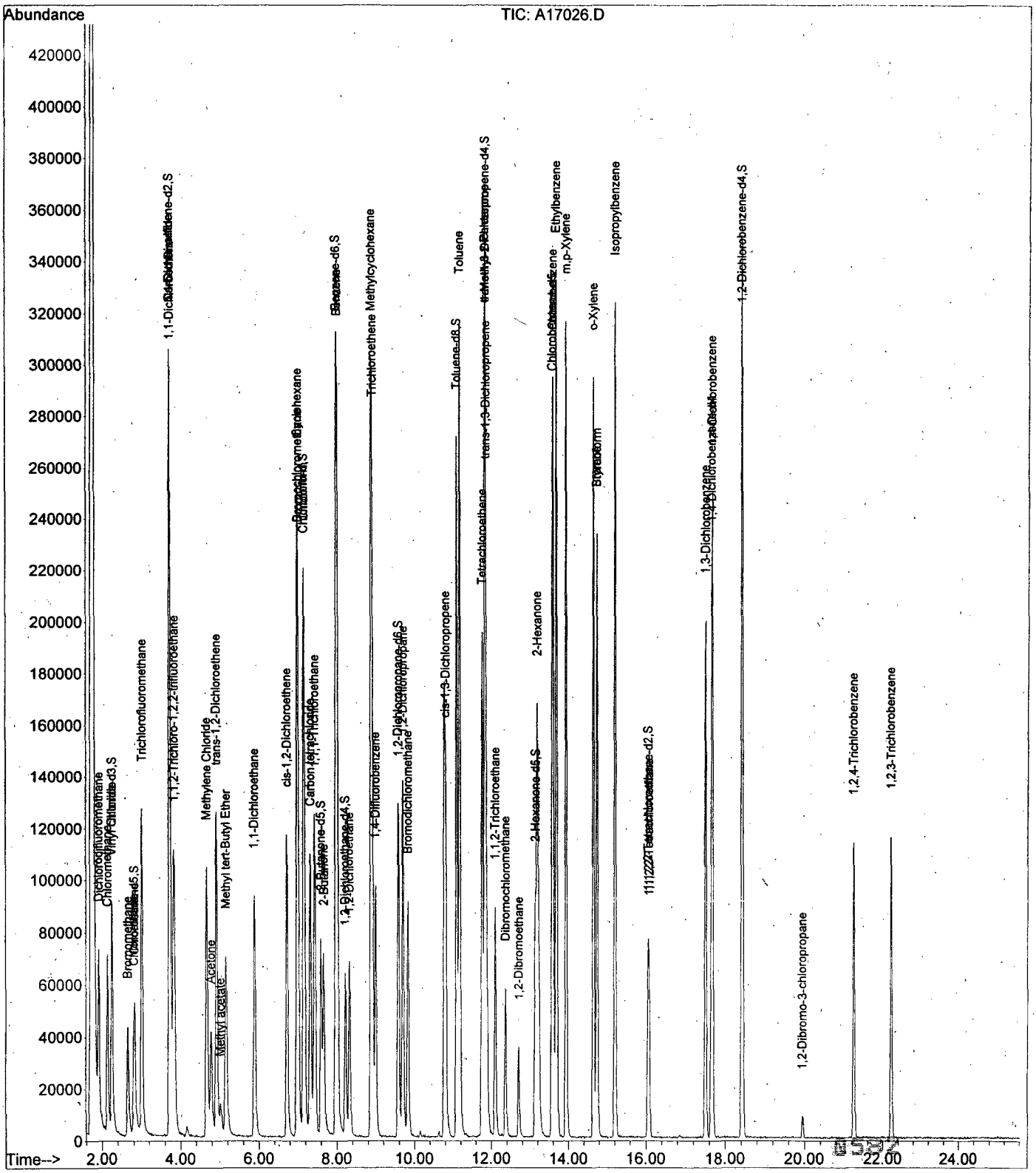
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.01	78	3310452	4.45	ug/L		100
34) Trichloroethene	8.92	95	1000796	5.08	ug/L		91
35) Methylcyclohexane	8.88	83	1315365	4.42	ug/L		95
37) 1,2-Dichloropropane	9.70	63	793352	4.33	ug/L		99
38) Bromodichloromethane	9.83	83	854752	4.36	ug/L		99
39) cis-1,3-Dichloropropene	10.81	75	1026117	4.39	ug/L		98
40) 4-Methyl-2-Pentanone	11.83	43	3098968	54.39	ug/L		94
42) Toluene	11.18	91	3389630	4.48	ug/L		100
44) trans-1,3-Dichloropropene	11.86	75	817097	4.67	ug/L		99
45) 1,1,2-Trichloroethane	12.10	97	413751	4.45	ug/L		95
46) Tetrachloroethene	11.77	164	673322	4.50	ug/L		94
48) 2-Hexanone	13.20	43	2058017	55.39	ug/L		99
49) Dibromochloromethane	12.37	129	472870	4.63	ug/L		98
50) 1,2-Dibromoethane	12.71	107	364460	4.37	ug/L	#	97
51) Chlorobenzene	13.60	112	2068842	4.54	ug/L		95
52) Ethylbenzene	13.69	91	3700210	4.54	ug/L		98
53) m,p-Xylene	13.94	106	1390892	4.62	ug/L		94
54) o-Xylene	14.65	106	1228537	4.48	ug/L		95
55) Styrene	14.75	104	1534262	4.71	ug/L	#	100
56) Isopropylbenzene	15.21	105	3245515	4.56	ug/L		97
58) 1,1,2,2-Tetrachloroethane	16.08	83	384503	4.47	ug/L		96
60) Bromoform	14.75	173	224558	4.12	ug/L	#	99
61) 1,3-Dichlorobenzene	17.51	146	1263436	4.13	ug/L		96
62) 1,4-Dichlorobenzene	17.68	146	1347703	4.29	ug/L		96
64) 1,2-Dichlorobenzene	18.43	146	1133805	4.29	ug/L		98
65) 1,2-Dibromo-3-chloropropan	19.95	75	34915	4.70	ug/L	#	73
66) 1,2,4-Trichlorobenzene	21.25	180	537087	5.23	ug/L		91
67) 1,2,3-Trichlorobenzene	22.22	180	588815	6.68	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0581

Data File: C:\MSDCHEM\1\DATA\A17026.D
Acq On : 11/26/08 17:35 Operator: SB
Sample : VSTD00525 Inst : A-5973
Misc : VSTD00525 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 10:13:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration



Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 11:35:57 2008
Response Via : Initial Calibration

CC Data File: A17041.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	84
2		Dichlorodifluoromethane	0.896	0.732	18.3	69
3		Chloromethane	1.162	1.009	13.2	77
4	S	Vinyl chloride-d3	0.652	0.486	25.4#	62
5		Vinyl Chloride	1.064	0.877	17.6	70
6		Bromomethane	0.437	0.329	24.7	65
7	S	Chloroethane-d5	0.385	0.317	17.7	63
8		Chloroethane	0.458	0.423	7.6	77
9		Trichlorofluoromethane	1.556	1.476	5.1	80
10	S	1,1-Dichloroethene-d2	1.605	1.232	23.2	63
11		1,1-Dichloroethene	0.778	0.671	13.8	74
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.757	12.8	74
13		Acetone	0.089	0.085	3.6	86
14		Carbon Disulfide	2.678	2.151	19.7	67
15		Methyl acetate	0.283	0.232	18.2	72
16		Methylene Chloride	0.820	0.645	21.3	70
17		trans-1,2-Dichloroethene	0.838	0.670	20.1	68
18		Methyl tert-Butyl Ether	1.161	0.903	22.2	66
19		1,1-Dichloroethane	1.652	1.357	17.9	69
20		cis-1,2-Dichloroethene	0.807	0.627	22.3	68
21	S	2-Butanone-d5	0.117	0.117	-0.1	84
22		2-Butanone	0.142	0.143	-0.3	88
23		Bromochloromethane	0.312	0.273	12.5	74
24	S	Chloroform-d	1.769	1.374	22.3	68
25		Chloroform	1.510	1.289	14.6	74
26	S	1,2-Dichloroethane-d4	0.707	0.584	17.4	67
27		1,2-Dichloroethane	0.859	0.716	16.6	72
28		Chlorobenzene-d5	1.000	1.000	0.0	87
29		1,1,1-Trichloroethane	1.573	1.289	18.0	73
30		Cyclohexane	1.941	1.629	16.1	69
31		Carbon tetrachloride	1.315	1.078	18.0	72
32	S	Benzene-d6	3.688	2.833	23.2	62
33		Benzene	4.008	3.324	17.1	72
34		Trichloroethene	1.062	0.881	17.1	69
35		Methylcyclohexane	1.602	1.306	18.5	68
36	S	1,2-Dichloropropane-d6	1.096	0.847	22.7	64
37		1,2-Dichloropropane	0.988	0.774	21.7	69
38		Bromodichloromethane	1.056	0.891	15.6	73
39		cis-1,3-Dichloropropene	1.261	1.028	18.4	68
40		4-Methyl-2-Pentanone	0.307	0.378	-23.0	100
41	S	Toluene-d8	3.379	2.756	18.5	65
42		Toluene	4.081	3.469	15.0	73
43	S	trans-1,3-Dichloropropene-d4	0.955	0.780	18.3	64
44		trans-1,3-Dichloropropene	0.943	0.802	15.0	69
45		1,1,2-Trichloroethane	0.501	0.437	12.7	77
46		Tetrachloroethene	0.807	0.665	17.6	74
47	S	2-Hexanone-d5	0.055	0.056	-2.0	83
48		2-Hexanone	0.200	0.255	-27.3#	98
49		Dibromochloromethane	0.551	0.480	12.9	74
50		1,2-Dibromoethane	0.450	0.381	15.3	73
51		Chlorobenzene	2.456	2.118	13.7	76
52		Ethylbenzene	4.387	3.867	11.8	74
53		m,p-Xylene	1.622	1.446	10.8	74
54		o-Xylene	1.479	1.289	12.8	72
55		Styrene	1.754	1.593	9.2	73
56		Isopropylbenzene	3.832	3.443	10.1	72

0583

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 11:35:57 2008
Response Via : Initial Calibration

CC Data File: A17041.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.458	12.1	72
58		1,1,2,2-Tetrachloroethane	0.464	0.402	13.3	77
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85
60		Bromoform	0.643	0.549	14.6	74
61		1,3-Dichlorobenzene	3.610	2.978	17.5	71
62		1,4-Dichlorobenzene	3.705	3.183	14.1	73
63	S	1,2-Dichlorobenzene-d4	2.273	1.966	13.5	70
64		1,2-Dichlorobenzene	3.121	2.714	13.0	75
65		1,2-Dibromo-3-chloropropane	0.088	0.076	12.9	62
66		1,2,4-Trichlorobenzene	1.213	1.052	13.2	84
67		1,2,3-Trichlorobenzene	1.041	0.979	6.0	115

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0584

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17041.D
Acq On : 11/27/08 03:08 Operator: SB
Sample : VSTD00526 Inst : A-5973
Misc : VSTD00526 25ML
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 28 11:35:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

ORIGINAL
Case: 38045 SDG: G3FH6
Episode: S-2029 Init/date: 12/1/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1201685	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1034830	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	447182	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	584093	3.73	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 74.60%			
7) Chloroethane-d5	2.80	69	381212	4.11	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 82.20%			
10) 1,1-Dichloroethene-d2	3.73	63	1480715	3.84	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 76.80%			
21) 2-Butanone-d5	7.60	46	1409673	50.07	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 100.14%			
24) Chloroform-d	7.16	84	1650735	3.88	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 77.60%#			
26) 1,2-Dichloroethane-d4	8.22	65	701797	4.13	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 82.60%			
32) Benzene-d6	7.98	84	2931394	3.84	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 76.80%#			
36) 1,2-Dichloropropane-d6	9.58	67	876232	3.86	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 77.20%#			
41) Toluene-d8	11.10	98	2851556	4.08	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 81.60%			
43) trans-1,3-Dichloropropene-	11.84	79	807148	4.08	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 81.60%			
47) 2-Hexanone-d5	13.14	63	582032	51.02	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 102.04%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	473809	4.40	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 88.00%			
63) 1,2-Dichlorobenzene-d4	18.42	152	878987	4.32	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 86.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	879693	4.08	ug/L	99
3) Chloromethane	2.14	50	1212294	4.34	ug/L	99
5) Vinyl Chloride	2.26	62	1053609	4.12	ug/L	100
6) Bromomethane	2.66	94	395868	3.77	ug/L	98
8) Chloroethane	2.83	64	508662	4.62	ug/L	99
9) Trichlorofluoromethane	3.02	101	1773976	4.74	ug/L	99
11) 1,1-Dichloroethene	3.74	96	805880	4.31	ug/L	98
12) 1,1,2-Trichloro-1,2,2-trif	3.83	101	909590	4.36	ug/L	98
13) Acetone	4.78	43	1025815	48.19	ug/L	97
14) Carbon Disulfide	3.73	76	2584825	4.02	ug/L	100
15) Methyl acetate	5.02	43	278261	4.09	ug/L	97
16) Methylene Chloride	4.68	84	775614	3.94	ug/L	96
17) trans-1,2-Dichloroethene	4.93	96	804824	4.00	ug/L	98
18) Methyl tert-Butyl Ether	5.16	73	1085187	3.89	ug/L	99
19) 1,1-Dichloroethane	5.90	63	1630433	4.11	ug/L	99
20) cis-1,2-Dichloroethene	6.73	96	754007	3.89	ug/L	94
22) 2-Butanone	7.67	43	1715314	50.13	ug/L	98
23) Bromochloromethane	7.03	128	328273	4.38	ug/L	92
25) Chloroform	7.18	83	1549463	4.27	ug/L	99
27) 1,2-Dichloroethane	8.33	62	860835	4.17	ug/L	100
29) 1,1,1-Trichloroethane	7.45	97	1333682	4.10	ug/L	98
30) Cyclohexane	7.00	56	1685275	4.20	ug/L	98
31) Carbon tetrachloride	7.33	117	1116011	4.10	ug/L	96

0525

Data File: C:\MSDCHEM\1\DATA\A17041.D
Acq On : 11/27/08 03:08 Operator: SB
Sample : VSTD00526 Inst : A-5973
Misc : VSTD00526 25ML
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 28 11:35:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

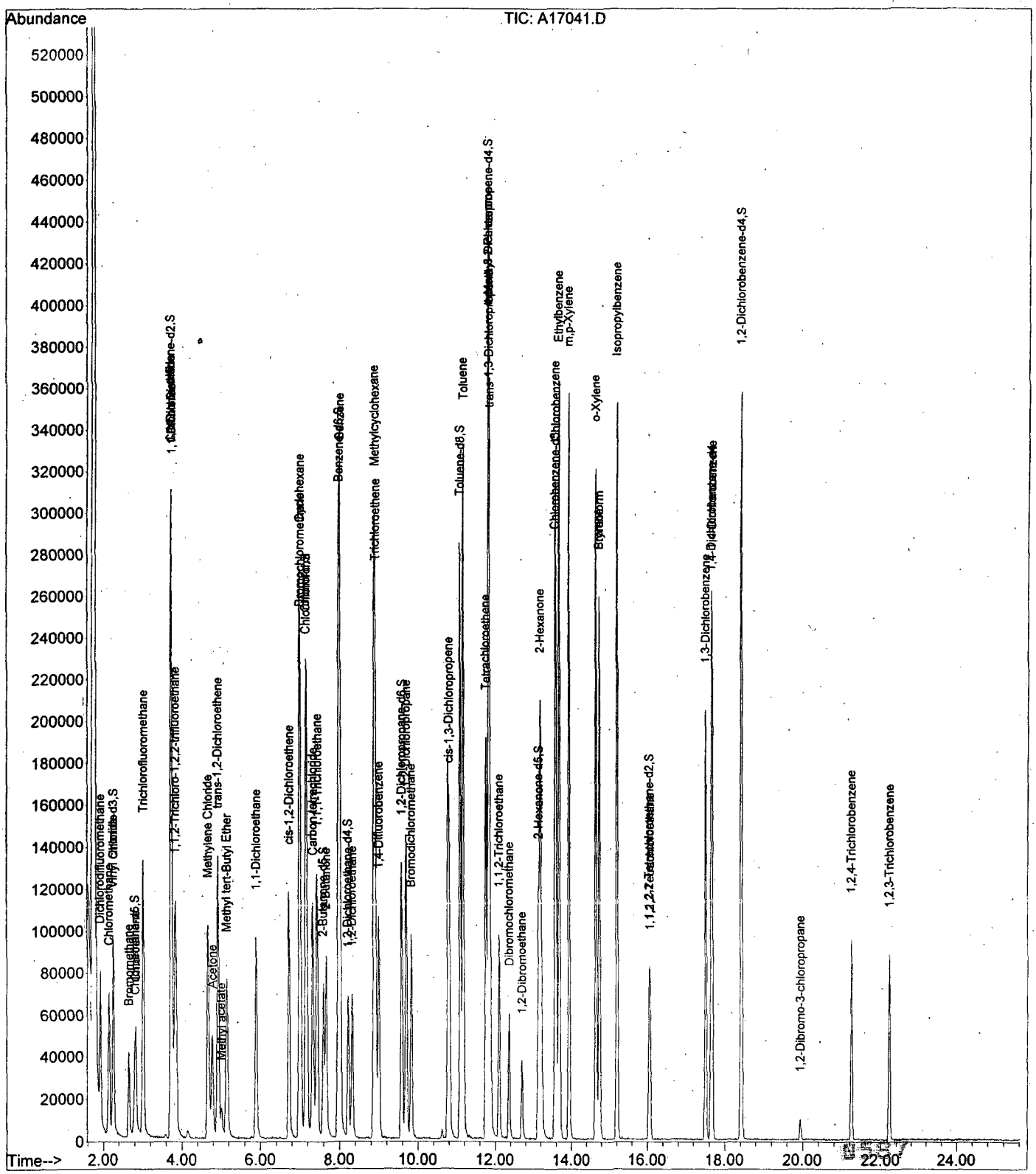
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	8.01	78	3439361	4.15	ug/L	100
34) Trichloroethene	8.92	95	911444	4.14	ug/L	98
35) Methylcyclohexane	8.88	83	1351641	4.08	ug/L	97
37) 1,2-Dichloropropane	9.70	63	801173	3.92	ug/L	99
38) Bromodichloromethane	9.83	83	921858	4.22	ug/L	99
39) cis-1,3-Dichloropropene	10.81	75	1064207	4.08	ug/L	98
40) 4-Methyl-2-Pentanone	11.83	43	3907761	61.50	ug/L	95
42) Toluene	11.18	91	3590331	4.25	ug/L	99
44) trans-1,3-Dichloropropene	11.86	75	829745	4.25	ug/L	99
45) 1,1,2-Trichloroethane	12.10	97	452191	4.36	ug/L	99
46) Tetrachloroethene	11.76	164	688132	4.12	ug/L	99
48) 2-Hexanone	13.19	43	2636888	63.63	ug/L	99
49) Dibromochloromethane	12.37	129	496681	4.36	ug/L	99
50) 1,2-Dibromoethane	12.70	107	394286	4.23	ug/L	100
51) Chlorobenzene	13.60	112	2191760	4.31	ug/L	99
52) Ethylbenzene	13.68	91	4001805	4.41	ug/L	99
53) m,p-Xylene	13.94	106	1496818	4.46	ug/L	99
54) o-Xylene	14.65	106	1334326	4.36	ug/L	98
55) Styrene	14.75	104	1648148	4.54	ug/L	100
56) Isopropylbenzene	15.21	105	3563279	4.49	ug/L	98
58) 1,1,2,2-Tetrachloroethane	16.07	83	415849	4.33	ug/L	99
60) Bromoform	14.74	173	245346	4.27	ug/L	95
61) 1,3-Dichlorobenzene	17.51	146	1331611	4.12	ug/L	99
62) 1,4-Dichlorobenzene	17.68	146	1423397	4.30	ug/L	100
64) 1,2-Dichlorobenzene	18.43	146	1213540	4.35	ug/L	99
65) 1,2-Dibromo-3-chloropropan	19.95	75	34208	4.36	ug/L	88
66) 1,2,4-Trichlorobenzene	21.25	180	470639	4.34	ug/L	98
67) 1,2,3-Trichlorobenzene	22.22	180	437684	4.70	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0586

Data File: C:\MSDCHEM\1\DATA\A17041.D
Acq On : 11/27/08 03:08 Operator: SB
Sample : VSTD00526 Inst : A-5973
Misc : VSTD00526 25ML
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 28 11:35:06 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 0308

Lab File ID: A17041 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00526 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.7320	0.010	-18.3	50.0
Chloromethane	1.1620	1.0088	0.010	-13.2	50.0
Vinyl chloride	1.0637	0.8768	0.010	-17.6	50.0
Bromomethane	0.4374	0.3294	0.010	-24.7	50.0
Chloroethane	0.4582	0.4233	0.010	-7.6	50.0
Trichlorofluoromethane	1.5559	1.4762	0.010	-5.1	50.0
1,1-Dichloroethene	0.7782	0.6706	0.010	-13.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.7569	0.010	-12.8	50.0
Acetone	0.0886	0.0854	0.010	-3.6	50.0
Carbon disulfide	2.6778	2.1510	0.010	-19.7	50.0
Methyl acetate	0.2832	0.2316	0.010	-18.2	50.0
Methylene chloride	0.8201	0.6454	0.010	-21.3	50.0
trans-1,2-Dichloroethene	0.8380	0.6697	0.010	-20.1	50.0
Methyl tert-butyl ether	1.1612	0.9031	0.010	-22.2	50.0
1,1-Dichloroethane	1.6519	1.3568	0.010	-17.9	50.0
cis-1,2-Dichloroethene	0.8075	0.6275	0.010	-22.3	50.0
2-Butanone	0.1424	0.1427	0.010	0.2	50.0
Bromochloromethane	0.3122	0.2732	0.010	-12.5	50.0
Chloroform	1.5103	1.2894	0.010	-14.6	50.0
1,1,1-Trichloroethane	1.5726	1.2888	0.010	-18.0	50.0
Cyclohexane	1.9410	1.6286	0.010	-16.1	50.0
Carbon tetrachloride	1.3146	1.0784	0.010	-18.0	50.0
Benzene	4.0083	3.3236	0.010	-17.1	50.0
1,2-Dichloroethane	0.8593	0.7164	0.010	-16.6	50.0
Trichloroethene	1.0625	0.8808	0.010	-17.1	50.0
Methylcyclohexane	1.6024	1.3061	0.010	-18.5	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 0308

Lab File ID: A17041 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00526 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.7742	0.010	-21.7	50.0
Bromodichloromethane	1.0560	0.8908	0.010	-15.6	50.0
cis-1,3-Dichloropropene	1.2608	1.0284	0.010	-18.4	50.0
4-Methyl-2-pentanone	0.3070	0.3776	0.010	23.0	50.0
Toluene	4.0807	3.4695	0.010	-15.0	50.0
trans-1,3-Dichloropropene	0.9434	0.8018	0.010	-15.0	50.0
1,1,2-Trichloroethane	0.5007	0.4370	0.010	-12.7	50.0
Tetrachloroethene	0.8068	0.6650	0.010	-17.6	50.0
2-Hexanone	0.2002	0.2548	0.010	27.3	50.0
Dibromochloromethane	0.5508	0.4800	0.010	-12.9	50.0
1,2-Dibromoethane	0.4498	0.3810	0.010	-15.3	50.0
Chlorobenzene	2.4556	2.1180	0.010	-13.7	50.0
Ethylbenzene	4.3868	3.8671	0.010	-11.8	50.0
o-Xylene	1.4791	1.2894	0.010	-12.8	50.0
m,p-Xylene	1.6215	1.4464	0.010	-10.8	50.0
Styrene	1.7543	1.5927	0.010	-9.2	50.0
Bromoform	0.6426	0.5486	0.010	-14.6	50.0
Isopropylbenzene	3.8318	3.4433	0.010	-10.1	50.0
1,1,2,2-Tetrachloroethane	0.4635	0.4019	0.010	-13.3	50.0
1,3-Dichlorobenzene	3.6102	2.9778	0.010	-17.5	50.0
1,4-Dichlorobenzene	3.7048	3.1830	0.010	-14.1	50.0
1,2-Dichlorobenzene	3.1207	2.7137	0.010	-13.0	50.0
1,2-Dibromo-3-chloropropane	0.0878	0.0765	0.010	-12.9	50.0
1,2,4-Trichlorobenzene	1.2131	1.0525	0.010	-13.2	50.0
1,2,3-Trichlorobenzene	1.0409	0.9788	0.010	-6.0	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 0308

Lab File ID: A17041 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00526 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.4861	0.010	-25.4	50.0
Chloroethane-d5	0.3855	0.3172	0.010	-17.7	50.0
1,1-Dichloroethene-d2	1.6048	1.2322	0.010	-23.2	50.0
2-Butanone-d5	0.1171	0.1173	0.010	0.2	50.0
Chloroform-d	1.7689	1.3737	0.010	-22.3	50.0
1,2-Dichloroethane-d4	0.7067	0.5840	0.010	-17.4	50.0
Benzene-d6	3.6878	2.8327	0.010	-23.2	50.0
1,2-Dichloropropane-d6	1.0957	0.8467	0.010	-22.7	50.0
Toluene-d8	3.3790	2.7556	0.010	-18.4	50.0
trans-1,3-Dichloropropene-d4	0.9551	0.7800	0.010	-18.3	50.0
2-Hexanone-d5	0.0551	0.0562	0.010	2.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.4579	0.010	-12.1	50.0
1,2-Dichlorobenzene-d4	2.2728	1.9656	0.010	-13.5	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 0713

Lab File ID: A17044 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00527 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.8143	0.010	-9.1	40.0
Chloromethane	1.1620	1.0793	0.010	-7.1	40.0
Vinyl chloride	1.0637	0.9980	0.100	-6.2	30.0
Bromomethane	0.4374	0.4027	0.100	-7.9	30.0
Chloroethane	0.4582	0.4571	0.010	-0.2	40.0
Trichlorofluoromethane	1.5559	1.5814	0.010	1.6	40.0
1,1-Dichloroethene	0.7782	0.7109	0.100	-8.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.8205	0.010	-5.5	40.0
Acetone	0.0886	0.0685	0.010	-22.7	40.0
Carbon disulfide	2.6778	2.4577	0.010	-8.2	40.0
Methyl acetate	0.2832	0.2258	0.010	-20.3	40.0
Methylene chloride	0.8201	0.6781	0.010	-17.3	40.0
trans-1,2-Dichloroethene	0.8380	0.7340	0.010	-12.4	40.0
Methyl tert-butyl ether	1.1612	0.8899	0.010	-23.4	40.0
1,1-Dichloroethane	1.6519	1.4431	0.200	-12.6	30.0
cis-1,2-Dichloroethene	0.8075	0.7042	0.010	-12.8	40.0
2-Butanone	0.1424	0.1087	0.010	-23.7	40.0
Bromochloromethane	0.3122	0.2755	0.050	-11.8	30.0
Chloroform	1.5103	1.3499	0.200	-10.6	30.0
1,1,1-Trichloroethane	1.5726	1.5213	0.100	-3.3	30.0
Cyclohexane	1.9410	1.9436	0.010	0.1	40.0
Carbon tetrachloride	1.3146	1.2906	0.100	-1.8	30.0
Benzene	4.0083	3.9057	0.400	-2.6	30.0
1,2-Dichloroethane	0.8593	0.7385	0.100	-14.1	30.0
Trichloroethene	1.0625	1.0643	0.300	0.2	30.0
Methylcyclohexane	1.6024	1.6547	0.010	3.3	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 0713

Lab File ID: A17044 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00527 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.8922	0.010	-9.7	40.0
Bromodichloromethane	1.0560	0.9831	0.200	-6.9	30.0
cis-1,3-Dichloropropene	1.2608	1.1839	0.200	-6.1	30.0
4-Methyl-2-pentanone	0.3070	0.3019	0.010	-1.7	40.0
Toluene	4.0807	4.0229	0.400	-1.4	30.0
trans-1,3-Dichloropropene	0.9434	0.8920	0.100	-5.4	30.0
1,1,2-Trichloroethane	0.5007	0.4596	0.100	-8.2	30.0
Tetrachloroethene	0.8068	0.8021	0.100	-0.6	30.0
2-Hexanone	0.2002	0.2093	0.010	4.5	40.0
Dibromochloromethane	0.5508	0.5237	0.100	-4.9	30.0
1,2-Dibromoethane	0.4498	0.4069	0.010	-9.5	40.0
Chlorobenzene	2.4556	2.3743	0.500	-3.3	30.0
Ethylbenzene	4.3868	4.3823	0.100	-0.1	30.0
o-Xylene	1.4791	1.4772	0.300	-0.1	30.0
m,p-Xylene	1.6215	1.6523	0.300	1.9	30.0
Styrene	1.7543	1.8087	0.300	3.1	30.0
Bromoform	0.6426	0.5223	0.050	-18.7	30.0
Isopropylbenzene	3.8318	3.9506	0.010	3.1	40.0
1,1,2,2-Tetrachloroethane	0.4635	0.4123	0.100	-11.0	30.0
1,3-Dichlorobenzene	3.6102	3.0892	0.400	-14.4	30.0
1,4-Dichlorobenzene	3.7048	3.3223	0.400	-10.3	30.0
1,2-Dichlorobenzene	3.1207	2.7133	0.400	-13.1	30.0
1,2-Dibromo-3-chloropropane	0.0878	0.0779	0.010	-11.3	40.0
1,2,4-Trichlorobenzene	1.2131	1.2057	0.200	-0.6	30.0
1,2,3-Trichlorobenzene	1.0409	1.0393	0.200	-0.2	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 0713

Lab File ID: A17044 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00527 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.5205	0.010	-20.1	30.0
Chloroethane-d5	0.3855	0.3528	0.010	-8.5	40.0
1,1-Dichloroethene-d2	1.6048	1.3678	0.010	-14.8	30.0
2-Butanone-d5	0.1171	0.1100	0.010	-6.1	40.0
Chloroform-d	1.7689	1.4911	0.010	-15.7	30.0
1,2-Dichloroethane-d4	0.7067	0.5817	0.010	-17.7	30.0
Benzene-d6	3.6878	3.3422	0.010	-9.4	30.0
1,2-Dichloropropane-d6	1.0957	0.9431	0.010	-13.9	40.0
Toluene-d8	3.3790	3.1789	0.010	-5.9	30.0
trans-1,3-Dichloropropene-d4	0.9551	0.8685	0.010	-9.1	30.0
2-Hexanone-d5	0.0551	0.0649	0.010	17.8	40.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.4593	0.010	-11.8	30.0
1,2-Dichlorobenzene-d4	2.2728	1.9504	0.010	-14.2	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report A-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 11:44:31 2008
Response Via : Initial Calibration

CC Data File: A17044.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	85
2		Dichlorodifluoromethane	0.896	0.814	9.1	77
3		Chloromethane	1.162	1.079	7.1	83
4	S	Vinyl chloride-d3	0.652	0.521	20.1	67
5		Vinyl Chloride	1.064	0.998	6.2	80
6		Bromomethane	0.437	0.403	7.9	80
7	S	Chloroethane-d5	0.385	0.353	8.5	71
8		Chloroethane	0.458	0.457	0.2	84
9		Trichlorofluoromethane	1.556	1.581	-1.6	87
10	S	1,1-Dichloroethene-d2	1.605	1.368	14.8	70
11		1,1-Dichloroethene	0.778	0.711	8.6	79
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.821	5.5	81
13		Acetone	0.089	0.068	22.7	69
14		Carbon Disulfide	2.678	2.458	8.2	77
15		Methyl acetate	0.283	0.226	20.2	70
16		Methylene Chloride	0.820	0.678	17.3	74
17		trans-1,2-Dichloroethene	0.838	0.734	12.4	75
18		Methyl tert-Butyl Ether	1.161	0.890	23.4	65
19		1,1-Dichloroethane	1.652	1.443	12.6	74
20		cis-1,2-Dichloroethene	0.807	0.704	12.8	77
21	S	2-Butanone-d5	0.117	0.110	6.1	79
22		2-Butanone	0.142	0.109	23.6	68
23		Bromochloromethane	0.312	0.275	11.8	75
24	S	Chloroform-d	1.769	1.491	15.7	74
25		Chloroform	1.510	1.350	10.6	78
26	S	1,2-Dichloroethane-d4	0.707	0.582	17.7	67
27		1,2-Dichloroethane	0.859	0.739	14.1	74
28		Chlorobenzene-d5	1.000	1.000	0.0	81
29		1,1,1-Trichloroethane	1.573	1.521	3.3	79
30		Cyclohexane	1.941	1.944	-0.1	76
31		Carbon tetrachloride	1.315	1.291	1.8	79
32	S	Benzene-d6	3.688	3.342	9.4	68
33		Benzene	4.008	3.906	2.6	78
34		Trichloroethene	1.062	1.064	-0.2	78
35		Methylcyclohexane	1.602	1.655	-3.3	79
36	S	1,2-Dichloropropane-d6	1.096	0.943	13.9	66
37		1,2-Dichloropropane	0.988	0.892	9.7	74
38		Bromodichloromethane	1.056	0.983	6.9	75
39		cis-1,3-Dichloropropene	1.261	1.184	6.1	73
40		4-Methyl-2-Pentanone	0.307	0.302	1.7	74
41	S	Toluene-d8	3.379	3.179	5.9	70
42		Toluene	4.081	4.023	1.4	78
43	S	trans-1,3-Dichloropropene-d4	0.955	0.869	9.1	66
44		trans-1,3-Dichloropropene	0.943	0.892	5.4	71
45		1,1,2-Trichloroethane	0.501	0.460	8.2	75
46		Tetrachloroethene	0.807	0.802	0.6	82
47	S	2-Hexanone-d5	0.055	0.065	-17.7	89
48		2-Hexanone	0.200	0.209	-4.5	74
49		Dibromochloromethane	0.551	0.524	4.9	75
50		1,2-Dibromoethane	0.450	0.407	9.5	72
51		Chlorobenzene	2.456	2.374	3.3	79
52		Ethylbenzene	4.387	4.382	0.1	78
53		m,p-Xylene	1.622	1.652	-1.9	78
54		o-Xylene	1.479	1.477	0.1	76
55		Styrene	1.754	1.809	-3.1	76
56		Isopropylbenzene	3.832	3.951	-3.1	77

0594

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 11:44:31 2008
Response Via : Initial Calibration

CC Data File: A17044.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.459	11.8	67
58		1,1,2,2-Tetrachloroethane	0.464	0.412	11.1	73
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86
60		Bromoform	0.643	0.522	18.7	71
61		1,3-Dichlorobenzene	3.610	3.089	14.4	75
62		1,4-Dichlorobenzene	3.705	3.322	10.3	77
63	S	1,2-Dichlorobenzene-d4	2.273	1.950	14.2	70
64		1,2-Dichlorobenzene	3.121	2.713	13.1	76
65		1,2-Dibromo-3-chloropropane	0.088	0.078	11.3	64
66		1,2,4-Trichlorobenzene	1.213	1.206	0.6	98
67		1,2,3-Trichlorobenzene	1.041	1.039	0.2	124

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0595

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17044.D
Acq On : 11/27/08 07:13
Sample : VSTD00527
Misc : VSTD00527 25ML
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 12/11/28/08

Quant Time: Nov 28 11:43:52 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1206454	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	957156	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	452618	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	628001	3.99	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 79.80%			
7) Chloroethane-d5	2.80	69	425639	4.58	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 91.60%			
10) 1,1-Dichloroethene-d2	3.72	63	1650200	4.26	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 85.20%			
21) 2-Butanone-d5	7.60	46	1327132	46.95	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 93.90%			
24) Chloroform-d	7.16	84	1798972	4.21	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 84.20%			
26) 1,2-Dichloroethane-d4	8.22	65	701820	4.12	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 82.40%			
32) Benzene-d6	7.98	84	3199036	4.53	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 90.60%			
36) 1,2-Dichloropropane-d6	9.58	67	902722	4.30	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 86.00%			
41) Toluene-d8	11.10	98	3042716	4.70	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 94.00%			
43) trans-1,3-Dichloropropene-	11.84	79	831315	4.55	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 91.00%			
47) 2-Hexanone-d5	13.14	63	620998	58.85	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 117.70%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	439646	4.41	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 88.20%			
63) 1,2-Dichlorobenzene-d4	18.42	152	882791	4.29	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 85.80%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	982466	4.54	ug/L	97
3) Chloromethane	2.14	50	1302146	4.64	ug/L	98
5) Vinyl Chloride	2.25	62	1204092	4.69	ug/L	98
6) Bromomethane	2.66	94	485793	4.60	ug/L	99
8) Chloroethane	2.82	64	551513	4.99	ug/L	99
9) Trichlorofluoromethane	3.01	101	1907911	5.08	ug/L	99
11) 1,1-Dichloroethene	3.73	96	857680	4.57	ug/L #	48
12) 1,1,2-Trichloro-1,2,2-trif	3.84	101	989927	4.72	ug/L	92
13) Acetone	4.78	43	826184	38.66	ug/L	97
14) Carbon Disulfide	3.73	76	2965060	4.59	ug/L	99
15) Methyl acetate	5.02	43	272458m	3.99	ug/L	
16) Methylene Chloride	4.67	84	818132	4.13	ug/L	98
17) trans-1,2-Dichloroethene	4.92	96	885531	4.38	ug/L	98
18) Methyl tert-Butyl Ether	5.16	73	1073682	3.83	ug/L	97
19) 1,1-Dichloroethane	5.89	63	1741036	4.37	ug/L	97
20) cis-1,2-Dichloroethene	6.73	96	849579	4.36	ug/L	99
22) 2-Butanone	7.67	43	1311462	38.18	ug/L	93
23) Bromochloromethane	7.02	128	332342	4.41	ug/L	93
25) Chloroform	7.18	83	1628573	4.47	ug/L	99
27) 1,2-Dichloroethane	8.32	62	891004	4.30	ug/L	99
29) 1,1,1-Trichloroethane	7.44	97	1456164	4.84	ug/L	96
30) Cyclohexane	7.00	56	1860298	5.01	ug/L	99
31) Carbon tetrachloride	7.33	117	1235305	4.91	ug/L	98

0536

Data File: C:\MSDCHEM\1\DATA\A17044.D
Acq On : 11/27/08 07:13 Operator: SB
Sample : VSTD00527 Inst : A-5973
Misc : VSTD00527 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 11:43:52 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration

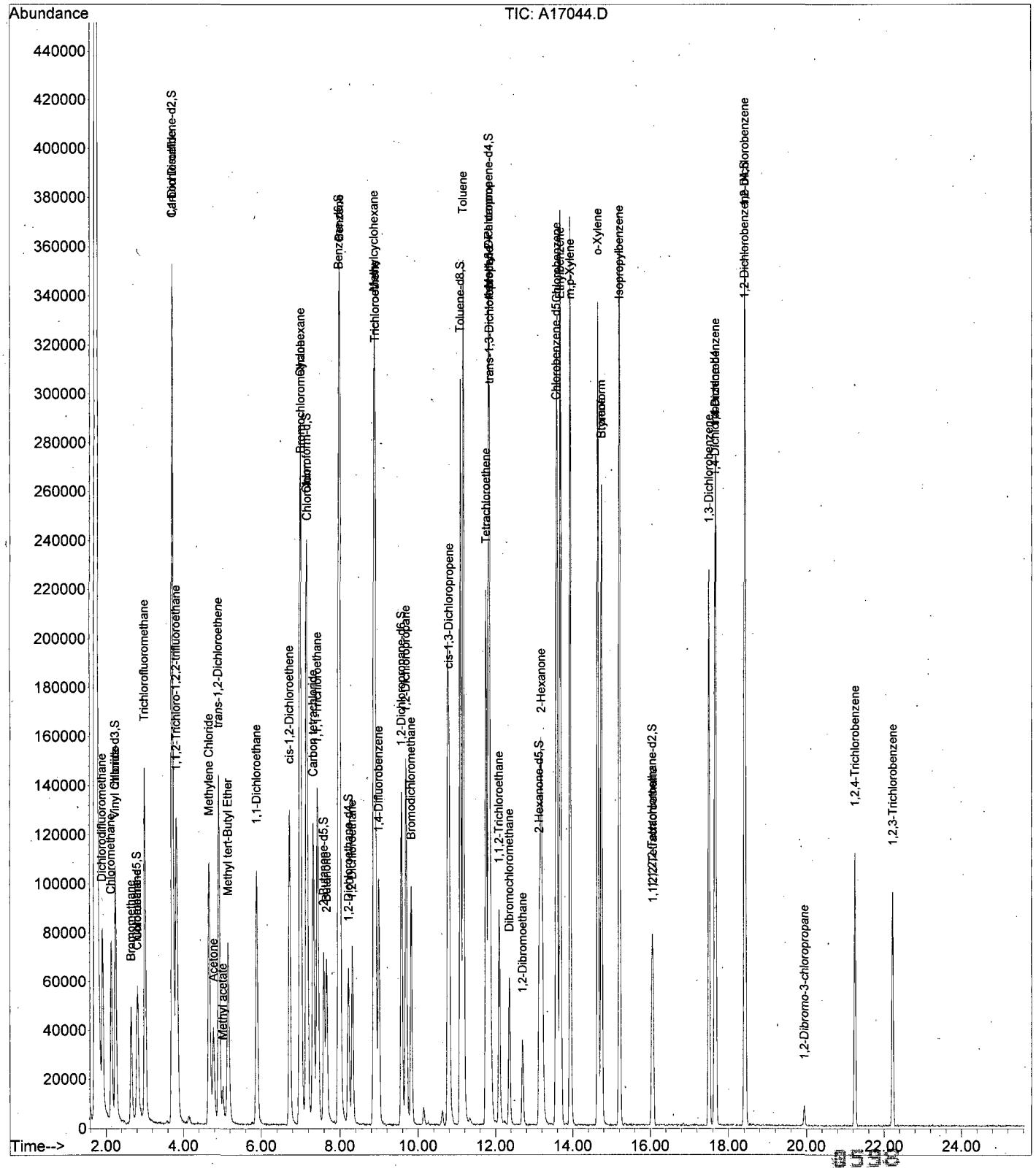
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.01	78	3738320	4.87	ug/L		100
34) Trichloroethene	8.91	95	1018732	5.01	ug/L		93
35) Methylcyclohexane	8.88	83	1583817	5.16	ug/L		98
37) 1,2-Dichloropropane	9.70	63	854009	4.51	ug/L	#	97
38) Bromodichloromethane	9.83	83	940969	4.65	ug/L		99
39) cis-1,3-Dichloropropene	10.81	75	1133193	4.70	ug/L		98
40) 4-Methyl-2-Pentanone	11.83	43	2889587	49.17	ug/L		99
42) Toluene	11.18	91	3850551	4.93	ug/L		99
44) trans-1,3-Dichloropropene	11.86	75	853799	4.73	ug/L		100
45) 1,1,2-Trichloroethane	12.10	97	439927	4.59	ug/L		93
46) Tetrachloroethene	11.76	164	767693	4.97	ug/L		94
48) 2-Hexanone	13.20	43	2002987	52.26	ug/L		98
49) Dibromochloromethane	12.36	129	501243	4.75	ug/L		98
50) 1,2-Dibromoethane	12.70	107	389507	4.52	ug/L		99
51) Chlorobenzene	13.60	112	2272604	4.83	ug/L		95
52) Ethylbenzene	13.68	91	4194532	4.99	ug/L		98
53) m,p-Xylene	13.94	106	1581499	5.09	ug/L		94
54) o-Xylene	14.65	106	1413922	4.99	ug/L		95
55) Styrene	14.75	104	1731185	5.15	ug/L	#	100
56) Isopropylbenzene	15.21	105	3781309	5.15	ug/L		97
58) 1,1,2,2-Tetrachloroethane	16.07	83	394619	4.45	ug/L		98
60) Bromoform	14.74	173	236399	4.06	ug/L	#	96
61) 1,3-Dichlorobenzene	17.51	146	1398207	4.28	ug/L		96
62) 1,4-Dichlorobenzene	17.68	146	1503753	4.48	ug/L		95
64) 1,2-Dichlorobenzene	18.43	146	1228106	4.35	ug/L		96
65) 1,2-Dibromo-3-chloropropan	19.95	75	35248	4.44	ug/L	#	81
66) 1,2,4-Trichlorobenzene	21.25	180	545744	4.97	ug/L	#	94
67) 1,2,3-Trichlorobenzene	22.22	180	470401	4.99	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0597

Data File: C:\MSDCHEM\1\DATA\A17044.D
Acq On : 11/27/08 07:13 Operator: SB
Sample : VSTD00527 Inst : A-5973
Misc : VSTD00527 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 11:43:52 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration

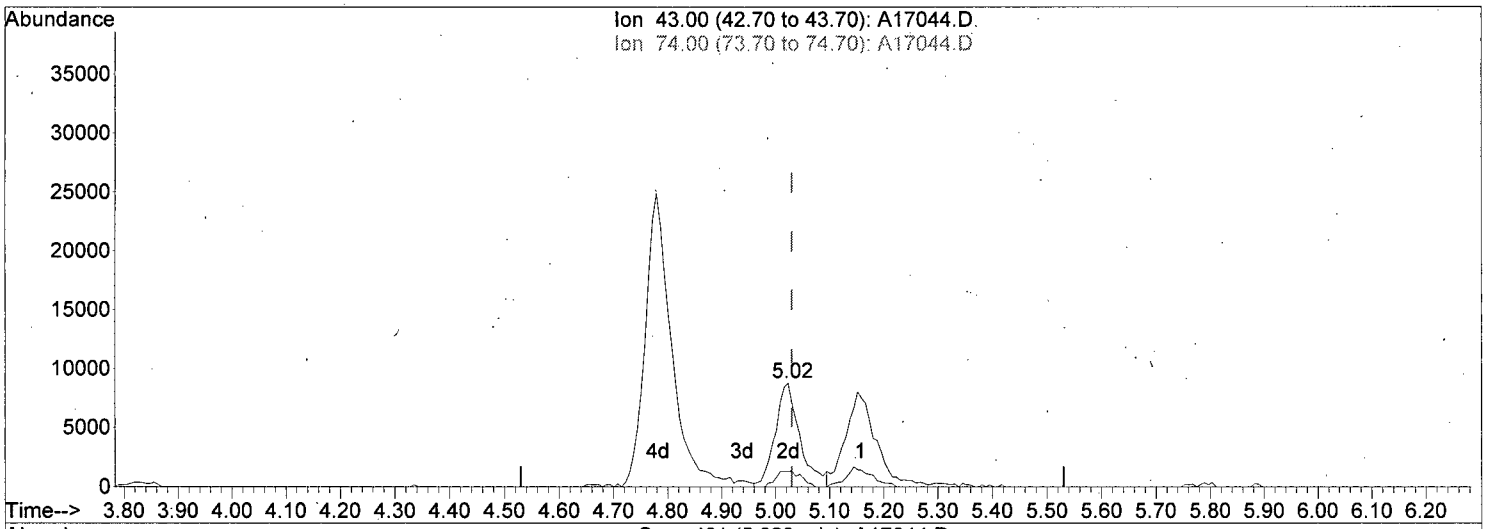


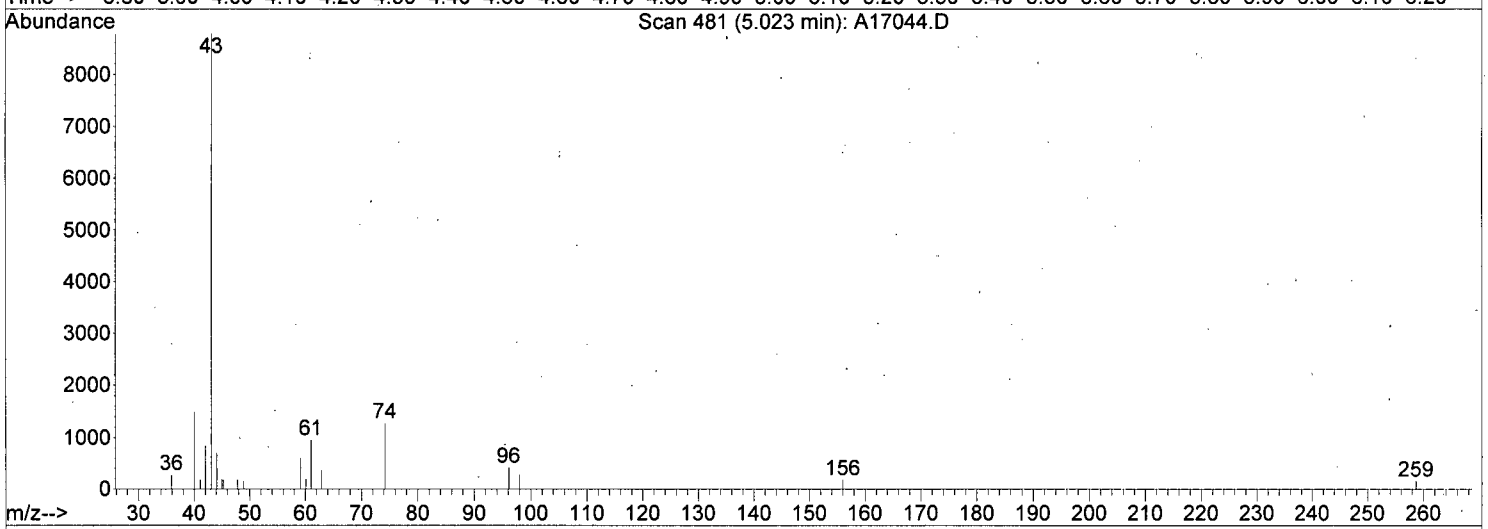
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\A17044.D
Acq On : 11/27/08 07:13 Operator: SB
Sample : VSTD00527 Inst : A-5973
Misc : VSTD00527 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 11:43:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 08:20:41 2008
Response via : Initial Calibration

11/28/08





TIC: A17044.D

(15) Methyl acetate

5.023min (-0.008) 3.99ug/L m

response 272458

Ion	Exp%	Act%
43.00	100	100
74.00	18.90	19.99
0.00	0.00	0.00
0.00	0.00	0.00

0599

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 1713

Lab File ID: A17061 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00528 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.7361	0.010	-17.9	50.0
Chloromethane	1.1620	1.0283	0.010	-11.5	50.0
Vinyl chloride	1.0637	0.8879	0.010	-16.5	50.0
Bromomethane	0.4374	0.3491	0.010	-20.2	50.0
Chloroethane	0.4582	0.4256	0.010	-7.1	50.0
Trichlorofluoromethane	1.5559	1.5027	0.010	-3.4	50.0
1,1-Dichloroethene	0.7782	0.6503	0.010	-16.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.7473	0.010	-14.0	50.0
Acetone	0.0886	0.0764	0.010	-13.8	50.0
Carbon disulfide	2.6778	2.1467	0.010	-19.8	50.0
Methyl acetate	0.2832	0.2323	0.010	-18.0	50.0
Methylene chloride	0.8201	0.6594	0.010	-19.6	50.0
trans-1,2-Dichloroethene	0.8380	0.6574	0.010	-21.6	50.0
Methyl tert-butyl ether	1.1612	0.9232	0.010	-20.5	50.0
1,1-Dichloroethane	1.6519	1.3743	0.010	-16.8	50.0
cis-1,2-Dichloroethene	0.8075	0.6548	0.010	-18.9	50.0
2-Butanone	0.1424	0.1239	0.010	-13.0	50.0
Bromochloromethane	0.3122	0.2847	0.010	-8.8	50.0
Chloroform	1.5103	1.2865	0.010	-14.8	50.0
1,1,1-Trichloroethane	1.5726	1.2984	0.010	-17.4	50.0
Cyclohexane	1.9410	1.6368	0.010	-15.7	50.0
Carbon tetrachloride	1.3146	1.1115	0.010	-15.4	50.0
Benzene	4.0083	3.3518	0.010	-16.4	50.0
1,2-Dichloroethane	0.8593	0.7400	0.010	-13.9	50.0
Trichloroethene	1.0625	0.9623	0.010	-9.4	50.0
Methylcyclohexane	1.6024	1.3024	0.010	-18.7	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 1713

Lab File ID: A17061 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00528 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.7745	0.010	-21.6	50.0
Bromodichloromethane	1.0560	0.8996	0.010	-14.8	50.0
cis-1,3-Dichloropropene	1.2608	1.0261	0.010	-18.6	50.0
4-Methyl-2-pentanone	0.3070	0.3305	0.010	7.7	50.0
Toluene	4.0807	3.5219	0.010	-13.7	50.0
trans-1,3-Dichloropropene	0.9434	0.8044	0.010	-14.7	50.0
1,1,2-Trichloroethane	0.5007	0.4309	0.010	-13.9	50.0
Tetrachloroethene	0.8068	0.6698	0.010	-17.0	50.0
2-Hexanone	0.2002	0.2310	0.010	15.4	50.0
Dibromochloromethane	0.5508	0.4848	0.010	-12.0	50.0
1,2-Dibromoethane	0.4498	0.3849	0.010	-14.4	50.0
Chlorobenzene	2.4556	2.1138	0.010	-13.9	50.0
Ethylbenzene	4.3868	3.8687	0.010	-11.8	50.0
o-Xylene	1.4791	1.3000	0.010	-12.1	50.0
m,p-Xylene	1.6215	1.4638	0.010	-9.7	50.0
Styrene	1.7543	1.6390	0.010	-6.6	50.0
Bromoform	0.6426	0.5643	0.010	-12.2	50.0
Isopropylbenzene	3.8318	3.4861	0.010	-9.0	50.0
1,1,2,2-Tetrachloroethane	0.4635	0.4085	0.010	-11.9	50.0
1,3-Dichlorobenzene	3.6102	2.8757	0.010	-20.3	50.0
1,4-Dichlorobenzene	3.7048	3.1477	0.010	-15.0	50.0
1,2-Dichlorobenzene	3.1207	2.6789	0.010	-14.2	50.0
1,2-Dibromo-3-chloropropane	0.0878	0.0780	0.010	-11.2	50.0
1,2,4-Trichlorobenzene	1.2131	1.1615	0.010	-4.3	50.0
1,2,3-Trichlorobenzene	1.0409	1.1274	0.010	8.3	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/27/2008 Time: 1713

Lab File ID: A17061 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00528 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.5019	0.010	-23.0	50.0
Chloroethane-d5	0.3855	0.3204	0.010	-16.9	50.0
1,1-Dichloroethene-d2	1.6048	1.2805	0.010	-20.2	50.0
2-Butanone-d5	0.1171	0.1402	0.010	19.7	50.0
Chloroform-d	1.7689	1.4790	0.010	-16.4	50.0
1,2-Dichloroethane-d4	0.7067	0.6221	0.010	-12.0	50.0
Benzene-d6	3.6878	2.9594	0.010	-19.8	50.0
1,2-Dichloropropane-d6	1.0957	0.8801	0.010	-19.7	50.0
Toluene-d8	3.3790	2.8897	0.010	-14.5	50.0
trans-1,3-Dichloropropene-d4	0.9551	0.8105	0.010	-15.1	50.0
2-Hexanone-d5	0.0551	0.0683	0.010	24.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.4769	0.010	-8.4	50.0
1,2-Dichlorobenzene-d4	2.2728	1.9884	0.010	-12.5	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report A-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 14:04:27 2008
Response Via : Initial Calibration

CC Data File: A17061.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	78
2		Dichlorodifluoromethane	0.896	0.736	17.9	64
3		Chloromethane	1.162	1.028	11.5	73
4	S	Vinyl chloride-d3	0.652	0.502	23.0	59
5		Vinyl Chloride	1.064	0.888	16.5	66
6		Bromomethane	0.437	0.349	20.2	64
7	S	Chloroethane-d5	0.385	0.320	16.9	60
8		Chloroethane	0.458	0.426	7.1	72
9		Trichlorofluoromethane	1.556	1.503	3.4	76
10	S	1,1-Dichloroethene-d2	1.605	1.281	20.2	61
11		1,1-Dichloroethene	0.778	0.650	16.4	67
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.747	14.0	68
13		Acetone	0.089	0.076	13.7	71
14		Carbon Disulfide	2.678	2.147	19.8	63
15		Methyl acetate	0.283	0.232	18.0	67
16		Methylene Chloride	0.820	0.659	19.6	67
17		trans-1,2-Dichloroethene	0.838	0.657	21.5	62
18		Methyl tert-Butyl Ether	1.161	0.923	20.5	63
19		1,1-Dichloroethane	1.652	1.374	16.8	65
20		cis-1,2-Dichloroethene	0.807	0.655	18.9	66
21	S	2-Butanone-d5	0.117	0.140	-19.7	93
22		2-Butanone	0.142	0.124	13.0	71
23		Bromochloromethane	0.312	0.285	8.8	72
24	S	Chloroform-d	1.769	1.479	16.4	68
25		Chloroform	1.510	1.287	14.8	69
26	S	1,2-Dichloroethane-d4	0.707	0.622	12.0	66
27		1,2-Dichloroethane	0.859	0.740	13.9	69
28		Chlorobenzene-d5	1.000	1.000	0.0	80
29		1,1,1-Trichloroethane	1.573	1.298	17.4	67
30		Cyclohexane	1.941	1.637	15.7	64
31		Carbon tetrachloride	1.315	1.111	15.5	68
32	S	Benzene-d6	3.688	2.959	19.8	60
33		Benzene	4.008	3.352	16.4	67
34		Trichloroethene	1.062	0.962	9.4	70
35		Methylcyclohexane	1.602	1.302	18.7	62
36	S	1,2-Dichloropropane-d6	1.096	0.880	19.7	61
37		1,2-Dichloropropane	0.988	0.774	21.6	64
38		Bromodichloromethane	1.056	0.900	14.8	68
39		cis-1,3-Dichloropropene	1.261	1.026	18.6	63
40		4-Methyl-2-Pentanone	0.307	0.331	-7.7	80
41	S	Toluene-d8	3.379	2.890	14.5	63
42		Toluene	4.081	3.522	13.7	68
43	S	trans-1,3-Dichloropropene-d4	0.955	0.811	15.1	61
44		trans-1,3-Dichloropropene	0.943	0.804	14.7	64
45		1,1,2-Trichloroethane	0.501	0.431	13.9	70
46		Tetrachloroethene	0.807	0.670	17.0	68
47	S	2-Hexanone-d5	0.055	0.068	-24.0	93
48		2-Hexanone	0.200	0.231	-15.4	82
49		Dibromochloromethane	0.551	0.485	12.0	69
50		1,2-Dibromoethane	0.450	0.385	14.4	68
51		Chlorobenzene	2.456	2.114	13.9	70
52		Ethylbenzene	4.387	3.869	11.8	69
53		m,p-Xylene	1.622	1.464	9.7	69
54		o-Xylene	1.479	1.300	12.1	67
55		Styrene	1.754	1.639	6.6	69
56		Isopropylbenzene	3.832	3.486	9.0	67

0603

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 14:04:27 2008
Response Via : Initial Calibration

CC Data File: A17061.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.477	8.4	69
58		1,1,2,2-Tetrachloroethane	0.464	0.409	11.9	72
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82
60		Bromoform	0.643	0.564	12.2	73
61		1,3-Dichlorobenzene	3.610	2.876	20.3	66
62		1,4-Dichlorobenzene	3.705	3.148	15.0	69
63	S	1,2-Dichlorobenzene-d4	2.273	1.988	12.5	68
64		1,2-Dichlorobenzene	3.121	2.679	14.2	72
65		1,2-Dibromo-3-chloropropane	0.088	0.078	11.2	61
66		1,2,4-Trichlorobenzene	1.213	1.161	4.3	90
67		1,2,3-Trichlorobenzene	1.041	1.127	-8.3	128

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0604

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17061.D
Acq On : 11/27/08 17:13
Sample : VSTD00528
Misc : VSTD00528 25ML
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Quant Time: Nov 28 14:03:04 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

ORIGINAL
Case: 38051 SDG: F2XE4
0
Episode: S-2066 Init/date: 12/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.01	114	1116569	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.58	117	953493	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.66	152	431194	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	560429	3.85	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 77.00%			
7) Chloroethane-d5	2.80	69	357709	4.16	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 83.20%			
10) 1,1-Dichloroethene-d2	3.73	63	1429822	3.99	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 79.80%			
21) 2-Butanone-d5	7.60	46	1565155	59.83	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 119.66%			
24) Chloroform-d	7.17	84	1651387	4.18	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 83.60%			
26) 1,2-Dichloroethane-d4	8.23	65	694653	4.40	ug/L	0.01
Spiked Amount 5.000	Range 78 - 129		Recovery = 88.00%			
32) Benzene-d6	7.98	84	2821812	4.01	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 80.20%			
36) 1,2-Dichloropropane-d6	9.59	67	839141	4.02	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 80.40%			
41) Toluene-d8	11.10	98	2755280	4.28	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 85.60%			
43) trans-1,3-Dichloropropene-	11.84	79	772835	4.24	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 84.80%			
47) 2-Hexanone-d5	13.15	63	651568	61.99	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 123.98%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	454744	4.58	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 91.60%			
63) 1,2-Dichlorobenzene-d4	18.43	152	857374	4.37	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 87.40%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	821884	4.11	ug/L	98
3) Chloromethane	2.14	50	1148114	4.42	ug/L	100
5) Vinyl Chloride	2.26	62	991352	4.17	ug/L	98
6) Bromomethane	2.66	94	389836	3.99	ug/L	97
8) Chloroethane	2.83	64	475228	4.64	ug/L	100
9) Trichlorofluoromethane	3.02	101	1677813	4.83	ug/L	99
11) 1,1-Dichloroethene	3.75	96	726134	4.18	ug/L #	49
12) 1,1,2-Trichloro-1,2,2-trif	3.84	101	834360	4.30	ug/L	93
13) Acetone	4.79	43	853256	43.14	ug/L	94
14) Carbon Disulfide	3.74	76	2396921	4.01	ug/L	100
15) Methyl acetate	5.03	43	259381	4.10	ug/L	98
16) Methylene Chloride	4.68	84	736250	4.02	ug/L	97
17) trans-1,2-Dichloroethene	4.94	96	734046	3.92	ug/L	99
18) Methyl tert-Butyl Ether	5.16	73	1030866	3.98	ug/L	95
19) 1,1-Dichloroethane	5.90	63	1534469	4.16	ug/L	98
20) cis-1,2-Dichloroethene	6.74	96	731158	4.05	ug/L	97
22) 2-Butanone	7.68	43	1382898	43.50	ug/L	95
23) Bromochloromethane	7.03	128	317908	4.56	ug/L	89
25) Chloroform	7.19	83	1436507	4.26	ug/L	98
27) 1,2-Dichloroethane	8.33	62	826222	4.31	ug/L	98
29) 1,1,1-Trichloroethane	7.45	97	1238047	4.13	ug/L	99
30) Cyclohexane	7.01	56	1560715	4.22	ug/L	99
31) Carbon tetrachloride	7.34	117	1059793	4.23	ug/L	98

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17061.D
Acq On : 11/27/08 17:13 Operator: SB
Sample : VSTD00528 Inst : A-5973
Misc : VSTD00528 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 14:03:04 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

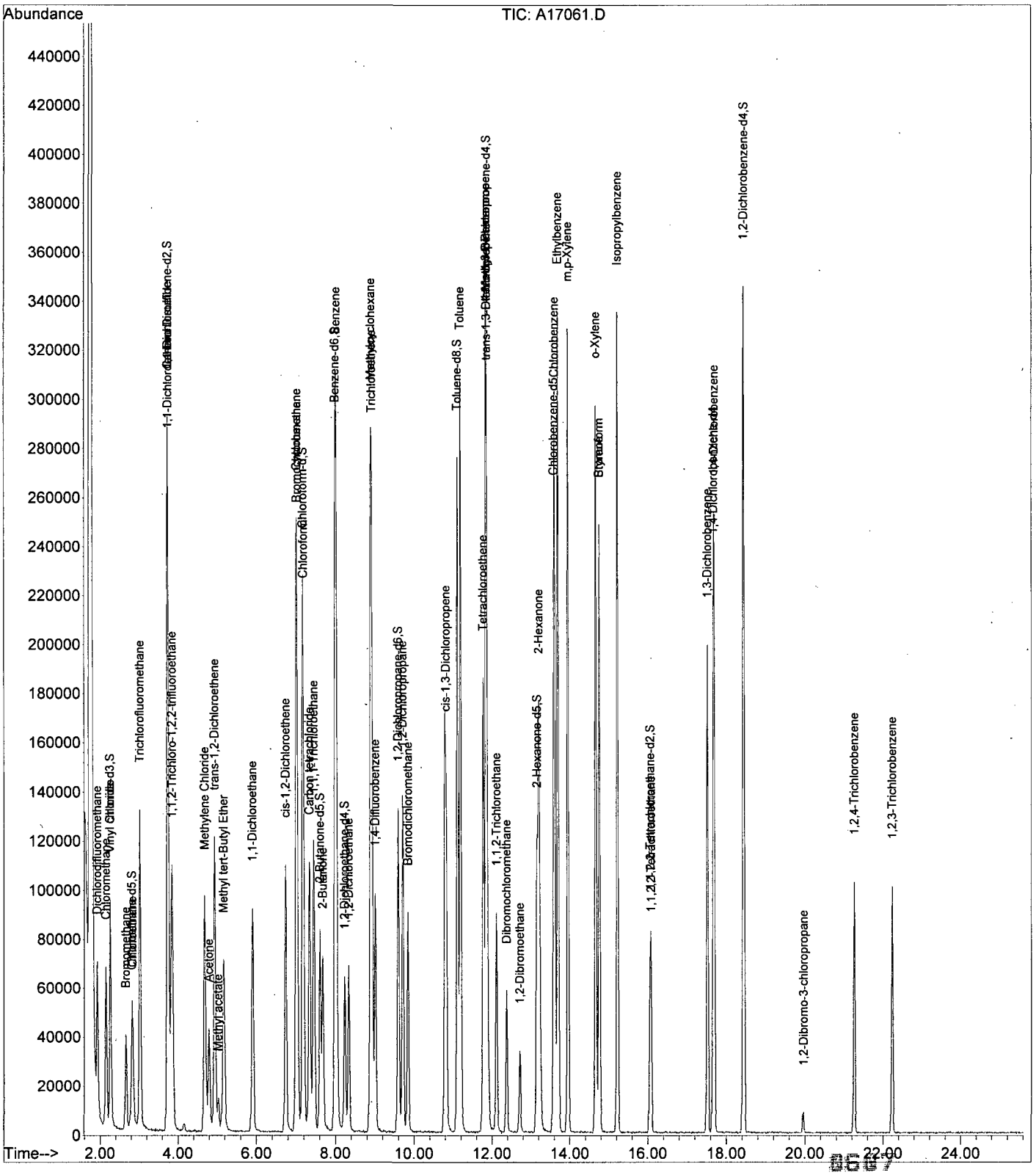
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.02	78	3195871	4.18	ug/L		100
34) Trichloroethene	8.92	95	917500	4.53	ug/L		93
35) Methylcyclohexane	8.89	83	1241870	4.06	ug/L		96
37) 1,2-Dichloropropane	9.71	63	738479	3.92	ug/L	#	98
38) Bromodichloromethane	9.83	83	857729	4.26	ug/L		97
39) cis-1,3-Dichloropropene	10.82	75	978358	4.07	ug/L		99
40) 4-Methyl-2-Pentanone	11.84	43	3151351	53.83	ug/L		98
42) Toluene	11.18	91	3358111	4.32	ug/L		100
44) trans-1,3-Dichloropropene	11.87	75	767009	4.26	ug/L		98
45) 1,1,2-Trichloroethane	12.11	97	410861	4.30	ug/L		97
46) Tetrachloroethene	11.77	164	638675	4.15	ug/L		96
48) 2-Hexanone	13.20	43	2202377	57.68	ug/L		98
49) Dibromochloromethane	12.37	129	462259	4.40	ug/L		96
50) 1,2-Dibromoethane	12.71	107	366995	4.28	ug/L	#	96
51) Chlorobenzene	13.60	112	2015446	4.30	ug/L		94
52) Ethylbenzene	13.69	91	3688758	4.41	ug/L		98
53) m,p-Xylene	13.95	106	1395741	4.51	ug/L		93
54) o-Xylene	14.66	106	1239538	4.39	ug/L		95
55) Styrene	14.75	104	1562786	4.67	ug/L	#	100
56) Isopropylbenzene	15.22	105	3323978	4.55	ug/L		98
58) 1,1,2,2-Tetrachloroethane	16.08	83	389548	4.41	ug/L		96
60) Bromoform	14.75	173	243310	4.39	ug/L	#	92
61) 1,3-Dichlorobenzene	17.52	146	1239978	3.98	ug/L		96
62) 1,4-Dichlorobenzene	17.69	146	1357264	4.25	ug/L		96
64) 1,2-Dichlorobenzene	18.44	146	1155133	4.29	ug/L		95
65) 1,2-Dibromo-3-chloropropan	19.95	75	33628	4.44	ug/L	#	61
66) 1,2,4-Trichlorobenzene	21.26	180	500814	4.79	ug/L	#	95
67) 1,2,3-Trichlorobenzene	22.23	180	486118	5.42	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0606

Data File: C:\MSDCHEM\1\DATA\A17061.D
Acq On : 11/27/08 17:13 Operator: SB
Sample : VSTD00528 Inst : A-5973
Misc : VSTD00528 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 14:03:04 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/28/2008 Time: 0819

Lab File ID: A17080 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00531 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.7649	0.010	-14.6	40.0
Chloromethane	1.1620	1.0282	0.010	-11.5	40.0
Vinyl chloride	1.0637	0.9103	0.100	-14.4	30.0
Bromomethane	0.4374	0.3799	0.100	-13.1	30.0
Chloroethane	0.4582	0.4206	0.010	-8.2	40.0
Trichlorofluoromethane	1.5559	1.5106	0.010	-2.9	40.0
1,1-Dichloroethene	0.7782	0.6729	0.100	-13.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.7881	0.010	-9.3	40.0
Acetone	0.0886	0.0730	0.010	-17.6	40.0
Carbon disulfide	2.6778	2.2927	0.010	-14.4	40.0
Methyl acetate	0.2832	0.2296	0.010	-18.9	40.0
Methylene chloride	0.8201	0.6433	0.010	-21.6	40.0
trans-1,2-Dichloroethene	0.8380	0.6927	0.010	-17.3	40.0
Methyl tert-butyl ether	1.1612	0.8427	0.010	-27.4	40.0
1,1-Dichloroethane	1.6519	1.3609	0.200	-17.6	30.0
cis-1,2-Dichloroethene	0.8075	0.6773	0.010	-16.1	40.0
2-Butanone	0.1424	0.1122	0.010	-21.2	40.0
Bromochloromethane	0.3122	0.2626	0.050	-15.9	30.0
Chloroform	1.5103	1.2700	0.200	-15.9	30.0
1,1,1-Trichloroethane	1.5726	1.3683	0.100	-13.0	30.0
Cyclohexane	1.9410	1.7157	0.010	-11.6	40.0
Carbon tetrachloride	1.3146	1.1447	0.100	-12.9	30.0
Benzene	4.0083	3.4561	0.400	-13.8	30.0
1,2-Dichloroethane	0.8593	0.7105	0.100	-17.3	30.0
Trichloroethene	1.0625	1.0252	0.300	-3.5	30.0
Methylcyclohexane	1.6024	1.4003	0.010	-12.6	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/28/2008 Time: 0819

Lab File ID: A17080 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00531 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.7888	0.010	-20.2	40.0
Bromodichloromethane	1.0560	0.8895	0.200	-15.8	30.0
cis-1,3-Dichloropropene	1.2608	1.0575	0.200	-16.1	30.0
4-Methyl-2-pentanone	0.3070	0.3041	0.010	-0.9	40.0
Toluene	4.0807	3.5959	0.400	-11.9	30.0
trans-1,3-Dichloropropene	0.9434	0.8221	0.100	-12.9	30.0
1,1,2-Trichloroethane	0.5007	0.4293	0.100	-14.3	30.0
Tetrachloroethene	0.8068	0.7251	0.100	-10.1	30.0
2-Hexanone	0.2002	0.2014	0.010	0.6	40.0
Dibromochloromethane	0.5508	0.4922	0.100	-10.6	30.0
1,2-Dibromoethane	0.4498	0.3781	0.010	-15.9	40.0
Chlorobenzene	2.4556	2.1551	0.500	-12.2	30.0
Ethylbenzene	4.3868	3.8448	0.100	-12.4	30.0
o-Xylene	1.4791	1.2958	0.300	-12.4	30.0
m,p-Xylene	1.6215	1.4733	0.300	-9.1	30.0
Styrene	1.7543	1.5984	0.300	-8.9	30.0
Bromoform	0.6426	0.5273	0.050	-17.9	30.0
Isopropylbenzene	3.8318	3.4293	0.010	-10.5	40.0
1,1,2,2-Tetrachloroethane	0.4635	0.3735	0.100	-19.4	30.0
1,3-Dichlorobenzene	3.6102	2.8064	0.400	-22.3	30.0
1,4-Dichlorobenzene	3.7048	3.0029	0.400	-18.9	30.0
1,2-Dichlorobenzene	3.1207	2.5246	0.400	-19.1	30.0
1,2-Dibromo-3-chloropropane	0.0878	0.0805	0.010	-8.3	40.0
1,2,4-Trichlorobenzene	1.2131	1.1359	0.200	-6.4	30.0
1,2,3-Trichlorobenzene	1.0409	0.9745	0.200	-6.4	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/28/2008 Time: 0819

Lab File ID: A17080 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No. (VSTD#####): VSTD00531 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	RRF	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.5030	0.010	-22.8	30.0
Chloroethane-d5	0.3855	0.3310	0.010	-14.1	40.0
1,1-Dichloroethene-d2	1.6048	1.3229	0.010	-17.6	30.0
2-Butanone-d5	0.1171	0.1074	0.010	-8.3	40.0
Chloroform-d	1.7689	1.4559	0.010	-17.7	30.0
1,2-Dichloroethane-d4	0.7067	0.5882	0.010	-16.8	30.0
Benzene-d6	3.6878	3.0569	0.010	-17.1	30.0
1,2-Dichloropropane-d6	1.0957	0.8862	0.010	-19.1	40.0
Toluene-d8	3.3790	2.9838	0.010	-11.7	30.0
trans-1,3-Dichloropropene-d4	0.9551	0.8264	0.010	-13.5	30.0
2-Hexanone-d5	0.0551	0.0597	0.010	8.3	40.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.4491	0.010	-13.8	30.0
1,2-Dichlorobenzene-d4	2.2728	1.8893	0.010	-16.9	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report A-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 16:10:41 2008
Response Via : Initial Calibration

CC Data File: A17080.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	81
2		Dichlorodifluoromethane	0.896	0.765	14.6	69
3		Chloromethane	1.162	1.028	11.5	75
4	S	Vinyl chloride-d3	0.652	0.503	22.8	61
5		Vinyl Chloride	1.064	0.910	14.4	70
6		Bromomethane	0.437	0.380	13.1	72
7	S	Chloroethane-d5	0.385	0.331	14.1	63
8		Chloroethane	0.458	0.421	8.2	74
9		Trichlorofluoromethane	1.556	1.511	2.9	79
10	S	1,1-Dichloroethene-d2	1.605	1.323	17.6	65
11		1,1-Dichloroethene	0.778	0.673	13.5	71
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.788	9.3	74
13		Acetone	0.089	0.073	17.6	70
14		Carbon Disulfide	2.678	2.293	14.4	69
15		Methyl acetate	0.283	0.230	18.9	68
16		Methylene Chloride	0.820	0.643	21.6	67
17		trans-1,2-Dichloroethene	0.838	0.693	17.3	67
18		Methyl tert-Butyl Ether	1.161	0.843	27.4#	59
19		1,1-Dichloroethane	1.652	1.361	17.6	66
20		cis-1,2-Dichloroethene	0.807	0.677	16.1	70
21	S	2-Butanone-d5	0.117	0.107	8.3	73
22		2-Butanone	0.142	0.112	21.2	67
23		Bromochloromethane	0.312	0.263	15.9	68
24	S	Chloroform-d	1.769	1.456	17.7	69
25		Chloroform	1.510	1.270	15.9	70
26	S	1,2-Dichloroethane-d4	0.707	0.588	16.8	64
27		1,2-Dichloroethane	0.859	0.711	17.3	68
28		Chlorobenzene-d5	1.000	1.000	0.0	81
29		1,1,1-Trichloroethane	1.573	1.368	13.0	71
30		Cyclohexane	1.941	1.716	11.6	67
31		Carbon tetrachloride	1.315	1.145	12.9	71
32	S	Benzene-d6	3.688	3.057	17.1	62
33		Benzene	4.008	3.456	13.8	69
34		Trichloroethene	1.062	1.025	3.5	75
35		Methylcyclohexane	1.602	1.400	12.6	67
36	S	1,2-Dichloropropane-d6	1.096	0.886	19.1	62
37		1,2-Dichloropropane	0.988	0.789	20.2	66
38		Bromodichloromethane	1.056	0.889	15.8	68
39		cis-1,3-Dichloropropene	1.261	1.058	16.1	65
40		4-Methyl-2-Pentanone	0.307	0.304	0.9	74
41	S	Toluene-d8	3.379	2.984	11.7	65
42		Toluene	4.081	3.596	11.9	70
43	S	trans-1,3-Dichloropropene-d4	0.955	0.826	13.5	63
44		trans-1,3-Dichloropropene	0.943	0.822	12.9	66
45		1,1,2-Trichloroethane	0.501	0.429	14.3	70
46		Tetrachloroethene	0.807	0.725	10.1	75
47	S	2-Hexanone-d5	0.055	0.060	-8.2	82
48		2-Hexanone	0.200	0.201	-0.6	72
49		Dibromochloromethane	0.551	0.492	10.6	70
50		1,2-Dibromoethane	0.450	0.378	15.9	67
51		Chlorobenzene	2.456	2.155	12.2	71
52		Ethylbenzene	4.387	3.845	12.4	69
53		m,p-Xylene	1.622	1.473	9.1	69
54		o-Xylene	1.479	1.296	12.4	67
55		Styrene	1.754	1.598	8.9	68
56		Isopropylbenzene	3.832	3.429	10.5	67

0611

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 16:10:41 2008
Response Via : Initial Calibration

CC Data File: A17080.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.449	13.8	65
58		1,1,2,2-Tetrachloroethane	0.464	0.374	19.4	66
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85
60		Bromoform	0.643	0.527	17.9	71
61		1,3-Dichlorobenzene	3.610	2.806	22.3	67
62		1,4-Dichlorobenzene	3.705	3.003	18.9	69
63	S	1,2-Dichlorobenzene-d4	2.273	1.889	16.9	67
64		1,2-Dichlorobenzene	3.121	2.525	19.1	70
65		1,2-Dibromo-3-chloropropane	0.088	0.080	8.3	65
66		1,2,4-Trichlorobenzene	1.213	1.136	6.4	91
67		1,2,3-Trichlorobenzene	1.041	0.974	6.4	114

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0612

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17080.D
Acq On : 11/28/08 08:19
Sample : VSTD00531
Misc : VSTD00531 25ML
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S2066 Init/date: 12/8/08

Quant Time: Nov 28 16:07:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 14:55:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.01	114	1151233	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.58	117	958781	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.66	152	446024	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	579105	3.86	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 77.20%			
7) Chloroethane-d5	2.81	69	381038	4.29	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 85.80%			
10) 1,1-Dichloroethene-d2	3.73	63	1522957	4.12	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 82.40%			
21) 2-Butanone-d5	7.61	46	1236354	45.84	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 91.68%			
24) Chloroform-d	7.17	84	1676096	4.12	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 82.40%			
26) 1,2-Dichloroethane-d4	8.24	65	677190	4.16	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 83.20%			
32) Benzene-d6	7.99	84	2930892	4.14	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 82.80%			
36) 1,2-Dichloropropane-d6	9.59	67	849657	4.04	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 80.80%			
41) Toluene-d8	11.11	98	2860764	4.42	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 88.40%			
43) trans-1,3-Dichloropropene-	11.85	79	792313	4.33	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 86.60%			
47) 2-Hexanone-d5	13.16	63	571983	54.12	ug/L	0.02
Spiked Amount 50.000	Range 28 - 135		Recovery = 108.24%			
57) 1,1,2,2-Tetrachloroethane-	16.06	84	430594	4.31	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 86.20%			
63) 1,2-Dichlorobenzene-d4	18.43	152	842673	4.16	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 83.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.92	85	880605	4.27	ug/L	97
3) Chloromethane	2.14	50	1183744	4.42	ug/L	99
5) Vinyl Chloride	2.26	62	1048021	4.28	ug/L	98
6) Bromomethane	2.66	94	437354	4.34	ug/L	100
8) Chloroethane	2.83	64	484235	4.59	ug/L	96
9) Trichlorofluoromethane	3.02	101	1739090	4.85	ug/L	99
11) 1,1-Dichloroethene	3.75	96	774670	4.32	ug/L #	48
12) 1,1,2-Trichloro-1,2,2-trif	3.84	101	907265	4.54	ug/L	93
13) Acetone	4.80	43	839903	41.19	ug/L	95
14) Carbon Disulfide	3.74	76	2639476	4.28	ug/L	100
15) Methyl acetate	5.04	43	264323m	4.05	ug/L	
16) Methylene Chloride	4.68	84	740584	3.92	ug/L	96
17) trans-1,2-Dichloroethene	4.93	96	797457	4.13	ug/L	98
18) Methyl tert-Butyl Ether	5.17	73	970088	3.63	ug/L	99
19) 1,1-Dichloroethane	5.90	63	1566691	4.12	ug/L	98
20) cis-1,2-Dichloroethene	6.74	96	779675	4.19	ug/L	99
22) 2-Butanone	7.68	43	1291354	39.39	ug/L	95
23) Bromochloromethane	7.04	128	302258	4.21	ug/L	94
25) Chloroform	7.19	83	1462068	4.20	ug/L	98
27) 1,2-Dichloroethane	8.34	62	817976	4.13	ug/L	99
29) 1,1,1-Trichloroethane	7.45	97	1311924	4.35	ug/L	97
30) Cyclohexane	7.01	56	1644998	4.42	ug/L	98
31) Carbon tetrachloride	7.34	117	1097554	4.35	ug/L	97

0613

Data File: C:\MSDCHEM\1\DATA\A17080.D
Acq On : 11/28/08 08:19 Operator: SB
Sample : VSTD00531 Inst : A-5973
Misc : VSTD00531 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 16:07:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 14:55:38 2008
Response via : Initial Calibration

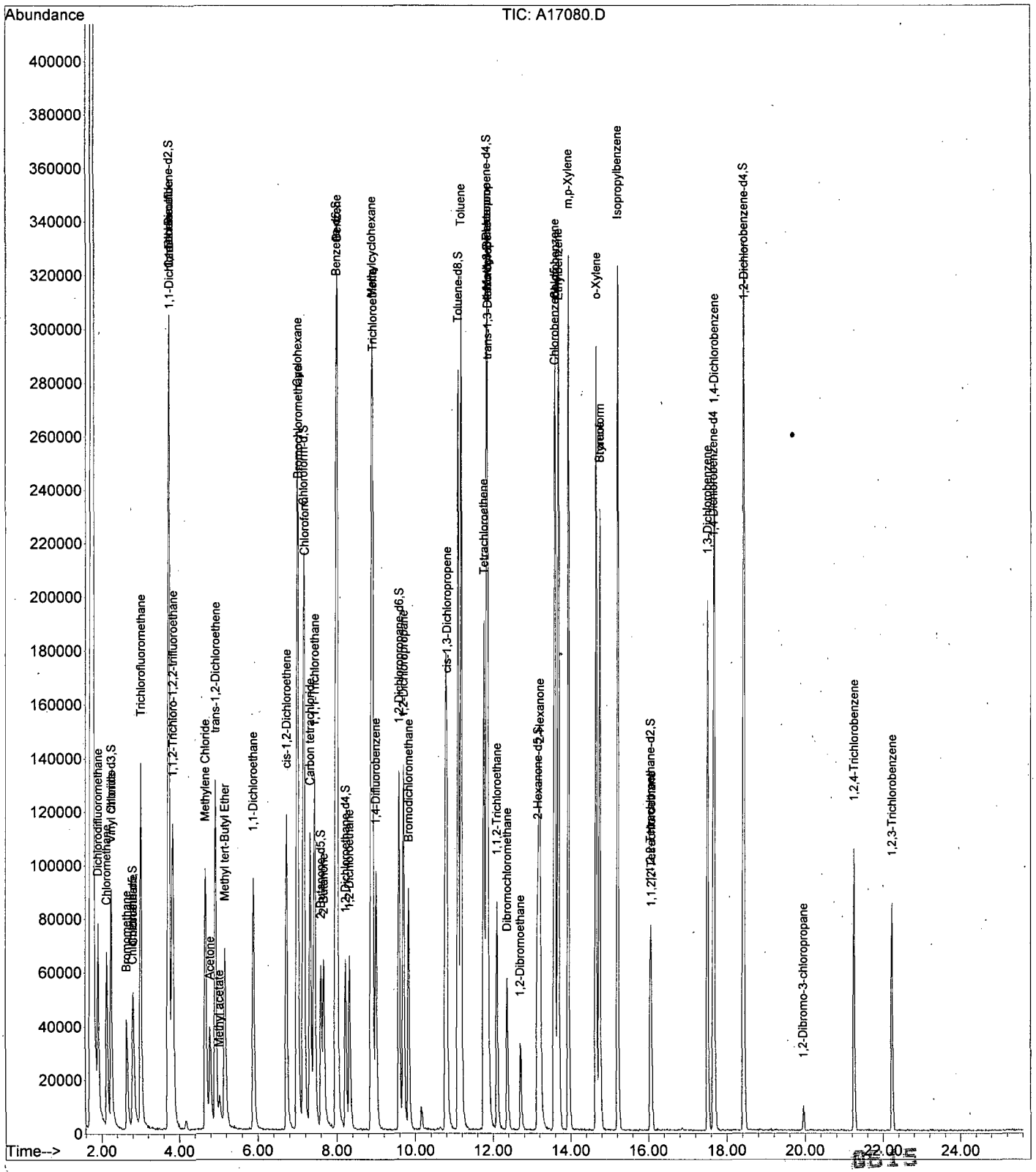
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.02	78	3313616	4.31	ug/L		100
34) Trichloroethene	8.92	95	982971	4.82	ug/L		96
35) Methylcyclohexane	8.89	83	1342589	4.37	ug/L		97
37) 1,2-Dichloropropane	9.71	63	756323	3.99	ug/L	#	97
38) Bromodichloromethane	9.84	83	852789	4.21	ug/L		100
39) cis-1,3-Dichloropropene	10.82	75	1013919	4.19	ug/L		99
40) 4-Methyl-2-Pentanone	11.84	43	2916110	49.54	ug/L		99
42) Toluene	11.19	91	3447645	4.41	ug/L		98
44) trans-1,3-Dichloropropene	11.87	75	788259	4.36	ug/L		99
45) 1,1,2-Trichloroethane	12.11	97	411616	4.29	ug/L		94
46) Tetrachloroethene	11.77	164	695211	4.49	ug/L		93
48) 2-Hexanone	13.22	43	1931446	50.31	ug/L		99
49) Dibromochloromethane	12.37	129	471946	4.47	ug/L		99
50) 1,2-Dibromoethane	12.72	107	362542	4.20	ug/L		100
51) Chlorobenzene	13.61	112	2066221	4.39	ug/L		95
52) Ethylbenzene	13.70	91	3686282	4.38	ug/L		98
53) m,p-Xylene	13.95	106	1412620	4.54	ug/L		92
54) o-Xylene	14.66	106	1242371	4.38	ug/L		95
55) Styrene	14.76	104	1532550	4.56	ug/L	#	100
56) Isopropylbenzene	15.22	105	3287986	4.47	ug/L		97
58) 1,1,2,2-Tetrachloroethane	16.09	83	358150	4.03	ug/L	#	97
60) Bromoform	14.75	173	235181	4.10	ug/L	#	96
61) 1,3-Dichlorobenzene	17.52	146	1251710	3.89	ug/L		97
62) 1,4-Dichlorobenzene	17.69	146	1339366	4.05	ug/L		95
64) 1,2-Dichlorobenzene	18.45	146	1126019	4.04	ug/L		96
65) 1,2-Dibromo-3-chloropropan	19.96	75	35888	4.58	ug/L	#	71
66) 1,2,4-Trichlorobenzene	21.26	180	506629	4.68	ug/L	#	93
67) 1,2,3-Trichlorobenzene	22.24	180	434648	4.68	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0614

Data File: C:\MSDCHEM\1\DATA\A17080.D
Acq On : 11/28/08 08:19 Operator: SB
Sample : VSTD00531 Inst : A-5973
Misc : VSTD00531 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 16:07:18 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 14:55:38 2008
Response via : Initial Calibration

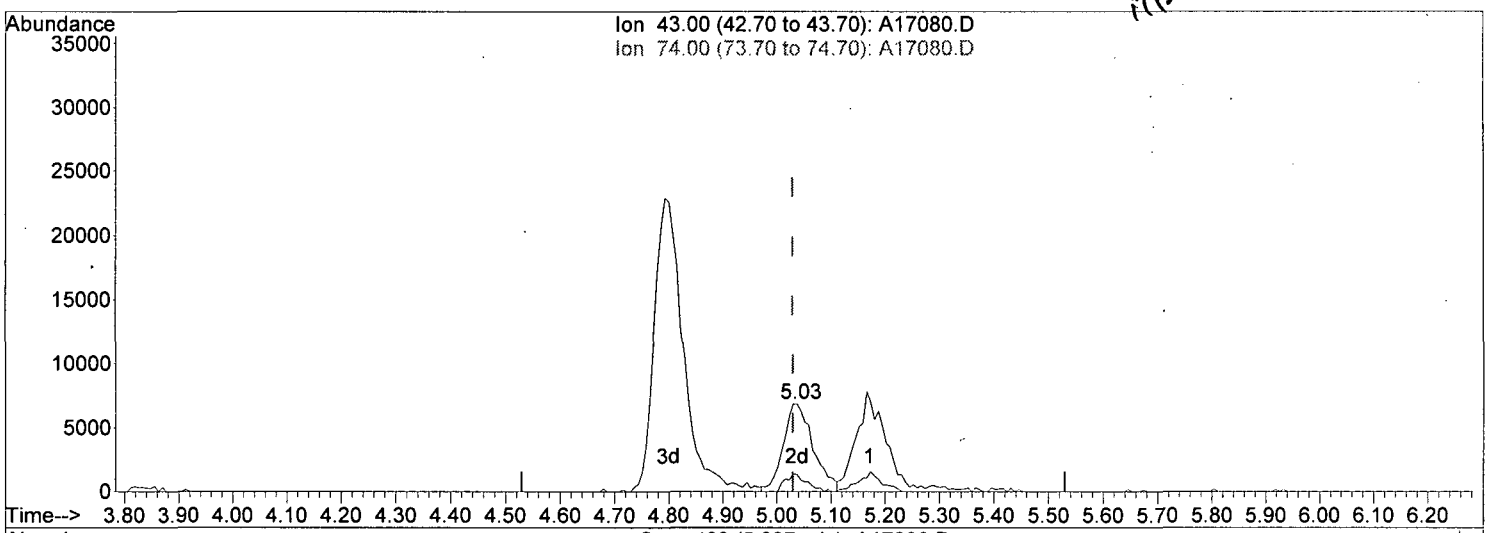


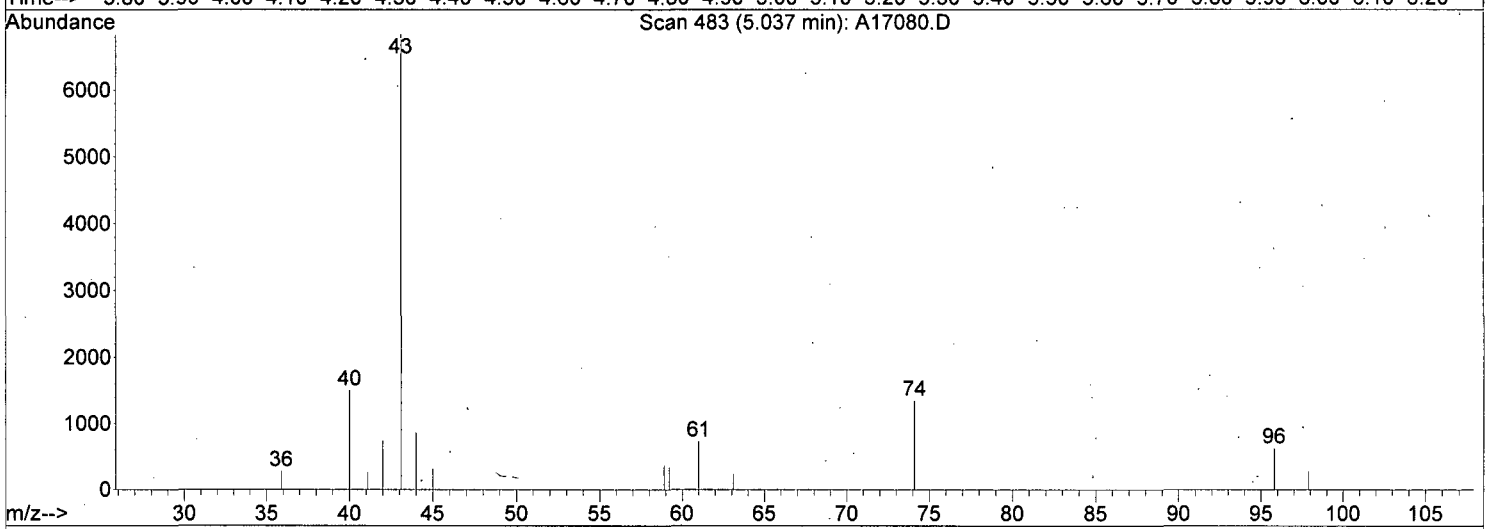
Quantitation Report (Qedit)

Data File: C:\MSDCHEM\1\DATA\A17080.D
Acq On : 11/28/08 08:19 Operator: SB
Sample : VSTD00531 Inst : A-5973
Misc : VSTD00531 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 16:07:00 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 14:55:38 2008
Response via : Initial Calibration

12/2/08





TIC: A17080.D

(15) Methyl acetate

5.037min (+0.007) 4.05ug/L m

response 264323

Ion	Exp%	Act%
43.00	100	100
74.00	18.90	17.40
0.00	0.00	0.00
0.00	0.00	0.00

B616

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/28/2008 Time: 1808

Lab File ID: A17094 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00532 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	RRF	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.8961	0.8914	0.010	-0.5	50.0
Chloromethane	1.1620	1.2479	0.010	7.4	50.0
Vinyl chloride	1.0637	1.0666	0.010	0.3	50.0
Bromomethane	0.4374	0.3347	0.010	-23.5	50.0
Chloroethane	0.4582	0.5188	0.010	13.2	50.0
Trichlorofluoromethane	1.5559	1.8365	0.010	18.0	50.0
1,1-Dichloroethene	0.7782	0.7808	0.010	0.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8685	0.8927	0.010	2.8	50.0
Acetone	0.0886	0.0883	0.010	-0.3	50.0
Carbon disulfide	2.6778	2.6162	0.010	-2.3	50.0
Methyl acetate	0.2832	0.2822	0.010	-0.4	50.0
Methylene chloride	0.8201	0.7885	0.010	-3.9	50.0
trans-1,2-Dichloroethene	0.8380	0.8014	0.010	-4.4	50.0
Methyl tert-butyl ether	1.1612	1.0238	0.010	-11.8	50.0
1,1-Dichloroethane	1.6519	1.6432	0.010	-0.5	50.0
cis-1,2-Dichloroethene	0.8075	0.7776	0.010	-3.7	50.0
2-Butanone	0.1424	0.1441	0.010	1.2	50.0
Bromochloromethane	0.3122	0.3517	0.010	12.7	50.0
Chloroform	1.5103	1.5775	0.010	4.4	50.0
1,1,1-Trichloroethane	1.5726	1.5923	0.010	1.3	50.0
Cyclohexane	1.9410	1.9663	0.010	1.3	50.0
Carbon tetrachloride	1.3146	1.3757	0.010	4.6	50.0
Benzene	4.0083	4.0976	0.010	2.2	50.0
1,2-Dichloroethane	0.8593	0.8953	0.010	4.2	50.0
Trichloroethene	1.0625	1.1481	0.010	8.1	50.0
Methylcyclohexane	1.6024	1.5836	0.010	-1.2	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/28/2008 Time: 1808

Lab File ID: A17094 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No. (VSTD#####): VSTD00532 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.9883	0.9561	0.010	-3.3	50.0
Bromodichloromethane	1.0560	1.0733	0.010	1.6	50.0
cis-1,3-Dichloropropene	1.2608	1.2459	0.010	-1.2	50.0
4-Methyl-2-pentanone	0.3070	0.3680	0.010	19.9	50.0
Toluene	4.0807	4.2425	0.010	4.0	50.0
trans-1,3-Dichloropropene	0.9434	0.9835	0.010	4.3	50.0
1,1,2-Trichloroethane	0.5007	0.5300	0.010	5.9	50.0
Tetrachloroethene	0.8068	0.8339	0.010	3.4	50.0
2-Hexanone	0.2002	0.2461	0.010	22.9	50.0
Dibromochloromethane	0.5508	0.5811	0.010	5.5	50.0
1,2-Dibromoethane	0.4498	0.4541	0.010	1.0	50.0
Chlorobenzene	2.4556	2.6097	0.010	6.3	50.0
Ethylbenzene	4.3868	4.7430	0.010	8.1	50.0
o-Xylene	1.4791	1.5571	0.010	5.3	50.0
m,p-Xylene	1.6215	1.7839	0.010	10.0	50.0
Styrene	1.7543	1.9718	0.010	12.4	50.0
Bromoform	0.6426	0.6359	0.010	-1.0	50.0
Isopropylbenzene	3.8318	4.2393	0.010	10.6	50.0
1,1,2,2-Tetrachloroethane	0.4635	0.4790	0.010	3.3	50.0
1,3-Dichlorobenzene	3.6102	3.6791	0.010	1.9	50.0
1,4-Dichlorobenzene	3.7048	3.8603	0.010	4.2	50.0
1,2-Dichlorobenzene	3.1207	3.2491	0.010	4.1	50.0
1,2-Dibromo-3-chloropropane	0.0878	0.0995	0.010	13.3	50.0
1,2,4-Trichlorobenzene	1.2131	1.3805	0.010	13.8	50.0
1,2,3-Trichlorobenzene	1.0409	1.1290	0.010	8.5	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: A-5973 Calibration Date: 11/28/2008 Time: 1808

Lab File ID: A17094 Init. Calib Date(s): 11/24/2008 11/24/2008

EPA Sample No.(VSTD#####): VSTD00532 Init. Calib Time(s): 1117 1441

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.6517	0.5492	0.010	-15.7	50.0
Chloroethane-d5	0.3855	0.3649	0.010	-5.3	50.0
1,1-Dichloroethene-d2	1.6048	1.4434	0.010	-10.1	50.0
2-Butanone-d5	0.1171	0.1093	0.010	-6.7	50.0
Chloroform-d	1.7689	1.6921	0.010	-4.3	50.0
1,2-Dichloroethane-d4	0.7067	0.6778	0.010	-4.1	50.0
Benzene-d6	3.6878	3.3824	0.010	-8.3	50.0
1,2-Dichloropropane-d6	1.0957	0.9923	0.010	-9.4	50.0
Toluene-d8	3.3790	3.2995	0.010	-2.4	50.0
trans-1,3-Dichloropropene-d4	0.9551	0.9324	0.010	-2.4	50.0
2-Hexanone-d5	0.0551	0.0529	0.010	-4.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.5208	0.5545	0.010	6.5	50.0
1,2-Dichlorobenzene-d4	2.2728	2.3302	0.010	2.5	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report A-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 18:36:52 2008
Response Via : Initial Calibration

CC Data File: A17094.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	61
2		Dichlorodifluoromethane	0.896	0.891	0.5	61
3		Chloromethane	1.162	1.248	-7.4	70
4	S	Vinyl chloride-d3	0.652	0.549	15.7	51
5		Vinyl Chloride	1.064	1.067	-0.3	62
6		Bromomethane	0.437	0.335	23.5	48#
7	S	Chloroethane-d5	0.385	0.365	5.3	53
8		Chloroethane	0.458	0.519	-13.2	69
9		Trichlorofluoromethane	1.556	1.836	-18.0	73
10	S	1,1-Dichloroethene-d2	1.605	1.443	10.1	54
11		1,1-Dichloroethene	0.778	0.781	-0.3	63
12		1,1,2-Trichloro-1,2,2-trifluo	0.868	0.893	-2.8	64
13		Acetone	0.089	0.088	0.3	65
14		Carbon Disulfide	2.678	2.616	2.3	60
15		Methyl acetate	0.283	0.282	0.3	63
16		Methylene Chloride	0.820	0.788	3.9	62
17		trans-1,2-Dichloroethene	0.838	0.801	4.4	59
18		Methyl tert-Butyl Ether	1.161	1.024	11.8	55
19		1,1-Dichloroethane	1.652	1.643	0.5	61
20		cis-1,2-Dichloroethene	0.807	0.778	3.7	61
21	S	2-Butanone-d5	0.117	0.109	6.7	57
22		2-Butanone	0.142	0.144	-1.2	65
23		Bromochloromethane	0.312	0.352	-12.7	69
24	S	Chloroform-d	1.769	1.692	4.3	61
25		Chloroform	1.510	1.578	-4.5	66
26	S	1,2-Dichloroethane-d4	0.707	0.678	4.1	56
27		1,2-Dichloroethane	0.859	0.895	-4.2	65
28		Chlorobenzene-d5	1.000	1.000	0.0	63
29		1,1,1-Trichloroethane	1.573	1.592	-1.3	64
30		Cyclohexane	1.941	1.966	-1.3	60
31		Carbon tetrachloride	1.315	1.376	-4.6	66
32	S	Benzene-d6	3.688	3.382	8.3	53
33		Benzene	4.008	4.098	-2.2	63
34		Trichloroethene	1.062	1.148	-8.1	65
35		Methylcyclohexane	1.602	1.584	1.2	59
36	S	1,2-Dichloropropane-d6	1.096	0.992	9.4	54
37		1,2-Dichloropropane	0.988	0.956	3.3	62
38		Bromodichloromethane	1.056	1.073	-1.6	63
39		cis-1,3-Dichloropropene	1.261	1.246	1.2	60
40		4-Methyl-2-Pentanone	0.307	0.368	-19.9	70
41	S	Toluene-d8	3.379	3.300	2.4	56
42		Toluene	4.081	4.242	-4.0	64
43	S	trans-1,3-Dichloropropene-d4	0.955	0.932	2.4	55
44		trans-1,3-Dichloropropene	0.943	0.984	-4.2	61
45		1,1,2-Trichloroethane	0.501	0.530	-5.9	68
46		Tetrachloroethene	0.807	0.834	-3.4	67
47	S	2-Hexanone-d5	0.055	0.053	4.1	56
48		2-Hexanone	0.200	0.246	-22.9	68
49		Dibromochloromethane	0.551	0.581	-5.5	64
50		1,2-Dibromoethane	0.450	0.454	-0.9	62
51		Chlorobenzene	2.456	2.610	-6.3	67
52		Ethylbenzene	4.387	4.743	-8.1	66
53		m,p-Xylene	1.622	1.784	-10.0	65
54		o-Xylene	1.479	1.557	-5.3	62
55		Styrene	1.754	1.972	-12.4	65
56		Isopropylbenzene	3.832	4.239	-10.6	64

0820

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Fri Nov 28 18:36:52 2008
Response Via : Initial Calibration

CC Data File: A17094.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.521	0.554	-6.5	62
58		1,1,2,2-Tetrachloroethane	0.464	0.479	-3.3	66
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	62
60		Bromoform	0.643	0.636	1.0	63
61		1,3-Dichlorobenzene	3.610	3.679	-1.9	65
62		1,4-Dichlorobenzene	3.705	3.860	-4.2	65
63	S	1,2-Dichlorobenzene-d4	2.273	2.330	-2.5	61
64		1,2-Dichlorobenzene	3.121	3.249	-4.1	66
65		1,2-Dibromo-3-chloropropane	0.088	0.100	-13.4	60
66		1,2,4-Trichlorobenzene	1.213	1.380	-13.8	81
67		1,2,3-Trichlorobenzene	1.041	1.129	-8.5	98

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17094.D
Acq On : 11/28/08 18:08
Sample : VSTD00532
Misc : VSTD00532 25ML
ALS Vial : 15 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Quant Time: Nov 28 18:34:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 18:31:40 2008
Response via : Initial Calibration

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.02	114	874398	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.59	117	744051	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.68	152	329102	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.26	65	480190	4.21	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 84.20%			
7) Chloroethane-d5	2.81	69	319042	4.73	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 94.60%			
10) 1,1-Dichloroethene-d2	3.74	63	1262084	4.50	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 90.00%			
21) 2-Butanone-d5	7.62	46	955548	46.64	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 93.28%			
24) Chloroform-d	7.19	84	1479540	4.78	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 95.60%			
26) 1,2-Dichloroethane-d4	8.25	65	592673	4.80	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 96.00%			
32) Benzene-d6	8.00	84	2516691	4.59	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 91.80%			
36) 1,2-Dichloropropane-d6	9.61	67	738290	4.53	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 90.60%			
41) Toluene-d8	11.13	98	2455015	4.88	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 97.60%			
43) trans-1,3-Dichloropropene-	11.86	79	693783	4.88	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 97.60%			
47) 2-Hexanone-d5	13.18	63	393482	47.97	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 95.94%			
57) 1,1,2,2-Tetrachloroethane-	16.07	84	412563	5.32	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 106.40%			
63) 1,2-Dichlorobenzene-d4	18.44	152	766890	5.13	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 102.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.93	85	779470	4.97	ug/L	96
3) Chloromethane	2.15	50	1091172	5.37	ug/L	99
5) Vinyl Chloride	2.27	62	932666	5.01	ug/L	98
6) Bromomethane	2.67	94	292652	3.83	ug/L	93
8) Chloroethane	2.84	64	453658	5.66	ug/L	99
9) Trichlorofluoromethane	3.03	101	1605829	5.90	ug/L	99
11) 1,1-Dichloroethene	3.75	96	682740	5.02	ug/L #	52
12) 1,1,2-Trichloro-1,2,2-trif	3.86	101	780571	5.14	ug/L	92
13) Acetone	4.81	43	771976	49.84	ug/L	94
14) Carbon Disulfide	3.75	76	2287567	4.88	ug/L	99
15) Methyl acetate	5.05	43	246714	4.98	ug/L	94
16) Methylene Chloride	4.69	84	689422	4.81	ug/L	96
17) trans-1,2-Dichloroethene	4.95	96	700714	4.78	ug/L	99
18) Methyl tert-Butyl Ether	5.19	73	895238	4.41	ug/L	97
19) 1,1-Dichloroethane	5.92	63	1436794	4.97	ug/L	97
20) cis-1,2-Dichloroethene	6.75	96	679969	4.82	ug/L	98
22) 2-Butanone	7.69	43	1259874	50.60	ug/L	93
23) Bromochloromethane	7.04	128	307554	5.63	ug/L	88
25) Chloroform	7.21	83	1379367	5.22	ug/L	98
27) 1,2-Dichloroethane	8.35	62	782826	5.21	ug/L	98
29) 1,1,1-Trichloroethane	7.47	97	1184786	5.06	ug/L	99
30) Cyclohexane	7.03	56	1463011	5.07	ug/L	99
31) Carbon tetrachloride	7.36	117	1023580	5.23	ug/L	97

0622

Data File: C:\MSDCHEM\1\DATA\A17094.D
Acq On : 11/28/08 18:08 Operator: SB
Sample : VSTD00532 Inst : A-5973
Misc : VSTD00532 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 28 18:34:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 18:31:40 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	8.04	78	3048821	5.11	ug/L		100
34) Trichloroethene	8.94	95	854276	5.40	ug/L		94
35) Methylcyclohexane	8.91	83	1178287	4.94	ug/L		97
37) 1,2-Dichloropropane	9.73	63	711391	4.84	ug/L		99
38) Bromodichloromethane	9.85	83	798556	5.08	ug/L		100
39) cis-1,3-Dichloropropene	10.84	75	926994	4.94	ug/L		99
40) 4-Methyl-2-Pentanone	11.86	43	2738038	59.93	ug/L		99
42) Toluene	11.20	91	3156599	5.20	ug/L		99
44) trans-1,3-Dichloropropene	11.88	75	731794	5.21	ug/L		100
45) 1,1,2-Trichloroethane	12.13	97	394379	5.29	ug/L		97
46) Tetrachloroethene	11.79	164	620449	5.17	ug/L		95
48) 2-Hexanone	13.22	43	1831473	61.47	ug/L		99
49) Dibromochloromethane	12.39	129	432342	5.27	ug/L		97
50) 1,2-Dibromoethane	12.73	107	337874	5.05	ug/L	#	96
51) Chlorobenzene	13.62	112	1941770	5.31	ug/L		94
52) Ethylbenzene	13.71	91	3529015	5.41	ug/L		99
53) m,p-Xylene	13.96	106	1327294	5.50	ug/L		94
54) o-Xylene	14.68	106	1158592	5.26	ug/L		95
55) Styrene	14.77	104	1467113	5.62	ug/L	#	100
56) Isopropylbenzene	15.23	105	3154256	5.53	ug/L		98
58) 1,1,2,2-Tetrachloroethane	16.10	83	356370	5.17	ug/L		98
60) Bromoform	14.77	173	209278	4.95	ug/L	#	96
61) 1,3-Dichlorobenzene	17.53	146	1210802	5.10	ug/L		95
62) 1,4-Dichlorobenzene	17.70	146	1270441	5.21	ug/L		95
64) 1,2-Dichlorobenzene	18.46	146	1069274	5.21	ug/L		97
65) 1,2-Dibromo-3-chloropropan	19.97	75	32757	5.67	ug/L	#	74
66) 1,2,4-Trichlorobenzene	21.28	180	454320	5.69	ug/L	#	93
67) 1,2,3-Trichlorobenzene	22.25	180	371571	5.42	ug/L		94

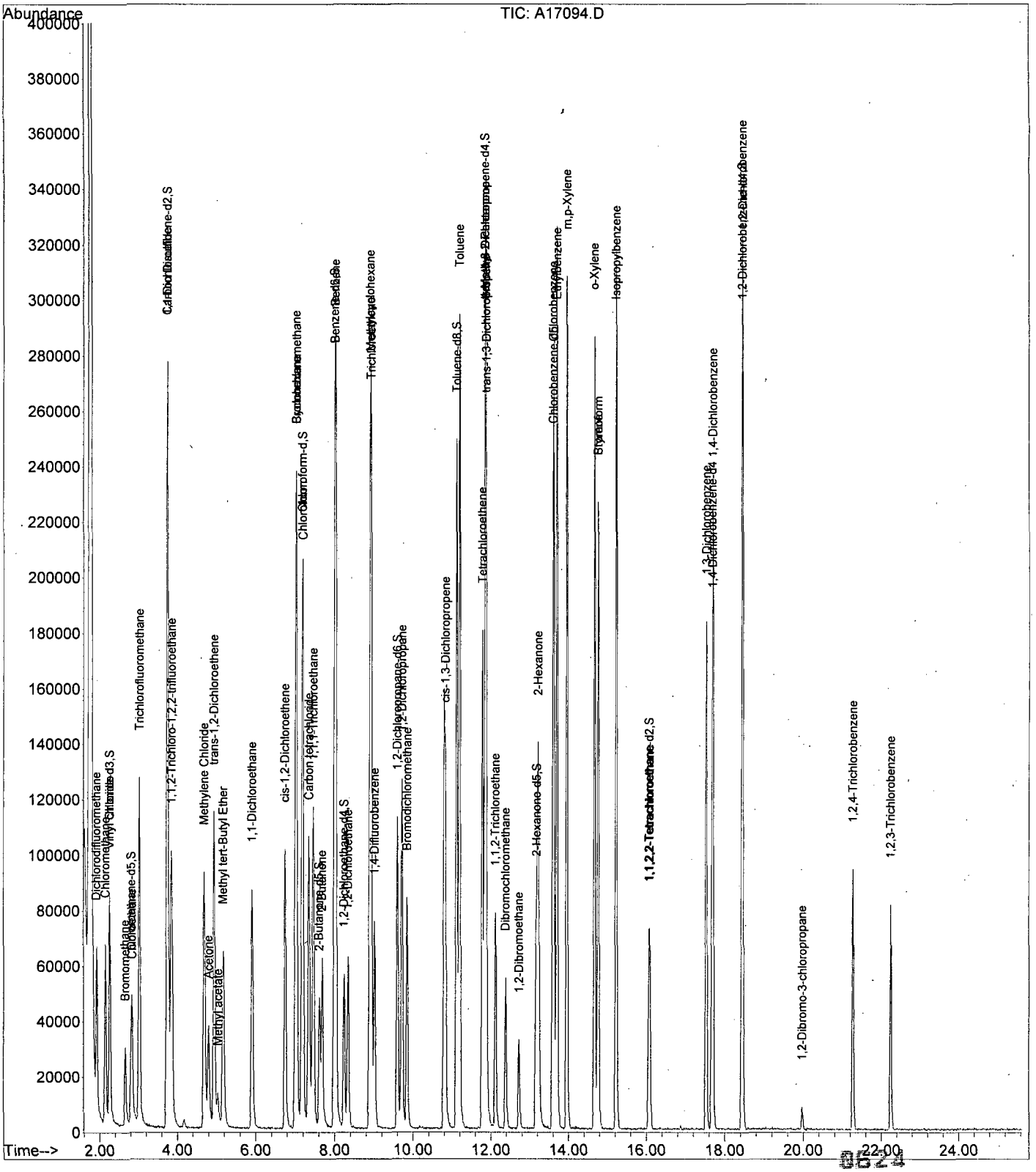
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0623

Quantitation Report (Not Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17094.D
Acq On : 11/28/08 18:08 Operator: SB
Sample : VSTD00532 Inst : A-5973
Misc : VSTD00532 25ML
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 28 18:34:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 18:31:40 2008
Response via : Initial Calibration



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/25/2008 Time: 2137

Lab File ID: B19498 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00589 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.0196	0.0173	0.010	-11.7	40.0
Chloromethane	0.6346	0.5064	0.010	-20.2	40.0
Vinyl chloride	0.8304	0.7630	0.100	-8.1	30.0
Bromomethane	0.2540	0.1856	0.100	-26.9	30.0
Chloroethane	0.2795	0.2603	0.010	-6.9	40.0
Trichlorofluoromethane	0.6161	0.6450	0.010	4.7	40.0
1,1-Dichloroethene	0.5763	0.5284	0.100	-8.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.6199	0.5961	0.010	-3.8	40.0
Acetone	0.0731	0.0687	0.010	-6.0	40.0
Carbon disulfide	1.6720	1.5779	0.010	-5.6	40.0
Methyl acetate	0.2087	0.1740	0.010	-16.6	40.0
Methylene chloride	0.6069	0.5157	0.010	-15.0	40.0
trans-1,2-Dichloroethene	0.5747	0.5347	0.010	-7.0	40.0
Methyl tert-butyl ether	0.8233	0.7239	0.010	-12.1	40.0
1,1-Dichloroethane	1.1648	1.0662	0.200	-8.5	30.0
cis-1,2-Dichloroethene	0.5822	0.5303	0.010	-8.9	40.0
2-Butanone	0.1129	0.1111	0.010	-1.6	40.0
Bromochloromethane	0.2461	0.2252	0.050	-8.5	30.0
Chloroform	1.0754	0.9822	0.200	-8.7	30.0
1,1,1-Trichloroethane	1.0937	1.0524	0.100	-3.8	30.0
Cyclohexane	1.3376	1.3479	0.010	0.8	40.0
Carbon tetrachloride	0.9274	0.8970	0.100	-3.3	30.0
Benzene	2.9279	2.8667	0.400	-2.1	30.0
1,2-Dichloroethane	0.6328	0.5881	0.100	-7.1	30.0
Trichloroethene	0.7454	0.7610	0.300	2.1	30.0
Methylcyclohexane	1.2220	1.2538	0.010	2.6	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/25/2008 Time: 2137

Lab File ID: B19498 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00589 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.7173	0.6918	0.010	-3.6	40.0
Bromodichloromethane	0.8164	0.7811	0.200	-4.3	30.0
cis-1,3-Dichloropropene	0.9866	0.9756	0.200	-1.1	30.0
4-Methyl-2-pentanone	0.3191	0.3329	0.010	4.3	40.0
Toluene	3.0127	2.9847	0.400	-0.9	30.0
trans-1,3-Dichloropropene	0.8312	0.8143	0.100	-2.0	30.0
1,1,2-Trichloroethane	0.4201	0.3861	0.100	-8.1	30.0
Tetrachloroethene	0.6575	0.6592	0.100	0.3	30.0
2-Hexanone	0.2095	0.2213	0.010	5.6	40.0
Dibromochloromethane	0.4860	0.4580	0.100	-5.8	30.0
1,2-Dibromoethane	0.3624	0.3393	0.010	-6.4	40.0
Chlorobenzene	1.8888	1.7885	0.500	-5.3	30.0
Ethylbenzene	3.3329	3.2925	0.100	-1.2	30.0
o-Xylene	1.1139	1.1199	0.300	0.5	30.0
m,p-Xylene	1.2530	1.2487	0.300	-0.3	30.0
Styrene	1.6802	1.6687	0.300	-0.7	30.0
Bromoform	0.6124	0.5537	0.050	-9.6	30.0
Isopropylbenzene	3.0575	3.0683	0.010	0.4	40.0
1,1,2,2-Tetrachloroethane	0.4370	0.4049	0.100	-7.3	30.0
1,3-Dichlorobenzene	2.8229	2.6464	0.400	-6.3	30.0
1,4-Dichlorobenzene	3.0834	2.8055	0.400	-9.0	30.0
1,2-Dichlorobenzene	2.5230	2.3850	0.400	-5.5	30.0
1,2-Dibromo-3-chloropropane	0.1238	0.1093	0.010	-11.7	40.0
1,2,4-Trichlorobenzene	1.0720	1.1050	0.200	3.1	30.0
1,2,3-Trichlorobenzene	0.5064	0.5978	0.200	18.0	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/25/2008 Time: 2137

Lab File ID: B19498 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00589 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.7114	0.7162	0.010	0.7	30.0
Chloroethane-d5	0.3225	0.3132	0.010	-2.9	40.0
1,1-Dichloroethene-d2	1.4297	1.4232	0.010	-0.5	30.0
2-Butanone-d5	0.0747	0.0570	0.010	-23.7	40.0
Chloroform-d	1.4133	1.4110	0.010	-0.2	30.0
1,2-Dichloroethane-d4	0.6471	0.6563	0.010	1.4	30.0
Benzene-d6	3.1947	3.4328	0.010	7.5	30.0
1,2-Dichloropropane-d6	0.9667	1.0021	0.010	3.7	40.0
Toluene-d8	2.8909	3.1314	0.010	8.3	30.0
trans-1,3-Dichloropropene-d4	0.8915	0.9383	0.010	5.2	30.0
2-Hexanone-d5	0.0609	0.0502	0.010	-17.6	40.0
1,1,2,2-Tetrachloroethane-d2	0.5343	0.5249	0.010	-1.8	30.0
1,2-Dichlorobenzene-d4	1.9535	1.9627	0.010	0.5	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report B-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 14:12:47 2008
Response Via : Initial Calibration

CC Data File: B19498.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	103
2		Dichlorodifluoromethane	0.020	0.017	11.6	79
3		Chloromethane	0.635	0.506	20.2	85
4	S	Vinyl chloride-d3	0.711	0.716	-0.7	105
5		Vinyl Chloride	0.830	0.763	8.1	95
6		Bromomethane	0.254	0.186	26.9#	80
7	S	Chloroethane-d5	0.323	0.313	2.9	104
8		Chloroethane	0.279	0.260	6.9	96
9		Trichlorofluoromethane	0.616	0.645	-4.7	108
10	S	1,1-Dichloroethene-d2	1.430	1.423	0.4	103
11		1,1-Dichloroethene	0.576	0.528	8.3	97
12		1,1,2-Trichloro-1,2,2-trifluo	0.620	0.596	3.8	101
13		Acetone	0.073	0.069	6.0	93
14		Carbon Disulfide	1.672	1.578	5.6	97
15		Methyl acetate	0.209	0.174	16.6	81
16		Methylene Chloride	0.607	0.516	15.0	92
17		trans-1,2-Dichloroethene	0.575	0.535	7.0	99
18		Methyl tert-Butyl Ether	0.823	0.724	12.1	86
19		1,1-Dichloroethane	1.165	1.066	8.5	94
20		cis-1,2-Dichloroethene	0.582	0.530	8.9	96
21	S	2-Butanone-d5	0.075	0.057	23.7	66
22		2-Butanone	0.113	0.111	1.6	93
23		Bromochloromethane	0.246	0.225	8.5	93
24	S	Chloroform-d	1.413	1.411	0.2	103
25		Chloroform	1.075	0.982	8.7	94
26	S	1,2-Dichloroethane-d4	0.647	0.656	-1.4	100
27		1,2-Dichloroethane	0.633	0.588	7.1	93
28		Chlorobenzene-d5	1.000	1.000	0.0	100
29		1,1,1-Trichloroethane	1.094	1.052	3.8	97
30		Cyclohexane	1.338	1.348	-0.8	98
31		Carbon tetrachloride	0.927	0.897	3.3	97
32	S	Benzene-d6	3.195	3.433	-7.5	107
33		Benzene	2.928	2.867	2.1	96
34		Trichloroethene	0.745	0.761	-2.1	95
35		Methylcyclohexane	1.222	1.254	-2.6	100
36	S	1,2-Dichloropropane-d6	0.967	1.002	-3.7	103
37		1,2-Dichloropropane	0.717	0.692	3.5	96
38		Bromodichloromethane	0.816	0.781	4.3	92
39		cis-1,3-Dichloropropene	0.987	0.976	1.1	92
40		4-Methyl-2-Pentanone	0.319	0.333	-4.3	92
41	S	Toluene-d8	2.891	3.131	-8.3	104
42		Toluene	3.013	2.985	0.9	96
43	S	trans-1,3-Dichloropropene-d4	0.891	0.938	-5.3	98
44		trans-1,3-Dichloropropene	0.831	0.814	2.0	94
45		1,1,2-Trichloroethane	0.420	0.386	8.1	89
46		Tetrachloroethene	0.658	0.659	-0.2	104
47	S	2-Hexanone-d5	0.061	0.050	17.6	64
48		2-Hexanone	0.209	0.221	-5.7	88
49		Dibromochloromethane	0.486	0.458	5.8	90
50		1,2-Dibromoethane	0.362	0.339	6.4	90
51		Chlorobenzene	1.889	1.788	5.3	93
52		Ethylbenzene	3.333	3.292	1.2	96
53		m,p-Xylene	1.253	1.249	0.3	96
54		o-Xylene	1.114	1.120	-0.5	96
55		Styrene	1.680	1.669	0.7	92
56		Isopropylbenzene	3.058	3.068	-0.4	96

0628

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 14:12:47 2008
Response Via : Initial Calibration

CC Data File: B19498.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.534	0.525	1.8	95
58		1,1,2,2-Tetrachloroethane	0.437	0.405	7.3	88
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102
60		Bromoform	0.612	0.554	9.6	85
61		1,3-Dichlorobenzene	2.823	2.646	6.3	96
62		1,4-Dichlorobenzene	3.083	2.806	9.0	93
63	S	1,2-Dichlorobenzene-d4	1.954	1.963	-0.5	102
64		1,2-Dichlorobenzene	2.523	2.385	5.5	94
65		1,2-Dibromo-3-chloropropane	0.124	0.109	11.8	83
66		1,2,4-Trichlorobenzene	1.072	1.105	-3.1	114
67		1,2,3-Trichlorobenzene	0.506	0.598	-18.0	143

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19498.D
Acq On : 11/25/08 21:37
Sample : VSTD00589
Misc : VSTD00589 25ML
ALS Vial : 2 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2X64
Fraction: S-2066 Init/date: 11/28/08

Quant Time: Nov 26 06:18:33 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.06	114	4827601	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	4003429	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1857269	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	3457514	5.03	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 100.60%			
7) Chloroethane-d5	2.39	69	1511863	4.86	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 97.20%			
10) 1,1-Dichloroethene-d2	3.12	63	6870844	4.98	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 99.60%			
21) 2-Butanone-d5	6.66	46	2753872	38.17	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 76.34%			
24) Chloroform-d	6.25	84	6811598	4.99	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 99.80%			
26) 1,2-Dichloroethane-d4	7.27	65	3168350	5.16	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 103.20%			
32) Benzene-d6	7.05	84	13742930	5.37	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 107.40%			
36) 1,2-Dichloropropane-d6	8.62	67	4011895	5.18	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 103.60%			
41) Toluene-d8	10.17	98	12536170	5.42	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 108.40%			
43) trans-1,3-Dichloropropene-	10.89	79	3756474	5.26	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 105.20%			
47) 2-Hexanone-d5	12.20	63	2010905	41.21	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 82.42%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	2101232	4.91	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 98.20%			
63) 1,2-Dichlorobenzene-d4	17.47	152	3645214	5.02	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 100.40%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.69	85	83432m	4.42	ug/L	
3) Chloromethane	1.87	50	2444557	3.99	ug/L	99
5) Vinyl Chloride	1.97	62	3683239	4.59	ug/L	99
6) Bromomethane	2.28	94	896023	3.65	ug/L	93
8) Chloroethane	2.41	64	1256423	4.66	ug/L	99
9) Trichlorofluoromethane	2.56	101	3113914	5.23	ug/L	99
11) 1,1-Dichloroethene	3.13	96	2550906	4.60	ug/L	95
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	2877676	4.81	ug/L	96
13) Acetone	3.96	43	3316679	47.14	ug/L	100
14) Carbon Disulfide	3.14	76	7617266	4.71	ug/L	100
15) Methyl acetate	4.21	43	839830	4.15	ug/L #	86
16) Methylene Chloride	3.88	84	2489489	4.25	ug/L	96
17) trans-1,2-Dichloroethene	4.14	96	2581348	4.65	ug/L	100
18) Methyl tert-Butyl Ether	4.35	73	3494878	4.40	ug/L	97
19) 1,1-Dichloroethane	5.02	63	5147364	4.58	ug/L	100
20) cis-1,2-Dichloroethene	5.83	96	2559890	4.55	ug/L	99
22) 2-Butanone	6.72	43	5365587	49.22	ug/L	98
23) Bromochloromethane	6.10	128	1087335	4.58	ug/L	96
25) Chloroform	6.27	83	4741734	4.57	ug/L	100
27) 1,2-Dichloroethane	7.37	62	2839247	4.65	ug/L	98
29) 1,1,1-Trichloroethane	6.54	97	4213254	4.81	ug/L	98
30) Cyclohexane	6.14	56	5396265	5.05	ug/L	100
31) Carbon tetrachloride	6.45	117	3591017	4.84	ug/L	94

0630

Data File: C:\MSDChem\1\DATA\B19498.D
Acq On : 11/25/08 21:37 Operator: SB
Sample : VSTD00589 Inst : B-5973
Misc : VSTD00589 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:18:33 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	7.09	78	11476455	4.90	ug/L	100
34) Trichloroethene	8.00	95	3046522	5.10	ug/L	99
35) Methylcyclohexane	7.99	83	5019364	5.13	ug/L	97
37) 1,2-Dichloropropane	8.74	63	2769706	4.82	ug/L	100
38) Bromodichloromethane	8.88	83	3126940	4.78	ug/L	98
39) cis-1,3-Dichloropropene	9.87	75	3905906	4.94	ug/L	100
40) 4-Methyl-2-Pentanone	10.88	43	13326211	52.15	ug/L	99
42) Toluene	10.25	91	11948990	4.95	ug/L	99
44) trans-1,3-Dichloropropene	10.91	75	3260077	4.90	ug/L	100
45) 1,1,2-Trichloroethane	11.15	97	1545848	4.60	ug/L	98
46) Tetrachloroethene	10.85	164	2638885	5.01	ug/L	96
48) 2-Hexanone	12.25	43	8860857	52.83	ug/L	97
49) Dibromochloromethane	11.42	129	1833420	4.71	ug/L	99
50) 1,2-Dibromoethane	11.74	107	1358383	4.68	ug/L	98
51) Chlorobenzene	12.66	112	7159953	4.73	ug/L	99
52) Ethylbenzene	12.77	91	13181143	4.94	ug/L	99
53) m,p-Xylene	13.03	106	4999085	4.98	ug/L	98
54) o-Xylene	13.73	106	4483392	5.03	ug/L	98
55) Styrene	13.82	104	6680497	4.97	ug/L	98
56) Isopropylbenzene	14.30	105	12283841	5.02	ug/L	99
58) 1,1,2,2-Tetrachloroethane	15.14	83	1621040	4.63	ug/L	97
60) Bromoform	13.79	173	1028357	4.52	ug/L	99
61) 1,3-Dichlorobenzene	16.57	146	4915083	4.69	ug/L	99
62) 1,4-Dichlorobenzene	16.74	146	5210619	4.55	ug/L	99
64) 1,2-Dichlorobenzene	17.49	146	4429603	4.73	ug/L	99
65) 1,2-Dibromo-3-chloropropan	18.98	75	202907	4.45	ug/L	96
66) 1,2,4-Trichlorobenzene	20.30	180	2052341	5.15	ug/L	95
67) 1,2,3-Trichlorobenzene	21.26	180	1110227	5.90	ug/L	98

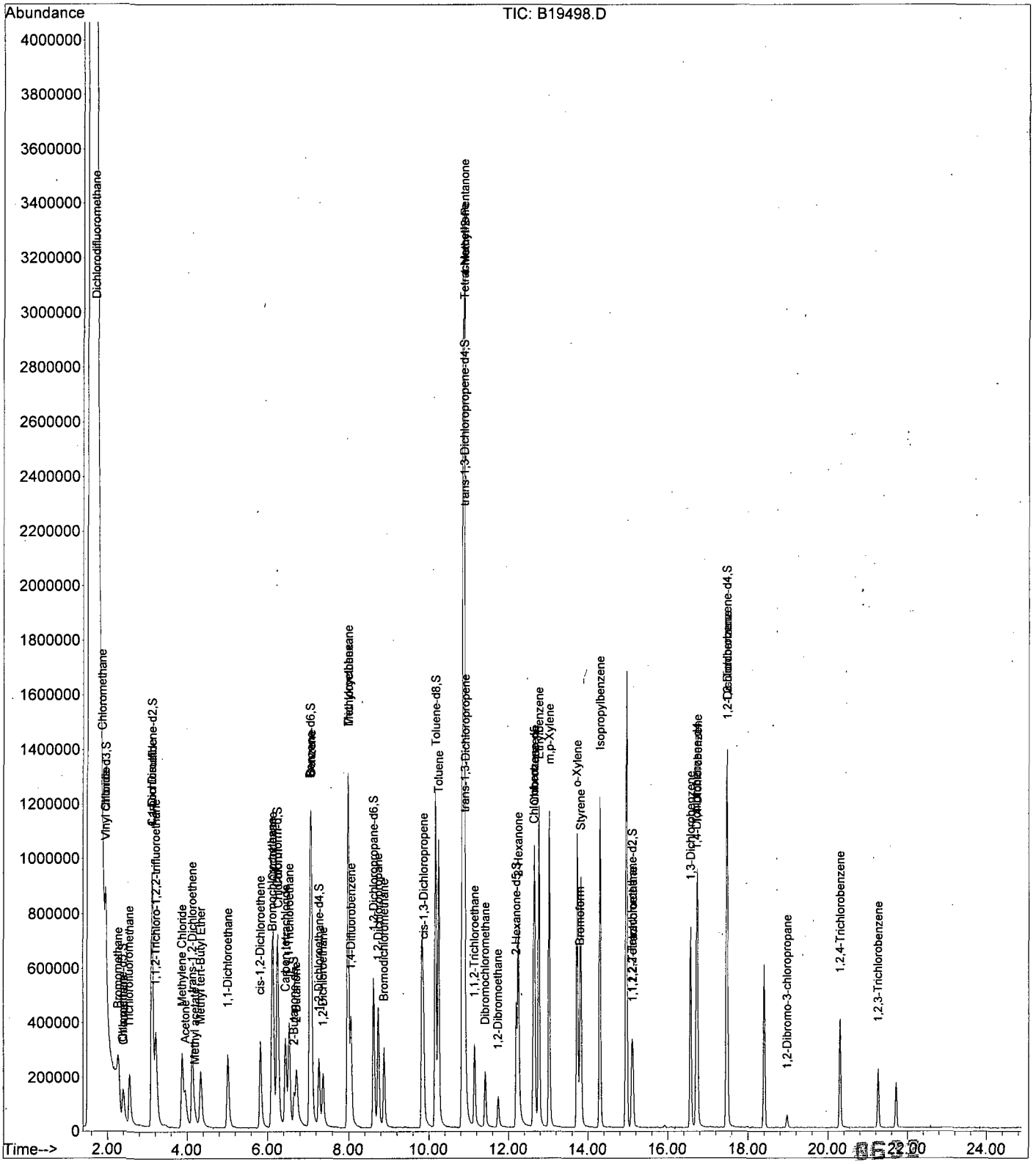
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0631

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19498.D
Acq On : 11/25/08 21:37 Operator: SB
Sample : VSTD00589 Inst : B-5973
Misc : VSTD00589 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:18:33 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

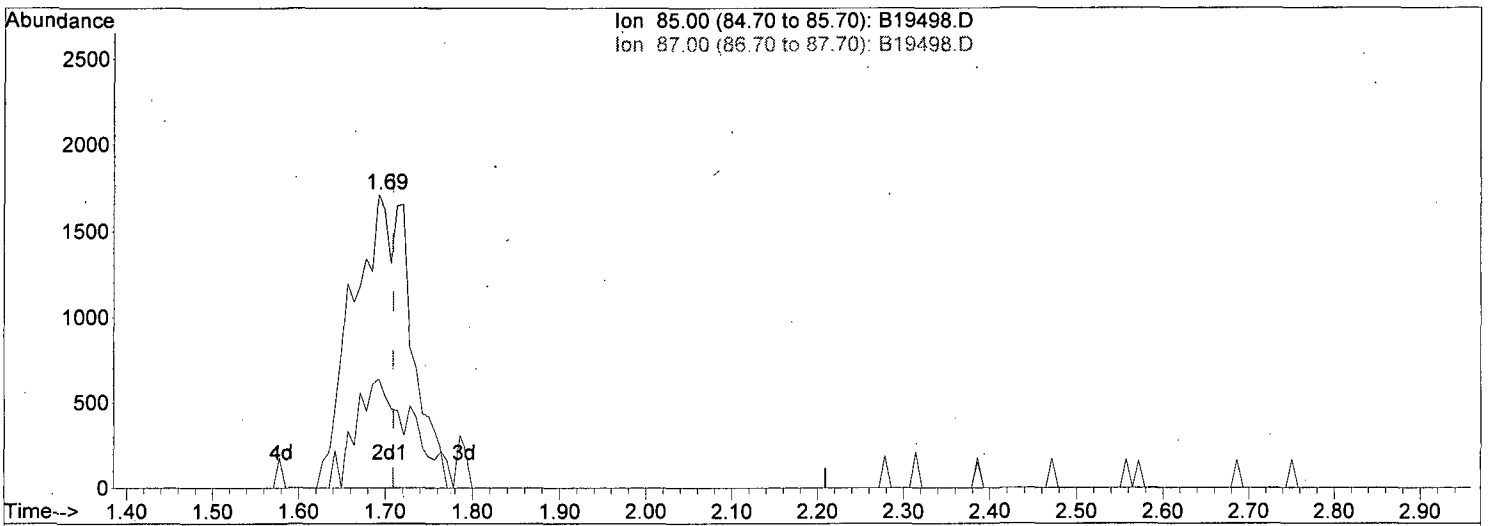


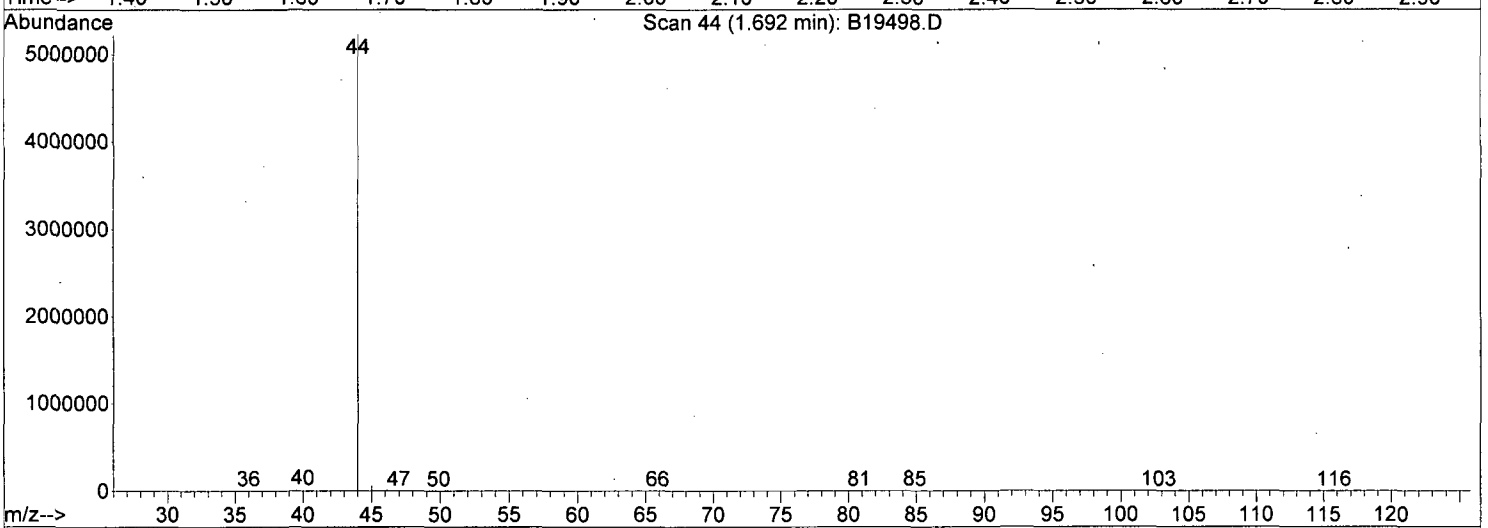
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19498.D
Acq On : 11/25/08 21:37 Operator: SB
Sample : VSTD00589 Inst : B-5973
Misc : VSTD00589 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:18:33 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

11/28/08





TIC: B19498.D

(2) Dichlorodifluoromethane

1.692min (-0.017) 4.42ug/L m

response 83432

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	9.73#
0.00	0.00	0.00
0.00	0.00	0.00

0633

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 0714

Lab File ID: B19513 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No. (VSTD#####): VSTD00590 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.0196	0.0249	0.010	27.0	50.0
Chloromethane	0.6346	0.5727	0.010	-9.8	50.0
Vinyl chloride	0.8304	0.8338	0.010	0.4	50.0
Bromomethane	0.2540	0.2507	0.010	-1.3	50.0
Chloroethane	0.2795	0.2881	0.010	3.1	50.0
Trichlorofluoromethane	0.6161	0.7129	0.010	15.7	50.0
1,1-Dichloroethene	0.5763	0.5496	0.010	-4.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.6199	0.5950	0.010	-4.0	50.0
Acetone	0.0731	0.0740	0.010	1.2	50.0
Carbon disulfide	1.6720	1.6704	0.010	-0.1	50.0
Methyl acetate	0.2087	0.1977	0.010	-5.3	50.0
Methylene chloride	0.6069	0.5403	0.010	-11.0	50.0
trans-1,2-Dichloroethene	0.5747	0.5153	0.010	-10.3	50.0
Methyl tert-butyl ether	0.8233	0.7199	0.010	-12.6	50.0
1,1-Dichloroethane	1.1648	1.0767	0.010	-7.6	50.0
cis-1,2-Dichloroethene	0.5822	0.4988	0.010	-14.3	50.0
2-Butanone	0.1129	0.1183	0.010	4.8	50.0
Bromochloromethane	0.2461	0.2200	0.010	-10.6	50.0
Chloroform	1.0754	1.0035	0.010	-6.7	50.0
1,1,1-Trichloroethane	1.0937	1.0402	0.010	-4.9	50.0
Cyclohexane	1.3376	1.2811	0.010	-4.2	50.0
Carbon tetrachloride	0.9274	0.9102	0.010	-1.9	50.0
Benzene	2.9279	2.8778	0.010	-1.7	50.0
1,2-Dichloroethane	0.6328	0.6027	0.010	-4.8	50.0
Trichloroethene	0.7454	0.8171	0.010	9.6	50.0
Methylcyclohexane	1.2220	1.1222	0.010	-8.2	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 0714

Lab File ID: B19513 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No. (VSTD#####): VSTD00590 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.7173	0.6720	0.010	-6.3	50.0
Bromodichloromethane	0.8164	0.7937	0.010	-2.8	50.0
cis-1,3-Dichloropropene	0.9866	0.9398	0.010	-4.7	50.0
4-Methyl-2-pentanone	0.3191	0.3431	0.010	7.5	50.0
Toluene	3.0127	2.8063	0.010	-6.9	50.0
trans-1,3-Dichloropropene	0.8312	0.7992	0.010	-3.8	50.0
1,1,2-Trichloroethane	0.4201	0.3830	0.010	-8.8	50.0
Tetrachloroethene	0.6575	0.5481	0.010	-16.6	50.0
2-Hexanone	0.2095	0.2294	0.010	9.5	50.0
Dibromochloromethane	0.4860	0.4287	0.010	-11.8	50.0
1,2-Dibromoethane	0.3624	0.2968	0.010	-18.1	50.0
Chlorobenzene	1.8888	1.6405	0.010	-13.1	50.0
Ethylbenzene	3.3329	2.9929	0.010	-10.2	50.0
o-Xylene	1.1139	0.9355	0.010	-16.0	50.0
m,p-Xylene	1.2530	1.0580	0.010	-15.6	50.0
Styrene	1.6802	1.4698	0.010	-12.5	50.0
Bromoform	0.6124	0.6079	0.010	-0.7	50.0
Isopropylbenzene	3.0575	2.6657	0.010	-12.8	50.0
1,1,2,2-Tetrachloroethane	0.4370	0.3923	0.010	-10.2	50.0
1,3-Dichlorobenzene	2.8229	2.3645	0.010	-16.2	50.0
1,4-Dichlorobenzene	3.0834	2.6508	0.010	-14.0	50.0
1,2-Dichlorobenzene	2.5230	2.2646	0.010	-10.2	50.0
1,2-Dibromo-3-chloropropane	0.1238	0.1082	0.010	-12.6	50.0
1,2,4-Trichlorobenzene	1.0720	0.8589	0.010	-19.9	50.0
1,2,3-Trichlorobenzene	0.5064	0.4251	0.010	-16.1	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 0714

Lab File ID: B19513 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00590 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.7114	0.7722	0.010	8.5	50.0
Chloroethane-d5	0.3225	0.3624	0.010	12.4	50.0
1,1-Dichloroethene-d2	1.4297	1.5229	0.010	6.5	50.0
2-Butanone-d5	0.0747	0.0736	0.010	-1.5	50.0
Chloroform-d	1.4133	1.4622	0.010	3.5	50.0
1,2-Dichloroethane-d4	0.6471	0.6518	0.010	0.7	50.0
Benzene-d6	3.1947	3.4432	0.010	7.8	50.0
1,2-Dichloropropane-d6	0.9667	0.9984	0.010	3.3	50.0
Toluene-d8	2.8909	2.9016	0.010	0.4	50.0
trans-1,3-Dichloropropene-d4	0.8915	0.9341	0.010	4.8	50.0
2-Hexanone-d5	0.0609	0.0565	0.010	-7.2	50.0
1,1,2,2-Tetrachloroethane-d2	0.5343	0.5185	0.010	-3.0	50.0
1,2-Dichlorobenzene-d4	1.9535	1.8662	0.010	-4.5	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report B-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 14:34:58 2008
Response Via : Initial Calibration

CC Data File: B19513.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	61
2		Dichlorodifluoromethane	0.020	0.025	-27.1#	67
3		Chloromethane	0.635	0.573	9.8	57
4	S	Vinyl chloride-d3	0.711	0.772	-8.6	67
5		Vinyl Chloride	0.830	0.834	-0.4	61
6		Bromomethane	0.254	0.251	1.3	64
7	S	Chloroethane-d5	0.323	0.362	-12.4	71
8		Chloroethane	0.279	0.288	-3.1	63
9		Trichlorofluoromethane	0.616	0.713	-15.7	70
10	S	1,1-Dichloroethene-d2	1.430	1.523	-6.5	65
11		1,1-Dichloroethene	0.576	0.550	4.6	59
12		1,1,2-Trichloro-1,2,2-trifluo	0.620	0.595	4.0	60
13		Acetone	0.073	0.074	-1.3	59
14		Carbon Disulfide	1.672	1.670	0.1	61
15		Methyl acetate	0.209	0.198	5.2	55
16		Methylene Chloride	0.607	0.540	11.0	57
17		trans-1,2-Dichloroethene	0.575	0.515	10.3	56
18		Methyl tert-Butyl Ether	0.823	0.720	12.6	50
19		1,1-Dichloroethane	1.165	1.077	7.6	56
20		cis-1,2-Dichloroethene	0.582	0.499	14.3	53
21	S	2-Butanone-d5	0.075	0.074	1.5	50#
22		2-Butanone	0.113	0.118	-4.7	58
23		Bromochloromethane	0.246	0.220	10.6	54
24	S	Chloroform-d	1.413	1.462	-3.5	63
25		Chloroform	1.075	1.004	6.7	56
26	S	1,2-Dichloroethane-d4	0.647	0.652	-0.7	59
27		1,2-Dichloroethane	0.633	0.603	4.8	56
28		Chlorobenzene-d5	1.000	1.000	0.0	58
29		1,1,1-Trichloroethane	1.094	1.040	4.9	55
30		Cyclohexane	1.338	1.281	4.2	54
31		Carbon tetrachloride	0.927	0.910	1.9	57
32	S	Benzene-d6	3.195	3.443	-7.8	62
33		Benzene	2.928	2.878	1.7	55
34		Trichloroethene	0.745	0.817	-9.6	59
35		Methylcyclohexane	1.222	1.122	8.2	52
36	S	1,2-Dichloropropane-d6	0.967	0.998	-3.3	60
37		1,2-Dichloropropane	0.717	0.672	6.3	54
38		Bromodichloromethane	0.816	0.794	2.8	54
39		cis-1,3-Dichloropropene	0.987	0.940	4.8	51
40		4-Methyl-2-Pentanone	0.319	0.343	-7.5	55
41	S	Toluene-d8	2.891	2.902	-0.4	56
42		Toluene	3.013	2.806	6.9	52
43	S	trans-1,3-Dichloropropene-d4	0.891	0.934	-4.8	57
44		trans-1,3-Dichloropropene	0.831	0.799	3.9	54
45		1,1,2-Trichloroethane	0.420	0.383	8.8	51
46		Tetrachloroethene	0.658	0.548	16.6	50#
47	S	2-Hexanone-d5	0.061	0.057	7.2	41#
48		2-Hexanone	0.209	0.229	-9.5	53
49		Dibromochloromethane	0.486	0.429	11.8	49#
50		1,2-Dibromoethane	0.362	0.297	18.1	46#
51		Chlorobenzene	1.889	1.640	13.1	49#
52		Ethylbenzene	3.333	2.993	10.2	50
53		m,p-Xylene	1.253	1.058	15.6	47#
54		o-Xylene	1.114	0.935	16.0	46#
55		Styrene	1.680	1.470	12.5	47#
56		Isopropylbenzene	3.058	2.666	12.8	48#

8637

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 14:34:58 2008
Response Via : Initial Calibration

CC Data File: B19513.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.534	0.518	3.0	54
58		1,1,2,2-Tetrachloroethane	0.437	0.392	10.2	49#
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	54
60		Bromoform	0.612	0.608	0.7	49#
61		1,3-Dichlorobenzene	2.823	2.364	16.2	46#
62		1,4-Dichlorobenzene	3.083	2.651	14.0	47#
63	S	1,2-Dichlorobenzene-d4	1.954	1.866	4.5	52
64		1,2-Dichlorobenzene	2.523	2.265	10.2	47#
65		1,2-Dibromo-3-chloropropane	0.124	0.108	12.6	44#
66		1,2,4-Trichlorobenzene	1.072	0.859	19.9	47#
67		1,2,3-Trichlorobenzene	0.506	0.425	16.1	54

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0638

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19513.D
Acq On : 11/26/08 07:14
Sample : VSTD00590
Misc : VSTD00590 25ML
ALS Vial : 2 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2XF4
Code: S-2066 Init/date: 12/28/08

Quant Time: Nov 28 14:34:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 09:13:16 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	2849510	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	2314245	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	984281	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2200483	5.43	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 108.60%			
7) Chloroethane-d5	2.39	69	1032589	5.62	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 112.40%			
10) 1,1-Dichloroethene-d2	3.12	63	4339539	5.33	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 106.60%#			
21) 2-Butanone-d5	6.66	46	2097559	49.26	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 98.52%			
24) Chloroform-d	6.25	84	4166591	5.17	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 103.40%			
26) 1,2-Dichloroethane-d4	7.28	65	1857174	5.04	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 100.80%			
32) Benzene-d6	7.06	84	7968325	5.39	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 107.80%			
36) 1,2-Dichloropropane-d6	8.63	67	2310469	5.16	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 103.20%			
41) Toluene-d8	10.18	98	6715111	5.02	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.40%			
43) trans-1,3-Dichloropropene-	10.90	79	2161829	5.24	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 104.80%			
47) 2-Hexanone-d5	12.20	63	1308480	46.39	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 92.78%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1199877	4.85	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 97.00%			
63) 1,2-Dichlorobenzene-d4	17.48	152	1836848	4.78	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 95.60%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.70	85	70822m	6.35	ug/L	
3) Chloromethane	1.87	50	1631784	4.51	ug/L	100
5) Vinyl Chloride	1.97	62	2375842	5.02	ug/L	99
6) Bromomethane	2.28	94	714487	4.94	ug/L	98
8) Chloroethane	2.42	64	820894	5.15	ug/L	98
9) Trichlorofluoromethane	2.56	101	2031544	5.79	ug/L	97
11) 1,1-Dichloroethene	3.13	96	1566207	4.77	ug/L	96
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	1695544	4.80	ug/L	93
13) Acetone	3.97	43	2109817	50.63	ug/L	98
14) Carbon Disulfide	3.14	76	4759721	5.00	ug/L	99
15) Methyl acetate	4.20	43	563343	4.74	ug/L #	81
16) Methylene Chloride	3.89	84	1539684	4.45	ug/L	92
17) trans-1,2-Dichloroethene	4.15	96	1468287	4.48	ug/L	96
18) Methyl tert-Butyl Ether	4.35	73	2051424	4.37	ug/L	96
19) 1,1-Dichloroethane	5.03	63	3067979	4.62	ug/L	100
20) cis-1,2-Dichloroethene	5.84	96	1421276	4.28	ug/L	98
22) 2-Butanone	6.73	43	3369679	52.37	ug/L	94
23) Bromochloromethane	6.11	128	626828	4.47	ug/L #	87
25) Chloroform	6.27	83	2859610	4.67	ug/L	99
27) 1,2-Dichloroethane	7.38	62	1717502	4.76	ug/L	97
29) 1,1,1-Trichloroethane	6.54	97	2407235	4.76	ug/L	96
30) Cyclohexane	6.15	56	2964713	4.79	ug/L	98
31) Carbon tetrachloride	6.45	117	2106416	4.91	ug/L	95

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19513.D
Acq On : 11/26/08 07:14 Operator: SB
Sample : VSTD00590 Inst : B-5973
Misc : VSTD00590 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 14:34:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 09:13:16 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	7.09	78	6659831	4.91	ug/L		100
34) Trichloroethene	8.00	95	1890880	5.48	ug/L		96
35) Methylcyclohexane	8.00	83	2597053	4.59	ug/L		94
37) 1,2-Dichloropropane	8.75	63	1555272	4.68	ug/L		99
38) Bromodichloromethane	8.89	83	1836796	4.86	ug/L		99
39) cis-1,3-Dichloropropene	9.88	75	2174816	4.76	ug/L		99
40) 4-Methyl-2-Pentanone	10.89	43	7940679	53.76	ug/L		95
42) Toluene	10.25	91	6494443	4.66	ug/L		97
44) trans-1,3-Dichloropropene	10.92	75	1849433	4.81	ug/L		99
45) 1,1,2-Trichloroethane	11.15	97	886344	4.56	ug/L		98
46) Tetrachloroethene	10.86	164	1268420	4.17	ug/L		99
48) 2-Hexanone	12.26	43	5308259	54.75	ug/L	#	94
49) Dibromochloromethane	11.42	129	992148	4.41	ug/L		98
50) 1,2-Dibromoethane	11.75	107	686795	4.09	ug/L	#	91
51) Chlorobenzene	12.66	112	3796471	4.34	ug/L		98
52) Ethylbenzene	12.77	91	6926240	4.49	ug/L		98
53) m,p-Xylene	13.03	106	2448378	4.22	ug/L		93
54) o-Xylene	13.74	106	2164943	4.20	ug/L		92
55) Styrene	13.83	104	3401527	4.37	ug/L		96
56) Isopropylbenzene	14.31	105	6169115	4.36	ug/L		98
58) 1,1,2,2-Tetrachloroethane	15.14	83	907968	4.49	ug/L		100
60) Bromoform	13.80	173	598330	4.96	ug/L		98
61) 1,3-Dichlorobenzene	16.58	146	2327305	4.19	ug/L		99
62) 1,4-Dichlorobenzene	16.75	146	2609168	4.30	ug/L		99
64) 1,2-Dichlorobenzene	17.49	146	2229005	4.49	ug/L		99
65) 1,2-Dibromo-3-chloropropan	18.98	75	106536	4.37	ug/L		93
66) 1,2,4-Trichlorobenzene	20.31	180	845395	4.01	ug/L		97
67) 1,2,3-Trichlorobenzene	21.27	180	418382	4.20	ug/L		98

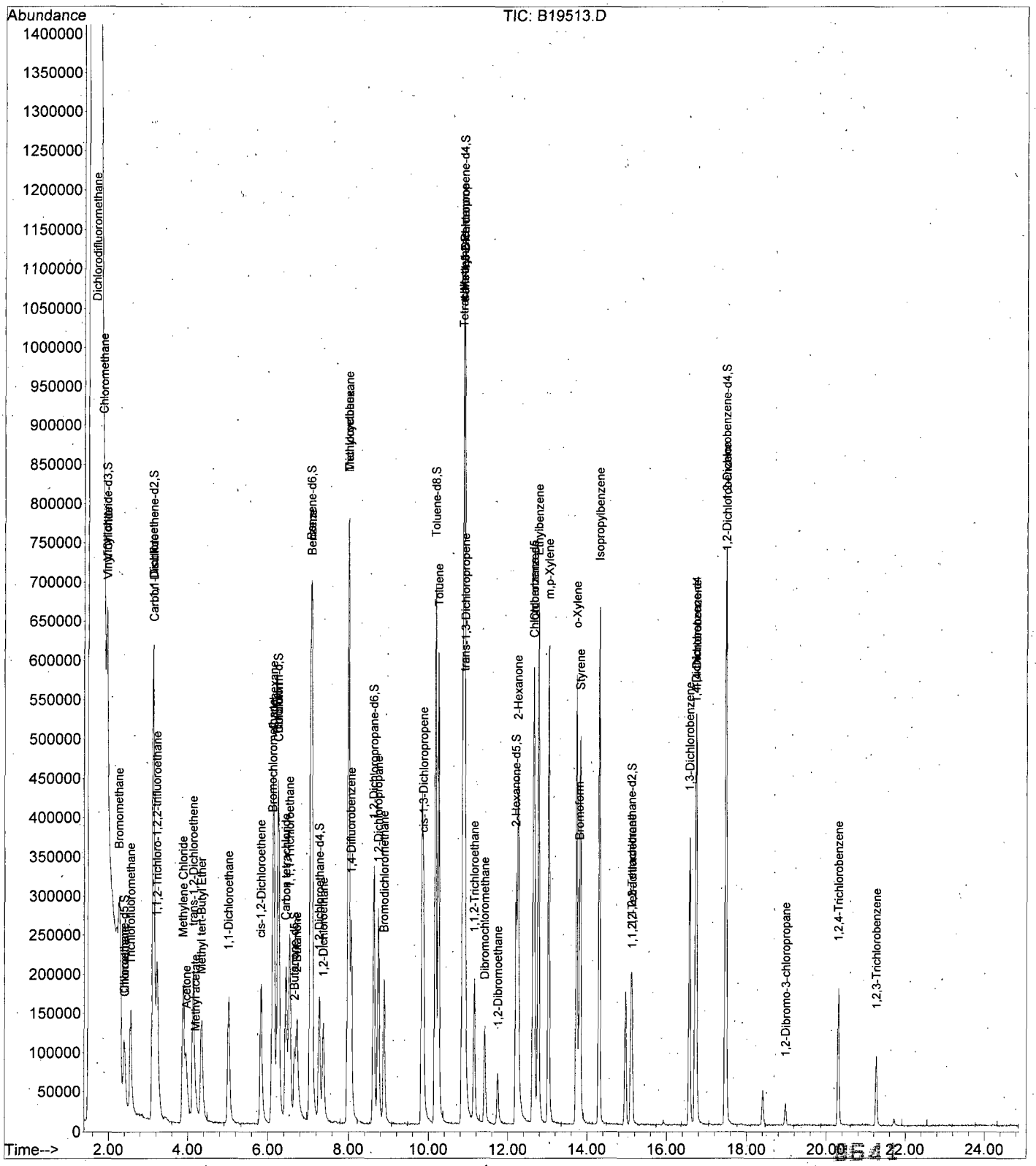
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0640

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19513.D
Acq On : 11/26/08 07:14 Operator: SB
Sample : VSTD00590 Inst : B-5973
Misc : VSTD00590 25ML
ALS Vial : 2 Sample Multiplier: 1

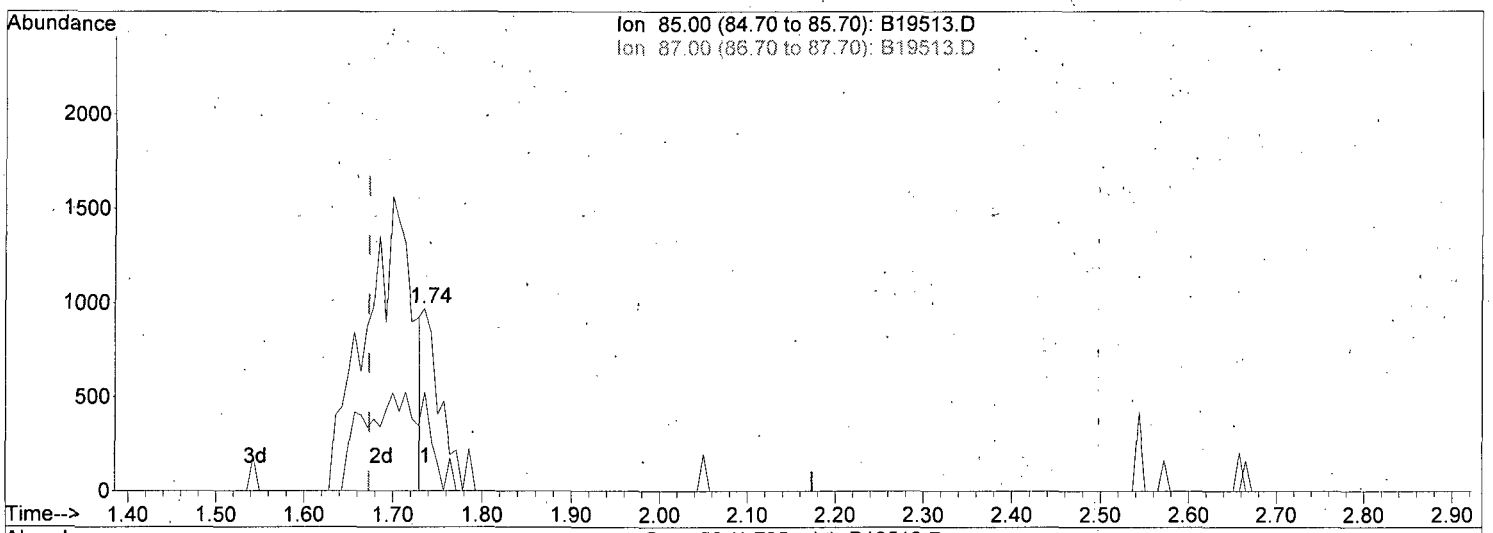
Quant Time: Nov 28 14:34:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 09:13:16 2008
Response via : Initial Calibration

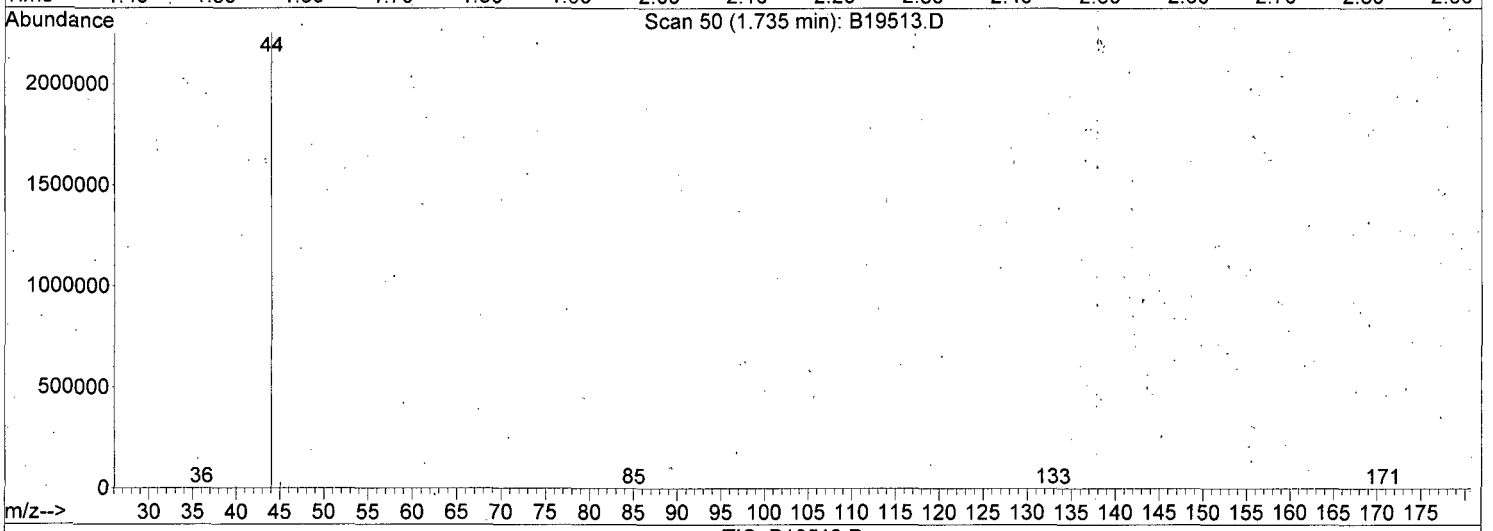


Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19513.D
Acq On : 11/26/08 07:14 Operator: SB
Sample : VSTD00590 Inst : B-5973
Misc : VSTD00590 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 09:13:28 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 09:13:16 2008
Response via : Initial Calibration





TIC: B19513.D

(2) Dichlorodifluoromethane

1.737min (+0.063) 1.55ug/L

response 17290

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	27.09
0.00	0.00	0.00
0.00	0.00	0.00

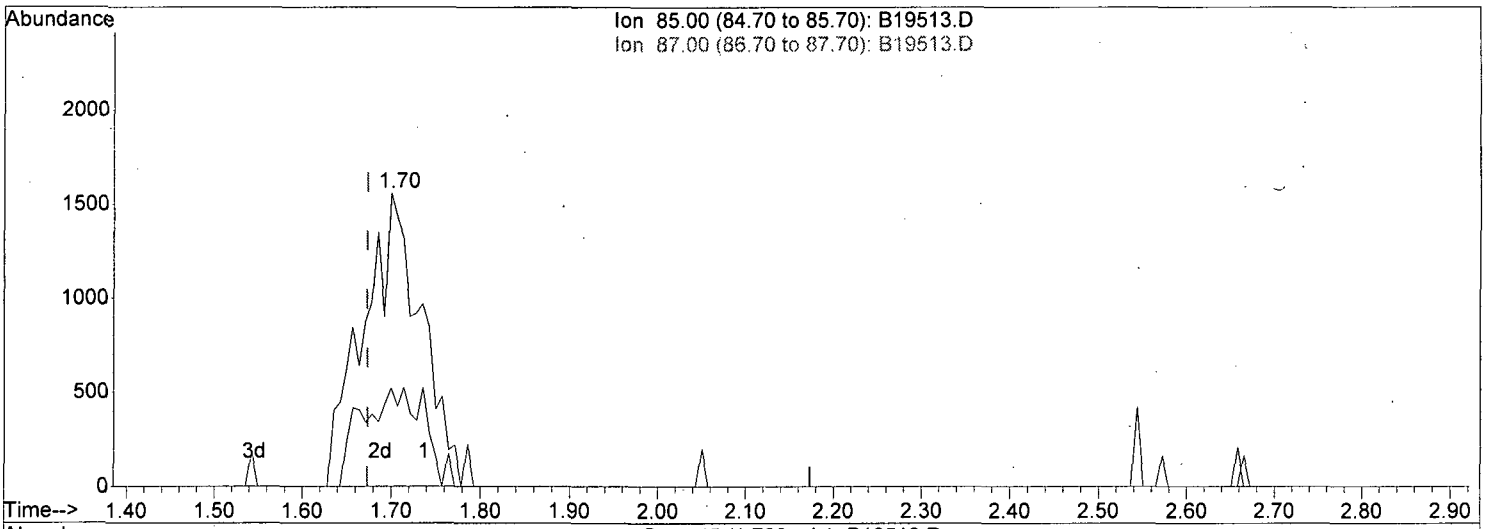
0642

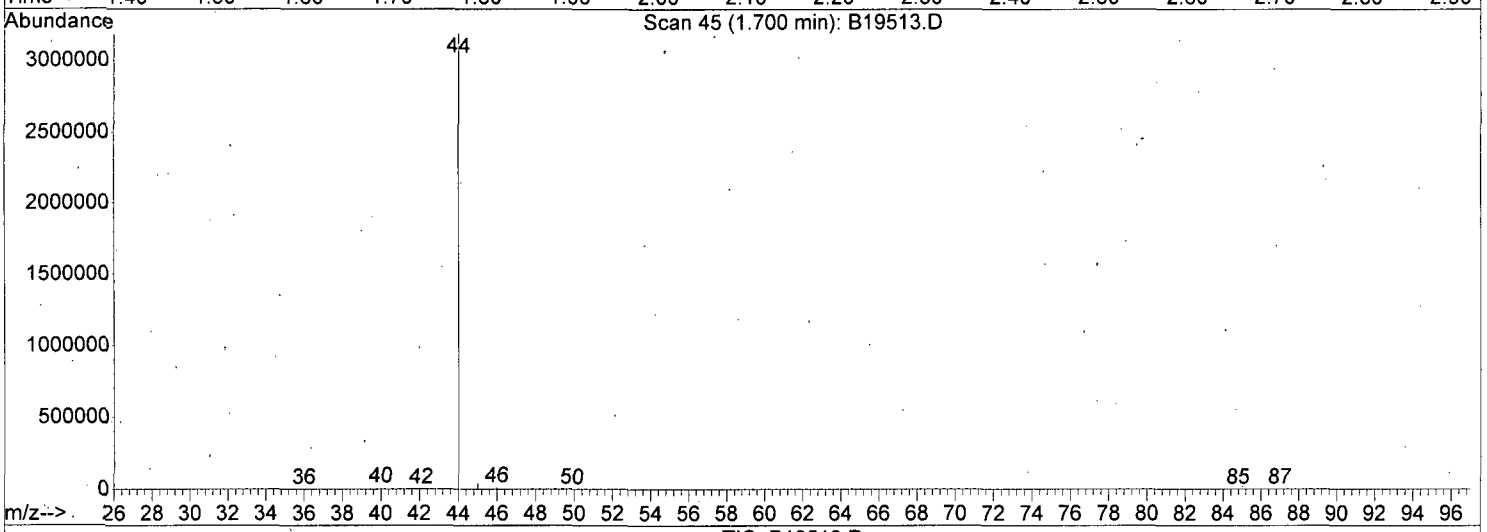
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19513.D
Acq On : 11/26/08 07:14 Operator: SB
Sample : VSTD00590 Inst : B-5973
Misc : VSTD00590 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 27 09:13:28 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 09:13:16 2008
Response via : Initial Calibration

11/28/08





TIC: B19513.D

(2) Dichlorodifluoromethane

1.700min (+0.026) 6.35ug/L m

response 70822

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	6.61#
0.00	0.00	0.00
0.00	0.00	0.00

0643

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 0754

Lab File ID: B19515 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00591 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.0196	0.0187	0.010	-4.6	40.0
Chloromethane	0.6346	0.5534	0.010	-12.8	40.0
Vinyl chloride	0.8304	0.8006	0.100	-3.6	30.0
Bromomethane	0.2540	0.2348	0.100	-7.6	30.0
Chloroethane	0.2795	0.2757	0.010	-1.4	40.0
Trichlorofluoromethane	0.6161	0.6913	0.010	12.2	40.0
1,1-Dichloroethene	0.5763	0.5357	0.100	-7.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.6199	0.5813	0.010	-6.2	40.0
Acetone	0.0731	0.0776	0.010	6.2	40.0
Carbon disulfide	1.6720	1.6221	0.010	-3.0	40.0
Methyl acetate	0.2087	0.2143	0.010	2.7	40.0
Methylene chloride	0.6069	0.5515	0.010	-9.1	40.0
trans-1,2-Dichloroethene	0.5747	0.5147	0.010	-10.4	40.0
Methyl tert-butyl ether	0.8233	0.7516	0.010	-8.7	40.0
1,1-Dichloroethane	1.1648	1.0967	0.200	-5.8	30.0
cis-1,2-Dichloroethene	0.5822	0.5039	0.010	-13.4	40.0
2-Butanone	0.1129	0.1194	0.010	5.8	40.0
Bromochloromethane	0.2461	0.2308	0.050	-6.2	30.0
Chloroform	1.0754	1.0149	0.200	-5.6	30.0
1,1,1-Trichloroethane	1.0937	1.0597	0.100	-3.1	30.0
Cyclohexane	1.3376	1.3007	0.010	-2.8	40.0
Carbon tetrachloride	0.9274	0.8993	0.100	-3.0	30.0
Benzene	2.9279	2.9292	0.400	0.0	30.0
1,2-Dichloroethane	0.6328	0.6344	0.100	0.3	30.0
Trichloroethene	0.7454	0.8029	0.300	7.7	30.0
Methylcyclohexane	1.2220	1.1213	0.010	-8.2	40.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 0754

Lab File ID: B19515 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No. (VSTD#####): VSTD00591 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.7173	0.6995	0.010	-2.5	40.0
Bromodichloromethane	0.8164	0.8148	0.200	-0.2	30.0
cis-1,3-Dichloropropene	0.9866	0.9771	0.200	-1.0	30.0
4-Methyl-2-pentanone	0.3191	0.3712	0.010	16.3	40.0
Toluene	3.0127	2.8412	0.400	-5.7	30.0
trans-1,3-Dichloropropene	0.8312	0.8678	0.100	4.4	30.0
1,1,2-Trichloroethane	0.4201	0.3973	0.100	-5.4	30.0
Tetrachloroethene	0.6575	0.5616	0.100	-14.6	30.0
2-Hexanone	0.2095	0.2442	0.010	16.6	40.0
Dibromochloromethane	0.4860	0.4551	0.100	-6.4	30.0
1,2-Dibromoethane	0.3624	0.3315	0.010	-8.5	40.0
Chlorobenzene	1.8888	1.6693	0.500	-11.6	30.0
Ethylbenzene	3.3329	3.0315	0.100	-9.0	30.0
o-Xylene	1.1139	0.9366	0.300	-15.9	30.0
m,p-Xylene	1.2530	1.0896	0.300	-13.0	30.0
Styrene	1.6802	1.5245	0.300	-9.3	30.0
Bromoform	0.6124	0.6190	0.050	1.1	30.0
Isopropylbenzene	3.0575	2.6724	0.010	-12.6	40.0
1,1,2,2-Tetrachloroethane	0.4370	0.4250	0.100	-2.7	30.0
1,3-Dichlorobenzene	2.8229	2.3680	0.400	-16.1	30.0
1,4-Dichlorobenzene	3.0834	2.5935	0.400	-15.9	30.0
1,2-Dichlorobenzene	2.5230	2.2731	0.400	-9.9	30.0
1,2-Dibromo-3-chloropropane	0.1238	0.1131	0.010	-8.6	40.0
1,2,4-Trichlorobenzene	1.0720	0.8824	0.200	-17.7	30.0
1,2,3-Trichlorobenzene	0.5064	0.4606	0.200	-9.0	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 0754

Lab File ID: B19515 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00591 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.7114	0.7542	0.010	6.0	30.0
Chloroethane-d5	0.3225	0.3515	0.010	9.0	40.0
1,1-Dichloroethene-d2	1.4297	1.5054	0.010	5.3	30.0
2-Butanone-d5	0.0747	0.0823	0.010	10.2	40.0
Chloroform-d	1.4133	1.4647	0.010	3.6	30.0
1,2-Dichloroethane-d4	0.6471	0.7126	0.010	10.1	30.0
Benzene-d6	3.1947	3.5023	0.010	9.6	30.0
1,2-Dichloropropane-d6	0.9667	1.0389	0.010	7.5	40.0
Toluene-d8	2.8909	2.9796	0.010	3.1	30.0
trans-1,3-Dichloropropene-d4	0.8915	1.0186	0.010	14.3	30.0
2-Hexanone-d5	0.0609	0.0654	0.010	7.4	40.0
1,1,2,2-Tetrachloroethane-d2	0.5343	0.5590	0.010	4.6	30.0
1,2-Dichlorobenzene-d4	1.9535	1.8939	0.010	-3.1	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Continuing Calibration Report B-5973

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 14:37:53 2008
Response Via : Initial Calibration

CC Data File: B19515.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
1		1,4-Difluorobenzene	1.000	1.000	0.0	58
2		Dichlorodifluoromethane	0.020	0.019	4.2	48#
3		Chloromethane	0.635	0.553	12.8	52
4	S	Vinyl chloride-d3	0.711	0.754	-6.0	62
5		Vinyl Chloride	0.830	0.801	3.6	56
6		Bromomethane	0.254	0.235	7.6	57
7	S	Chloroethane-d5	0.323	0.351	-9.0	66
8		Chloroethane	0.279	0.276	1.3	57
9		Trichlorofluoromethane	0.616	0.691	-12.2	65
10	S	1,1-Dichloroethene-d2	1.430	1.505	-5.3	61
11		1,1-Dichloroethene	0.576	0.536	7.1	55
12		1,1,2-Trichloro-1,2,2-trifluo	0.620	0.581	6.2	55
13		Acetone	0.073	0.078	-6.1	59
14		Carbon Disulfide	1.672	1.622	3.0	56
15		Methyl acetate	0.209	0.214	-2.7	56
16		Methylene Chloride	0.607	0.552	9.1	55
17		trans-1,2-Dichloroethene	0.575	0.515	10.5	53
18		Methyl tert-Butyl Ether	0.823	0.752	8.7	50#
19		1,1-Dichloroethane	1.165	1.097	5.8	54
20		cis-1,2-Dichloroethene	0.582	0.504	13.4	51
21	S	2-Butanone-d5	0.075	0.082	-10.2	53
22		2-Butanone	0.113	0.119	-5.8	56
23		Bromochloromethane	0.246	0.231	6.2	53
24	S	Chloroform-d	1.413	1.465	-3.6	60
25		Chloroform	1.075	1.015	5.6	54
26	S	1,2-Dichloroethane-d4	0.647	0.713	-10.1	61
27		1,2-Dichloroethane	0.633	0.634	-0.3	56
28		Chlorobenzene-d5	1.000	1.000	0.0	53
29		1,1,1-Trichloroethane	1.094	1.060	3.1	52
30		Cyclohexane	1.338	1.301	2.8	50
31		Carbon tetrachloride	0.927	0.899	3.0	52
32	S	Benzene-d6	3.195	3.502	-9.6	58
33		Benzene	2.928	2.929	-0.0	52
34		Trichloroethene	0.745	0.803	-7.7	54
35		Methylcyclohexane	1.222	1.121	8.2	48#
36	S	1,2-Dichloropropane-d6	0.967	1.039	-7.5	57
37		1,2-Dichloropropane	0.717	0.699	2.5	52
38		Bromodichloromethane	0.816	0.815	0.2	52
39		cis-1,3-Dichloropropene	0.987	0.977	1.0	49#
40		4-Methyl-2-Pentanone	0.319	0.371	-16.3	55
41	S	Toluene-d8	2.891	2.980	-3.1	53
42		Toluene	3.013	2.841	5.7	49#
43	S	trans-1,3-Dichloropropene-d4	0.891	1.019	-14.3	57
44		trans-1,3-Dichloropropene	0.831	0.868	-4.4	54
45		1,1,2-Trichloroethane	0.420	0.397	5.4	49#
46		Tetrachloroethene	0.658	0.562	14.6	47#
47	S	2-Hexanone-d5	0.061	0.065	-7.4	44#
48		2-Hexanone	0.209	0.244	-16.6	52
49		Dibromochloromethane	0.486	0.455	6.4	48#
50		1,2-Dibromoethane	0.362	0.331	8.5	47#
51		Chlorobenzene	1.889	1.669	11.6	46#
52		Ethylbenzene	3.333	3.031	9.0	47#
53		m,p-Xylene	1.253	1.090	13.0	45#
54		o-Xylene	1.114	0.937	15.9	43#
55		Styrene	1.680	1.524	9.3	45#
56		Isopropylbenzene	3.058	2.672	12.6	45#

Method Path : C:\MSDCHEM\1\METHODS\
Method File : CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
Last Update : Fri Nov 28 14:37:53 2008
Response Via : Initial Calibration

CC Data File: B19515.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%
57	S	1,1,2,2-Tetrachloroethane-d2	0.534	0.559	-4.6	54
58		1,1,2,2-Tetrachloroethane	0.437	0.425	2.8	49#
59		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	52
60		Bromoform	0.612	0.619	-1.1	49#
61		1,3-Dichlorobenzene	2.823	2.368	16.1	44#
62		1,4-Dichlorobenzene	3.083	2.594	15.9	44#
63	S	1,2-Dichlorobenzene-d4	1.954	1.894	3.1	51
64		1,2-Dichlorobenzene	2.523	2.273	9.9	46#
65		1,2-Dibromo-3-chloropropane	0.124	0.113	8.7	44#
66		1,2,4-Trichlorobenzene	1.072	0.882	17.7	46#
67		1,2,3-Trichlorobenzene	0.506	0.461	9.0	56

(#) = Out of Range SPCC's out = 0 CCC's out = 0

0648

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19515.D
Acq On : 11/26/08 07:54
Sample : VSTD00591
Misc : VSTD00591 25ML
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 12/28/08

Quant Time: Nov 26 13:25:13 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 08:17:26 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	2704583	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	2141885	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	949829	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2039807	5.30	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 106.00%			
7) Chloroethane-d5	2.39	69	950539	5.45	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 109.00%			
10) 1,1-Dichloroethene-d2	3.13	63	4071511	5.27	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 105.40%#			
21) 2-Butanone-d5	6.67	46	2226386	55.09	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 110.18%			
24) Chloroform-d	6.26	84	3961303	5.18	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 103.60%			
26) 1,2-Dichloroethane-d4	7.28	65	1927408	5.60	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 112.00%			
32) Benzene-d6	7.06	84	7501525	5.48	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 109.60%			
36) 1,2-Dichloropropane-d6	8.64	67	2225146	5.37	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 107.40%			
41) Toluene-d8	10.18	98	6381975	5.15	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 103.00%			
43) trans-1,3-Dichloropropene-	10.90	79	2181805	5.71	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 114.20%			
47) 2-Hexanone-d5	12.20	63	1401334	53.68	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 107.36%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1197277	5.23	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 104.60%			
63) 1,2-Dichlorobenzene-d4	17.48	152	1798850	4.85	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 97.00%			

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.71	85	50684	4.79 ug/L	95
3) Chloromethane	1.87	50	1496677	4.36 ug/L	96
5) Vinyl Chloride	1.97	62	2165271	4.82 ug/L	98
6) Bromomethane	2.28	94	635029	4.62 ug/L	93
8) Chloroethane	2.42	64	745703	4.93 ug/L	96
9) Trichlorofluoromethane	2.57	101	1869590	5.61 ug/L	99
11) 1,1-Dichloroethene	3.14	96	1448810	4.66 ug/L	96
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	1572171	4.69 ug/L	95
13) Acetone	3.97	43	2097632	53.22 ug/L	99
14) Carbon Disulfide	3.15	76	4387073	4.84 ug/L	97
15) Methyl acetate	4.20	43	579694m	5.12 ug/L	
16) Methylene Chloride	3.89	84	1491667	4.54 ug/L	93
17) trans-1,2-Dichloroethene	4.15	96	1391914	4.48 ug/L	98
18) Methyl tert-Butyl Ether	4.36	73	2032716	4.56 ug/L	96
19) 1,1-Dichloroethane	5.03	63	2966212	4.71 ug/L	99
20) cis-1,2-Dichloroethene	5.84	96	1362838	4.33 ug/L	94
22) 2-Butanone	6.73	43	3229304	52.88 ug/L	95
23) Bromochloromethane	6.12	128	624340	4.69 ug/L	90
25) Chloroform	6.27	83	2744807	4.72 ug/L	99
27) 1,2-Dichloroethane	7.38	62	1715849	5.01 ug/L	96
29) 1,1,1-Trichloroethane	6.55	97	2269726	4.84 ug/L	95
30) Cyclohexane	6.15	56	2785875	4.87 ug/L	99
31) Carbon tetrachloride	6.46	117	1926228	4.85 ug/L	98

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19515.D
Acq On : 11/26/08 07:54 Operator: SB
Sample : VSTD00591 Inst : B-5973
Misc : VSTD00591 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 13:25:13 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 08:17:26 2008
Response via : Initial Calibration

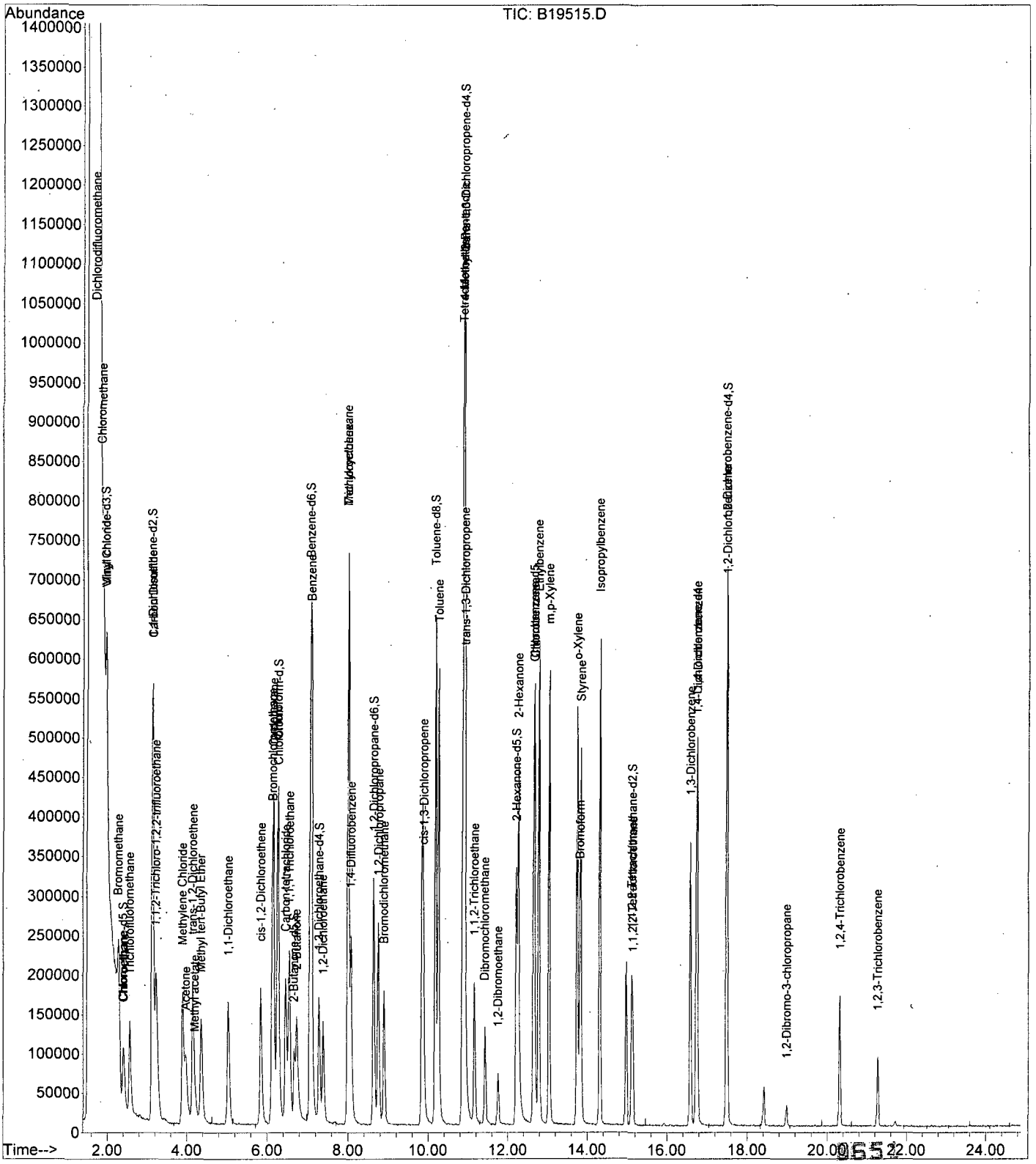
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	7.10	78	6273935	5.00	ug/L		100
34) Trichloroethene	8.00	95	1719809	5.39	ug/L		96
35) Methylcyclohexane	8.00	83	2401800	4.59	ug/L		94
37) 1,2-Dichloropropane	8.75	63	1498179	4.88	ug/L		100
38) Bromodichloromethane	8.89	83	1745172	4.99	ug/L		97
39) cis-1,3-Dichloropropene	9.88	75	2092807	4.95	ug/L		99
40) 4-Methyl-2-Pentanone	10.89	43	7949765	58.15	ug/L		96
42) Toluene	10.25	91	6085467	4.71	ug/L		99
44) trans-1,3-Dichloropropene	10.92	75	1858727	5.22	ug/L		99
45) 1,1,2-Trichloroethane	11.16	97	851026	4.73	ug/L		98
46) Tetrachloroethene	10.86	164	1202812	4.27	ug/L		97
48) 2-Hexanone	12.26	43	5231195	58.30	ug/L	#	94
49) Dibromochloromethane	11.42	129	974794	4.68	ug/L		97
50) 1,2-Dibromoethane	11.75	107	710022	4.57	ug/L		94
51) Chlorobenzene	12.66	112	3575408	4.42	ug/L		97
52) Ethylbenzene	12.77	91	6493112	4.55	ug/L		98
53) m,p-Xylene	13.03	106	2333713	4.35	ug/L		94
54) o-Xylene	13.74	106	2006074	4.20	ug/L		90
55) Styrene	13.83	104	3265266	4.54	ug/L		96
56) Isopropylbenzene	14.31	105	5723996	4.37	ug/L		97
58) 1,1,2,2-Tetrachloroethane	15.14	83	910208	4.86	ug/L		96
60) Bromoform	13.80	173	587903	5.05	ug/L		99
61) 1,3-Dichlorobenzene	16.58	146	2249148	4.19	ug/L		99
62) 1,4-Dichlorobenzene	16.75	146	2463407	4.21	ug/L		99
64) 1,2-Dichlorobenzene	17.49	146	2159057	4.50	ug/L		99
65) 1,2-Dibromo-3-chloropropan	18.98	75	107411	4.61	ug/L		96
66) 1,2,4-Trichlorobenzene	20.31	180	838140	4.12	ug/L		98
67) 1,2,3-Trichlorobenzene	21.27	180	437495	4.55	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0650

Data File: C:\MSDChem\1\DATA\B19515.D
Acq On : 11/26/08 07:54 Operator: SB
Sample : VSTD00591 Inst : B-5973
Misc : VSTD00591 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 13:25:13 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 08:17:26 2008
Response via : Initial Calibration

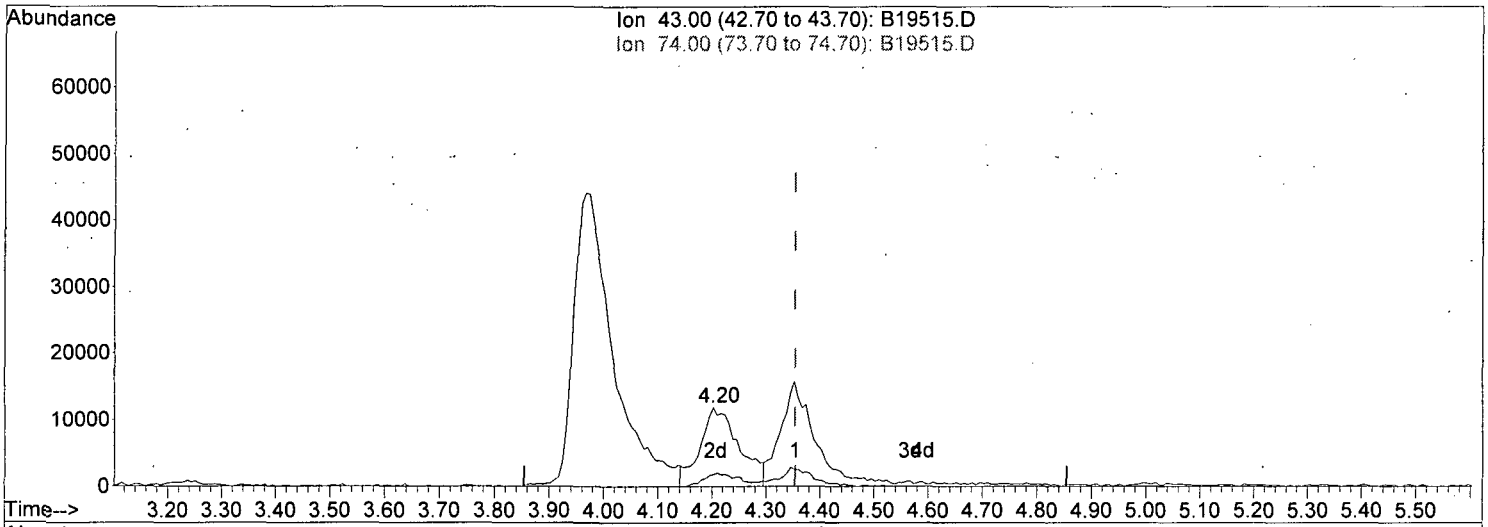


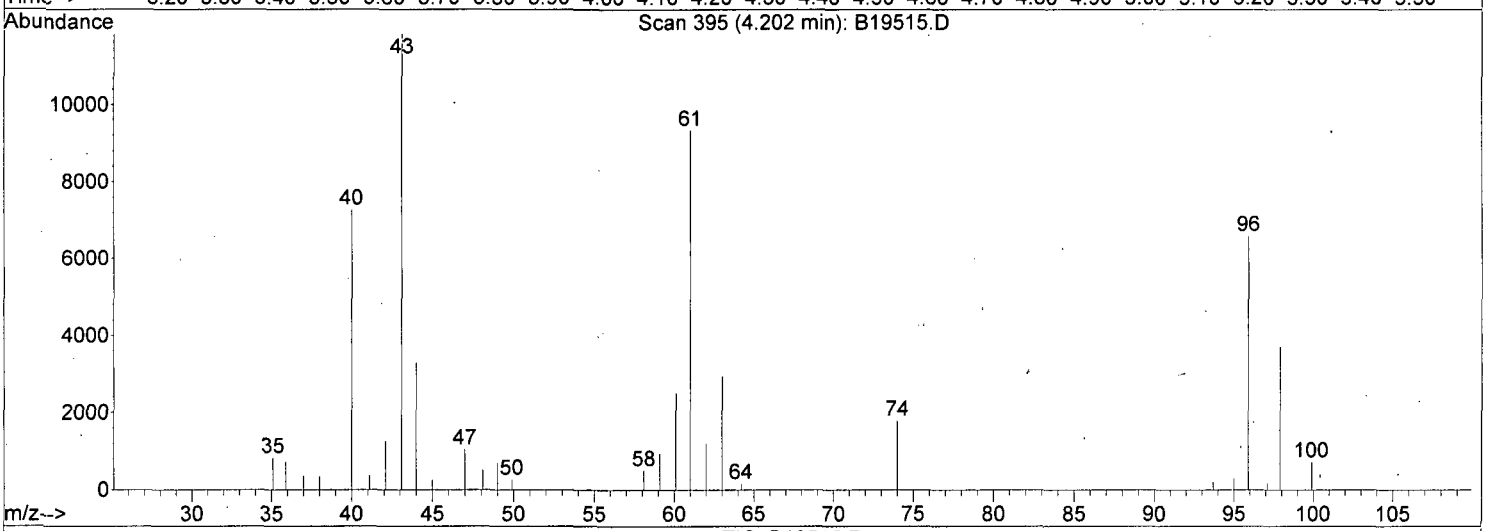
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19515.D
Acq On : 11/26/08 07:54 Operator: SB
Sample : VSTD00591 Inst : B-5973
Misc : VSTD00591 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 26 13:25:13 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 08:17:26 2008
Response via : Initial Calibration

11/28/08





TIC: B19515.D

(15) Methyl acetate

4.202min (-0.152) 5.12ug/L m

response 579694

Ion	Exp%	Act%
43.00	100	100
74.00	21.70	21.32
0.00	0.00	0.00
0.00	0.00	0.00

0652

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 1803

Lab File ID: B19530 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00592 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.0196	0.0212	0.010	8.2	50.0
Chloromethane	0.6346	0.5969	0.010	-5.9	50.0
Vinyl chloride	0.8304	0.8761	0.010	5.5	50.0
Bromomethane	0.2540	0.2579	0.010	1.5	50.0
Chloroethane	0.2795	0.2996	0.010	7.2	50.0
Trichlorofluoromethane	0.6161	0.7608	0.010	23.5	50.0
1,1-Dichloroethene	0.5763	0.5820	0.010	1.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.6199	0.6321	0.010	2.0	50.0
Acetone	0.0731	0.0765	0.010	4.7	50.0
Carbon disulfide	1.6720	1.7362	0.010	3.8	50.0
Methyl acetate	0.2087	0.2096	0.010	0.4	50.0
Methylene chloride	0.6069	0.5686	0.010	-6.3	50.0
trans-1,2-Dichloroethene	0.5747	0.5387	0.010	-6.3	50.0
Methyl tert-butyl ether	0.8233	0.7412	0.010	-10.0	50.0
1,1-Dichloroethane	1.1648	1.1431	0.010	-1.9	50.0
cis-1,2-Dichloroethene	0.5822	0.5146	0.010	-11.6	50.0
2-Butanone	0.1129	0.1153	0.010	2.1	50.0
Bromochloromethane	0.2461	0.2325	0.010	-5.5	50.0
Chloroform	1.0754	1.0879	0.010	1.2	50.0
1,1,1-Trichloroethane	1.0937	1.0969	0.010	0.3	50.0
Cyclohexane	1.3376	1.3063	0.010	-2.3	50.0
Carbon tetrachloride	0.9274	0.9677	0.010	4.3	50.0
Benzene	2.9279	3.0646	0.010	4.7	50.0
1,2-Dichloroethane	0.6328	0.6758	0.010	6.8	50.0
Trichloroethene	0.7454	1.0516	0.010	41.1	50.0
Methylcyclohexane	1.2220	1.1740	0.010	-3.9	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2

VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 1803

Lab File ID: B19530 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00592 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.7173	0.7014	0.010	-2.2	50.0
Bromodichloromethane	0.8164	0.8581	0.010	5.1	50.0
cis-1,3-Dichloropropene	0.9866	0.9822	0.010	-0.4	50.0
4-Methyl-2-pentanone	0.3191	0.3742	0.010	17.3	50.0
Toluene	3.0127	2.9267	0.010	-2.9	50.0
trans-1,3-Dichloropropene	0.8312	0.8595	0.010	3.4	50.0
1,1,2-Trichloroethane	0.4201	0.4061	0.010	-3.3	50.0
Tetrachloroethene	0.6575	0.6014	0.010	-8.5	50.0
2-Hexanone	0.2095	0.2486	0.010	18.7	50.0
Dibromochloromethane	0.4860	0.4687	0.010	-3.6	50.0
1,2-Dibromoethane	0.3624	0.3416	0.010	-5.7	50.0
Chlorobenzene	1.8888	1.7375	0.010	-8.0	50.0
Ethylbenzene	3.3329	3.1388	0.010	-5.8	50.0
o-Xylene	1.1139	0.9604	0.010	-13.8	50.0
m,p-Xylene	1.2530	1.1194	0.010	-10.7	50.0
Styrene	1.6802	1.5590	0.010	-7.2	50.0
Bromoform	0.6124	0.6743	0.010	10.1	50.0
Isopropylbenzene	3.0575	2.7310	0.010	-10.7	50.0
1,1,2,2-Tetrachloroethane	0.4370	0.4346	0.010	-0.5	50.0
1,3-Dichlorobenzene	2.8229	2.4884	0.010	-11.8	50.0
1,4-Dichlorobenzene	3.0834	2.8061	0.010	-9.0	50.0
1,2-Dichlorobenzene	2.5230	2.4429	0.010	-3.2	50.0
1,2-Dibromo-3-chloropropane	0.1238	0.1220	0.010	-1.5	50.0
1,2,4-Trichlorobenzene	1.0720	0.9156	0.010	-14.6	50.0
1,2,3-Trichlorobenzene	0.5064	0.4903	0.010	-3.2	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Instrument ID: B-5973 Calibration Date: 11/26/2008 Time: 1803

Lab File ID: B19530 Init. Calib Date(s): 11/25/2008 11/25/2008

EPA Sample No.(VSTD#####): VSTD00592 Init. Calib Time(s): 1624 1940

Heated Purge: (Y/N) N GC Column: RTX-VMS ID: 0.25 (mm) Length: 30 (m)

Purge Volume: 25.0 (mL)

COMPOUND	RRF	RRF 5.0	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.7114	0.8271	0.010	16.3	50.0
Chloroethane-d5	0.3225	0.3975	0.010	23.3	50.0
1,1-Dichloroethene-d2	1.4297	1.6654	0.010	16.5	50.0
2-Butanone-d5	0.0747	0.0895	0.010	19.8	50.0
Chloroform-d	1.4133	1.5966	0.010	13.0	50.0
1,2-Dichloroethane-d4	0.6471	0.7297	0.010	12.8	50.0
Benzene-d6	3.1947	3.6983	0.010	15.8	50.0
1,2-Dichloropropane-d6	0.9667	1.0760	0.010	11.3	50.0
Toluene-d8	2.8909	3.1637	0.010	9.4	50.0
trans-1,3-Dichloropropene-d4	0.8915	1.0825	0.010	21.4	50.0
2-Hexanone-d5	0.0609	0.0768	0.010	26.1	50.0
1,1,2,2-Tetrachloroethane-d2	0.5343	0.6066	0.010	13.5	50.0
1,2-Dichlorobenzene-d4	1.9535	2.1082	0.010	7.9	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19530.D
Acq On : 11/26/08 18:03 Operator: SB
Sample : VSTD00592 Inst : B-5973
Misc : VSTD00592 25ML
ALS Vial : 8 Sample Multiplier: 1

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 12/28/08

Quant Time: Nov 28 14:52:27 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.09	114	2415816	5.00	ug/L	0.01
28) Chlorobenzene-d5	12.65	117	1943093	5.00	ug/L	0.01
59) 1,4-Dichlorobenzene-d4	16.74	152	826145	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	1.97	65	1998238	5.81	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 116.20%			
7) Chloroethane-d5	2.39	69	960403	6.16	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 123.20%			
10) 1,1-Dichloroethene-d2	3.13	63	4023282	5.82	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 116.40%#			
21) 2-Butanone-d5	6.68	46	2162683	59.91	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 119.82%			
24) Chloroform-d	6.26	84	3857187	5.65	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 113.00%			
26) 1,2-Dichloroethane-d4	7.29	65	1762777	5.64	ug/L	0.01
Spiked Amount 5.000	Range 78 - 129		Recovery = 112.80%			
32) Benzene-d6	7.07	84	7186218	5.79	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 115.80%			
36) 1,2-Dichloropropane-d6	8.64	67	2090836	5.57	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 111.40%			
41) Toluene-d8	10.19	98	6147460	5.47	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 109.40%			
43) trans-1,3-Dichloropropene-	10.91	79	2103449	6.07	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 121.40%#			
47) 2-Hexanone-d5	12.22	63	1491583	62.98	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 125.96%			
57) 1,1,2,2-Tetrachloroethane-	15.12	84	1178678	5.68	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 113.60%			
63) 1,2-Dichlorobenzene-d4	17.49	152	1741683	5.40	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 108.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.69	85	51102m	5.41	ug/L	
3) Chloromethane	1.87	50	1442011	4.70	ug/L	99
5) Vinyl Chloride	1.97	62	2116467	5.28	ug/L	100
6) Bromomethane	2.28	94	623021	5.08	ug/L	95
8) Chloroethane	2.41	64	723825	5.36	ug/L	95
9) Trichlorofluoromethane	2.56	101	1838010	6.17	ug/L	97
11) 1,1-Dichloroethene	3.14	96	1405917	5.05	ug/L	97
12) 1,1,2-Trichloro-1,2,2-trif	3.23	101	1527145	5.10	ug/L	94
13) Acetone	3.98	43	1848902	52.33	ug/L	99
14) Carbon Disulfide	3.15	76	4194391	5.19	ug/L	97
15) Methyl acetate	4.22	43	506472	5.02	ug/L #	85
16) Methylene Chloride	3.90	84	1373687	4.68	ug/L	92
17) trans-1,2-Dichloroethene	4.15	96	1301440	4.69	ug/L	96
18) Methyl tert-Butyl Ether	4.37	73	1790630	4.50	ug/L	97
19) 1,1-Dichloroethane	5.04	63	2761407	4.91	ug/L	100
20) cis-1,2-Dichloroethene	5.85	96	1243115	4.42	ug/L	99
22) 2-Butanone	6.74	43	2786392	51.08	ug/L	97
23) Bromochloromethane	6.12	128	561565	4.72	ug/L #	86
25) Chloroform	6.28	83	2628199	5.06	ug/L	100
27) 1,2-Dichloroethane	7.39	62	1632531	5.34	ug/L	98
29) 1,1,1-Trichloroethane	6.56	97	2131367	5.01	ug/L	96
30) Cyclohexane	6.16	56	2538182	4.88	ug/L	100
31) Carbon tetrachloride	6.47	117	1880404	5.28	ug/L	96

Data File: C:\MSDChem\1\DATA\B19530.D
Acq On : 11/26/08 18:03 Operator: SB
Sample : VSTD00592 Inst : B-5973
Misc : VSTD00592 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 14:52:27 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

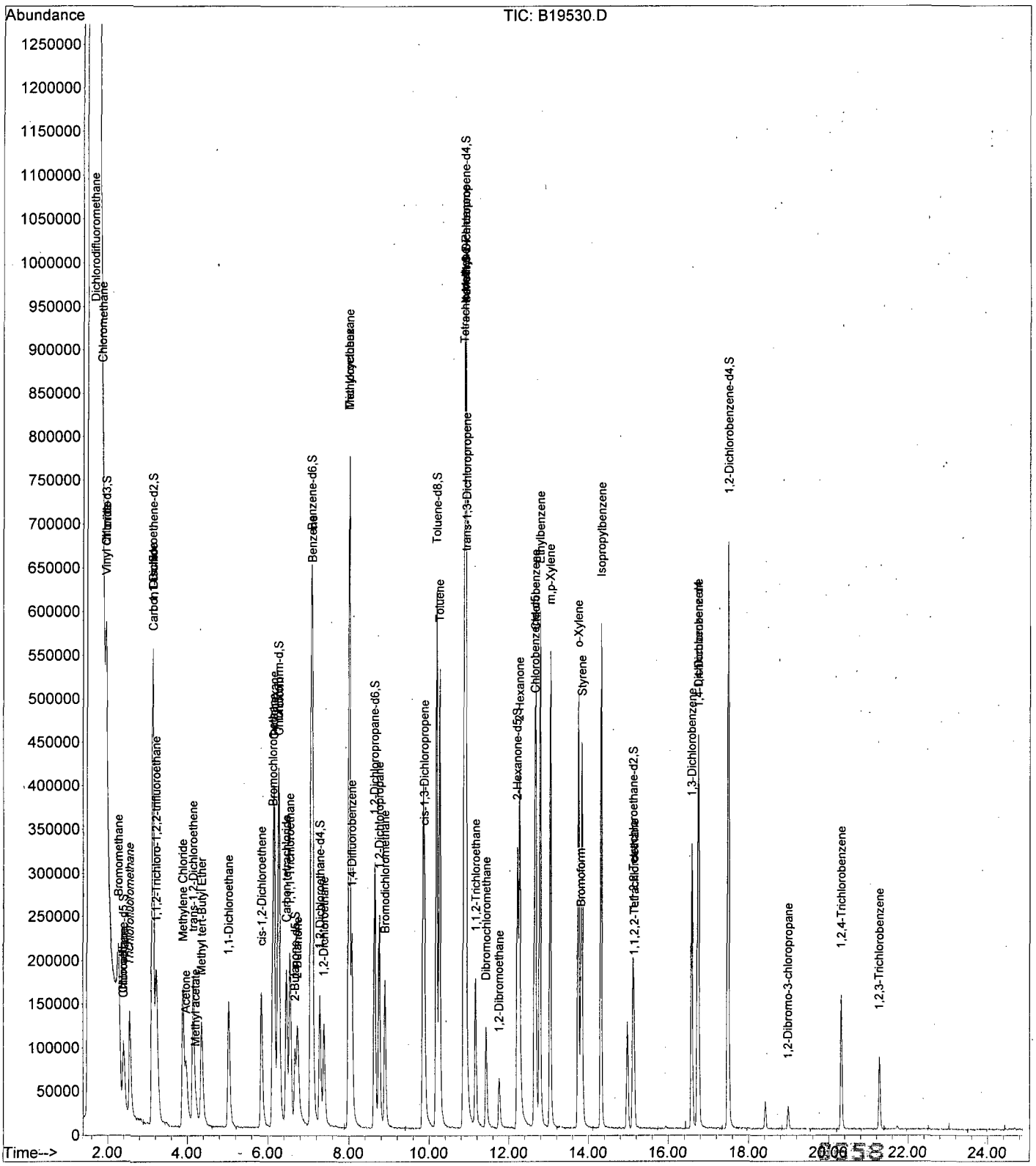
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Benzene	7.10	78	5954743	5.23	ug/L		100
34) Trichloroethene	8.01	95	2043303	7.05	ug/L		97
35) Methylcyclohexane	8.01	83	2281263	4.80	ug/L		96
37) 1,2-Dichloropropane	8.76	63	1362887	4.89	ug/L		100
38) Bromodichloromethane	8.90	83	1667377	5.26	ug/L		97
39) cis-1,3-Dichloropropene	9.89	75	1908495	4.98	ug/L		98
40) 4-Methyl-2-Pentanone	10.90	43	7271044	58.63	ug/L		93
42) Toluene	10.27	91	5686823	4.86	ug/L		99
44) trans-1,3-Dichloropropene	10.93	75	1670177	5.17	ug/L		99
45) 1,1,2-Trichloroethane	11.17	97	789039	4.83	ug/L		97
46) Tetrachloroethene	10.87	164	1168574	4.57	ug/L		98
48) 2-Hexanone	12.27	43	4829803	59.33	ug/L	#	92
49) Dibromochloromethane	11.44	129	910711	4.82	ug/L		96
50) 1,2-Dibromoethane	11.76	107	663835	4.71	ug/L		98
51) Chlorobenzene	12.68	112	3376195	4.60	ug/L		98
52) Ethylbenzene	12.79	91	6098990	4.71	ug/L		98
53) m,p-Xylene	13.04	106	2175120	4.47	ug/L		96
54) o-Xylene	13.75	106	1866093	4.31	ug/L		91
55) Styrene	13.84	104	3029332	4.64	ug/L		97
56) Isopropylbenzene	14.32	105	5306646	4.47	ug/L		97
58) 1,1,2,2-Tetrachloroethane	15.15	83	844386	4.97	ug/L		100
60) Bromoform	13.81	173	557036	5.51	ug/L	#	98
61) 1,3-Dichlorobenzene	16.59	146	2055786	4.41	ug/L		99
62) 1,4-Dichlorobenzene	16.76	146	2318225	4.55	ug/L		100
64) 1,2-Dichlorobenzene	17.50	146	2018193	4.84	ug/L		99
65) 1,2-Dibromo-3-chloropropan	18.99	75	100809	4.93	ug/L		98
66) 1,2,4-Trichlorobenzene	20.32	180	756415	4.27	ug/L		98
67) 1,2,3-Trichlorobenzene	21.28	180	405051	4.84	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0657

Data File: C:\MSDChem\1\DATA\B19530.D
Acq On : 11/26/08 18:03 Operator: SB
Sample : VSTD00592 Inst : B-5973
Misc : VSTD00592 25ML
ALS Vial : 8 Sample Multiplier: 1

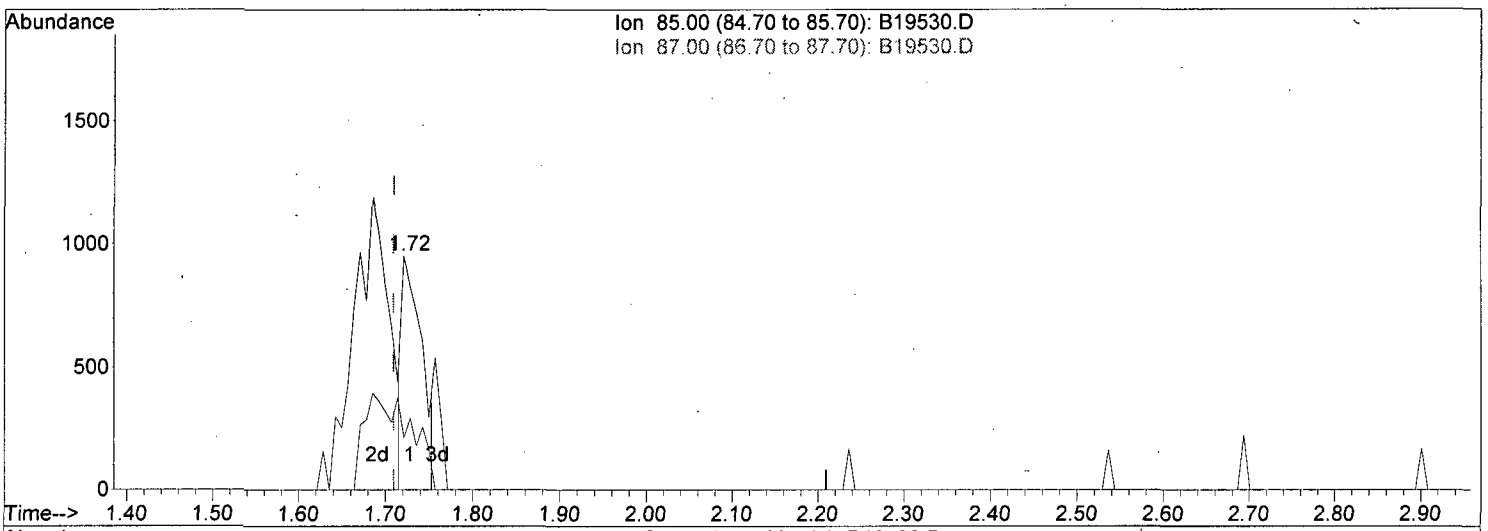
Quant Time: Nov 28 14:52:27 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

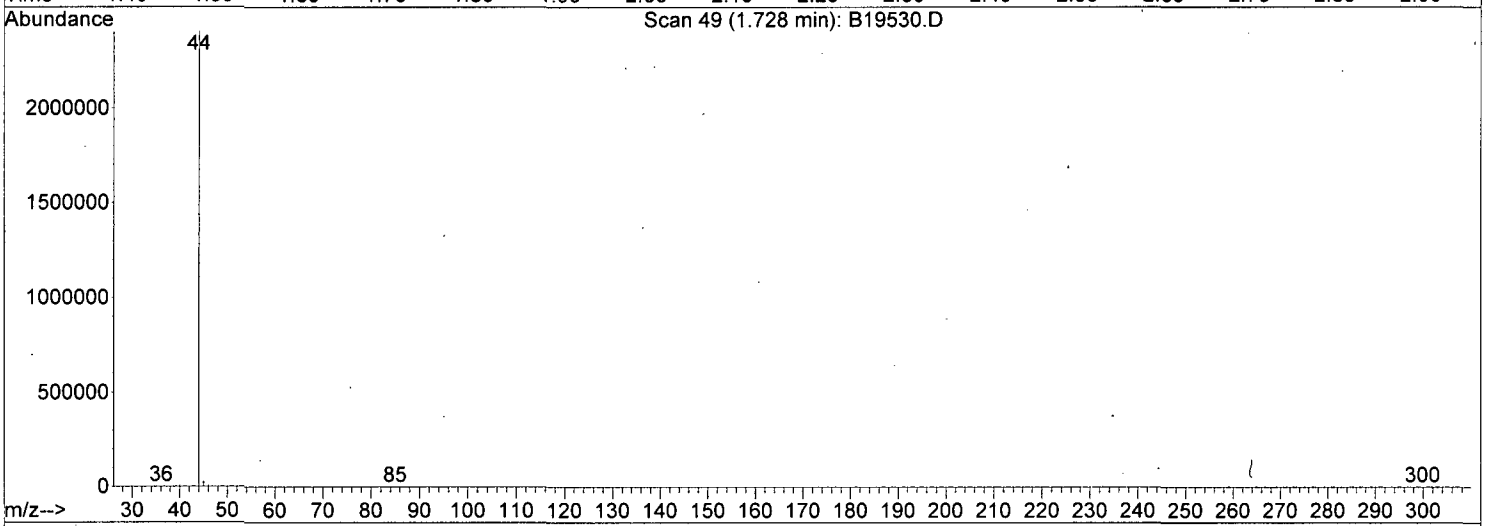


Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19530.D
Acq On : 11/26/08 18:03 Operator: SB
Sample : VSTD00592 Inst : B-5973
Misc : VSTD00592 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 14:51:47 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration





TIC: B19530.D

(2) Dichlorodifluoromethane

1.728min (+0.018) 1.65ug/L

response 15577

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

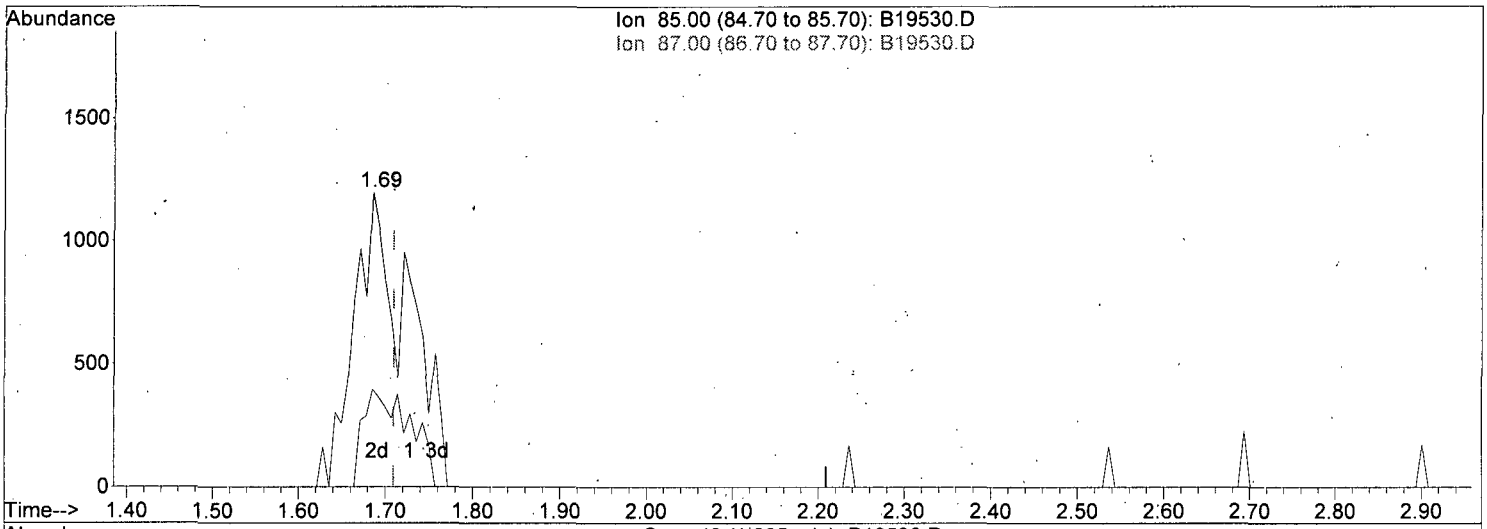
0659

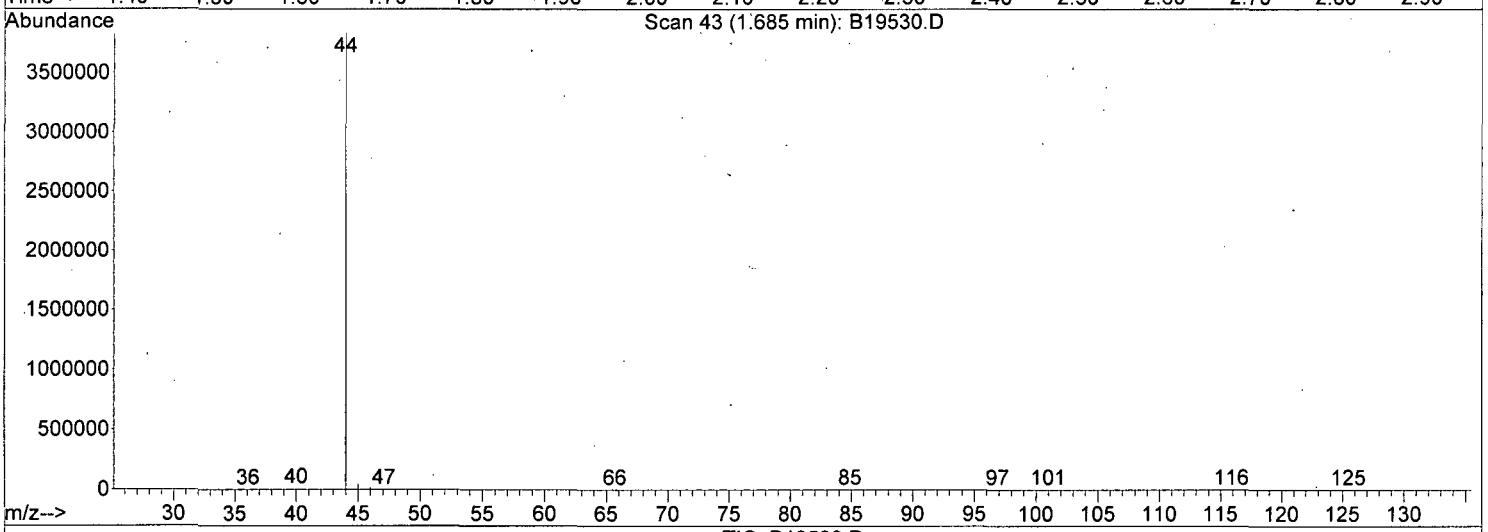
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19530.D
Acq On : 11/26/08 18:03 Operator: SB
Sample : VSTD00592 Inst : B-5973
Misc : VSTD00592 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 28 14:51:47 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Fri Nov 28 14:38:07 2008
Response via : Initial Calibration

11/28/08





TIC: B19530.D

(2) Dichlorodifluoromethane

1.685min (-0.024) 5.41ug/L m

response 51102

Ion	Exp%	Act%
85.00	100	100
87.00	29.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

0660

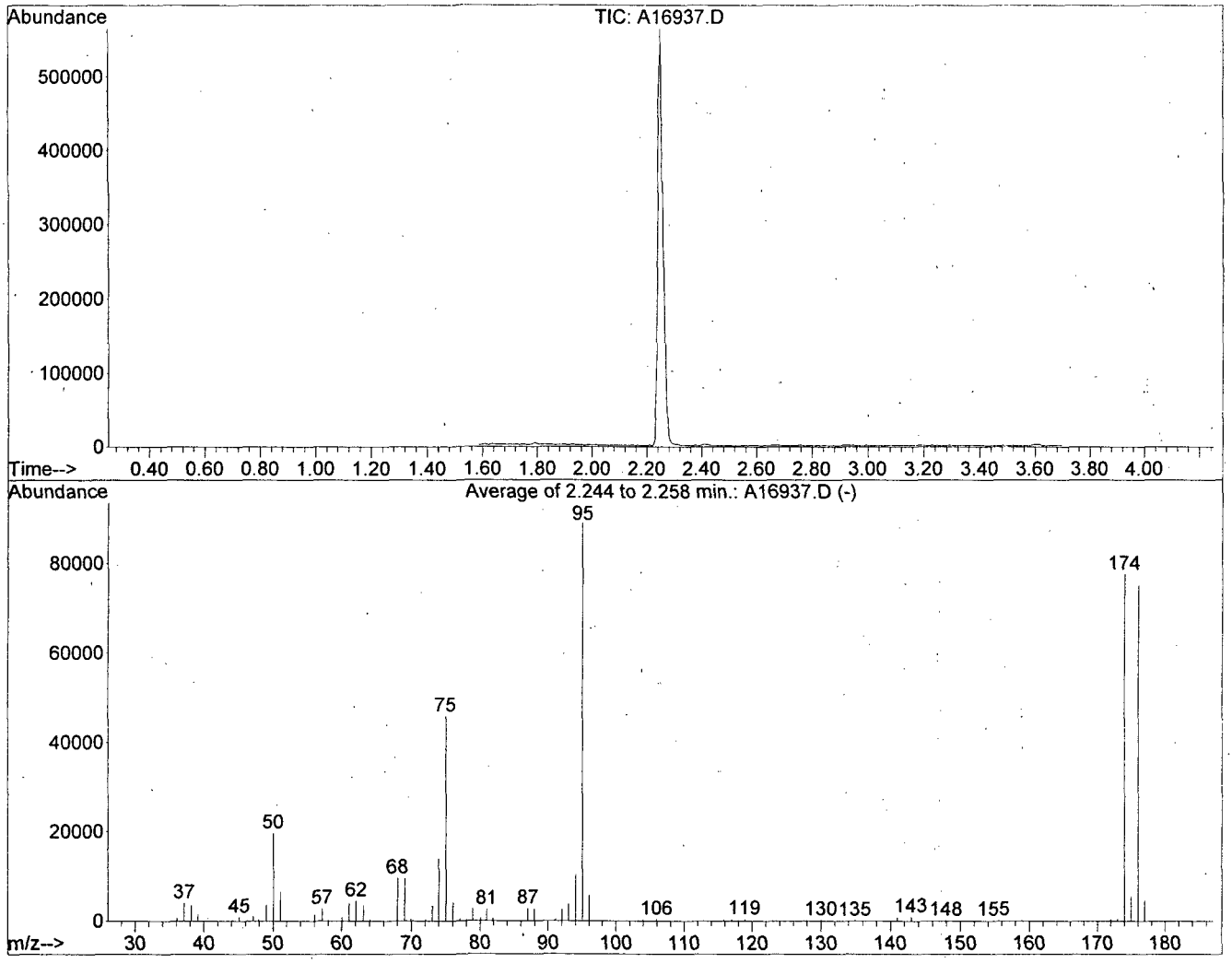
Data Path : C:\MSDChem\1\DATA\
Data File : A16937.D
Acq On : 11/24/08 07:28
Sample : BFB16
Misc : BFB16
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Thu Oct 11 18:57:01 2007

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 init/date: 11/26/08



AutoFind: Scans 93, 94, 95; Background Corrected with Scan 88

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	19694	PASS
75	95	30	80	51.5	45864	PASS
95	95	100	100	100.0	89040	PASS
96	95	5	9	6.6	5845	PASS
173	174	0.00	2	0.7	550	PASS
174	95	50	120	87.2	77610	PASS
175	174	5	9	7.3	5663	PASS
176	174	95	101	96.9	75184	PASS
177	176	5	9	6.2	4676	PASS

0661

Average of 2.244 to 2.258 min.: A16937.D
BFB16
Modified:subtracted

m/z	Abundance
36.05	730.0
37.10	4092.0
38.10	3611.0
39.10	1605.0
44.05	386.0
45.10	931.0
47.10	1101.0
47.90	444.0
48.10	101.0
49.05	3622.0
50.05	19694.0
51.10	6609.0
52.00	160.0
52.20	100.0
55.00	164.0
55.20	69.0
56.05	1479.0
57.10	2867.0
58.00	108.0
60.05	892.0
61.05	4174.0
62.05	4592.0
63.10	3583.0
64.05	356.0
64.85	196.0
65.10	185.0
66.90	174.0
68.00	9677.0
69.00	9620.0
69.90	463.0
70.20	253.0
70.80	85.0
72.05	310.0
73.05	3460.0
74.00	14006.0
75.00	45864.0
76.05	4241.0
77.05	525.0
78.00	444.0
78.90	2837.0
80.05	760.0
80.95	2637.0
81.90	618.0
87.00	2827.0
87.95	2708.0
91.05	459.0
92.00	2598.0
93.00	3857.0
94.00	10457.0
95.05	89040.0
96.00	5845.0
96.95	216.0
103.95	306.0
105.05	152.0
105.95	453.0
115.85	347.0
117.00	466.0
117.95	305.0
118.90	515.0
127.70	92.0
127.95	204.0
129.10	93.0
130.00	311.0
131.00	69.0
134.90	198.0
140.95	925.0
142.95	941.0
147.95	179.0
154.85	245.0
157.00	92.0
158.90	132.0
172.00	401.0
173.00	550.0
174.00	77610.0
175.00	5663.0
176.00	75184.0
177.00	4676.0

BFB

Data File: C:\MSDChem\1\DATA\A16937.D
Acq On :11/24/08 07 :28 Operator: SB.
Sample : BFB16 Inst :A - 5973
Misc : BFB16
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 94 (2.251 min): A16937.D
BFB16

BFB

Data File: C:\MSDChem\1\DATA\A16937.D
Acq On :11/24/08 07 :28 Operator: SB.
Sample : BFB16 Inst :A - 5973
Misc : BFB16
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

m/z	Abundance
36.00	751.0
37.10	4363.0
38.10	4102.0
39.10	1978.0
39.90	1853.0
44.10	957.0
45.10	1104.0
47.10	1351.0
47.80	673.0
49.00	4439.0
50.10	22272.0
51.10	7201.0
52.00	216.0
55.20	208.0
56.00	1847.0
57.10	3998.0
60.10	1027.0
61.10	4920.0
62.00	5743.0
63.10	3950.0
64.00	531.0
65.00	296.0
66.90	228.0
68.00	12057.0
69.00	12097.0
70.20	761.0
72.10	638.0
73.00	4231.0
74.00	17488.0
75.00	55184.0
76.10	5719.0
77.10	461.0
77.90	690.0
78.90	3602.0
80.00	938.0
80.90	3514.0
81.90	597.0
87.00	3439.0
87.90	3227.0
91.00	560.0
92.00	3137.0
93.00	4831.0
94.00	12775.0
95.00	111120.0
96.00	7600.0
96.90	381.0
104.00	472.0
105.10	234.0
105.90	627.0
115.90	515.0
117.00	566.0
118.00	314.0
118.80	661.0
128.00	284.0
129.10	280.0
130.00	536.0
134.90	328.0
141.00	1162.0
143.00	1222.0
148.00	250.0
154.90	491.0
158.90	396.0
172.10	526.0
173.00	830.0
174.00	103880.0
175.00	7857.0
176.00	98584.0
177.00	6183.0

Scan 93 (2.244 min): A16937.D
BFB16

m/z	Abundance
36.10	855.0
37.10	5163.0
38.10	4432.0
39.10	2067.0
40.00	1479.0
44.00	1061.0
45.10	1043.0
47.10	1325.0
48.00	661.0
49.10	4431.0
50.00	23992.0
51.10	8045.0
52.00	266.0
55.00	292.0
56.10	1622.0
57.10	2648.0
58.00	325.0
60.00	1202.0
61.00	4883.0
62.10	5201.0
63.10	4799.0
64.10	539.0
64.80	330.0
65.20	259.0
66.90	296.0
68.00	11197.0
69.00	10452.0
69.90	1049.0
70.80	257.0
72.00	294.0
73.10	3758.0
74.00	15827.0
75.00	53432.0
76.00	4724.0
77.00	481.0
78.00	382.0
79.00	3199.0
80.10	863.0
81.00	2925.0
81.90	835.0
87.00	3451.0
88.00	3066.0
91.00	398.0
92.00	2795.0
93.00	4301.0
94.00	12065.0
95.10	100712.0
96.00	6025.0
97.00	267.0
103.90	447.0
106.00	490.0
115.90	327.0
117.00	517.0
117.90	364.0
119.00	534.0
127.90	328.0
130.00	397.0
131.00	209.0
134.90	267.0
140.90	929.0
142.90	884.0
154.80	245.0
157.00	277.0
172.00	428.0
173.00	410.0
174.00	71936.0
175.00	5601.0
176.00	69088.0
177.00	4005.0

BFB

Data File: C:\MSDChem\1\DATA\A16937.D
Acq On :11/24/08 07 :28 Operator: SB
Sample : BFB16 Inst :A - 5973
Misc : BFB16
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 95 (2.258 min): A16937.D
BFB16

m/z	Abundance
36.10	585.0
37.00	2752.0
38.00	2301.0
39.10	770.0
40.00	1326.0
44.00	726.0
45.10	648.0
47.10	629.0
48.10	303.0
49.10	1998.0
50.10	12819.0
51.10	4583.0
52.20	302.0
55.00	201.0
56.10	970.0
57.10	1957.0
60.00	448.0
61.10	2721.0
62.10	2834.0
63.00	2002.0
64.90	260.0
68.10	5778.0
69.00	6313.0
70.00	341.0
73.10	2393.0
74.00	8703.0
75.00	28976.0
76.10	2281.0
77.00	634.0
78.10	261.0
78.80	1711.0
80.10	481.0
81.00	1473.0
81.90	422.0
87.00	1591.0
88.00	1833.0
91.10	421.0
92.00	1863.0
93.00	2439.0
94.10	6532.0
95.10	55288.0
96.00	3911.0
105.00	223.0
105.90	243.0
115.70	200.0
117.00	315.0
118.00	238.0
118.90	351.0
127.70	277.0
141.00	684.0
142.90	719.0
147.90	289.0
171.90	251.0
173.00	411.0
174.00	57016.0
175.00	3531.0
176.00	57880.0
177.00	3842.0

BFB

Data File: C:\MSDChem\1\DATA\A16937.D
Acq On :11/24/08 07 :28 Operator: SB.
Sample : BFB16 Inst :A - 5973
Misc : BFB16
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 88 (2.208 min): A16937.D
BFB16

m/z	Abundance
40.00	1779.0
44.10	528.0

BFB

Data File: C:\MSDChem\1\DATA\A16937.D
Acq On :11/24/08 07 :28 Operator: SB.
Sample : BFB16 Inst :A - 5973
Misc : BFB16
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

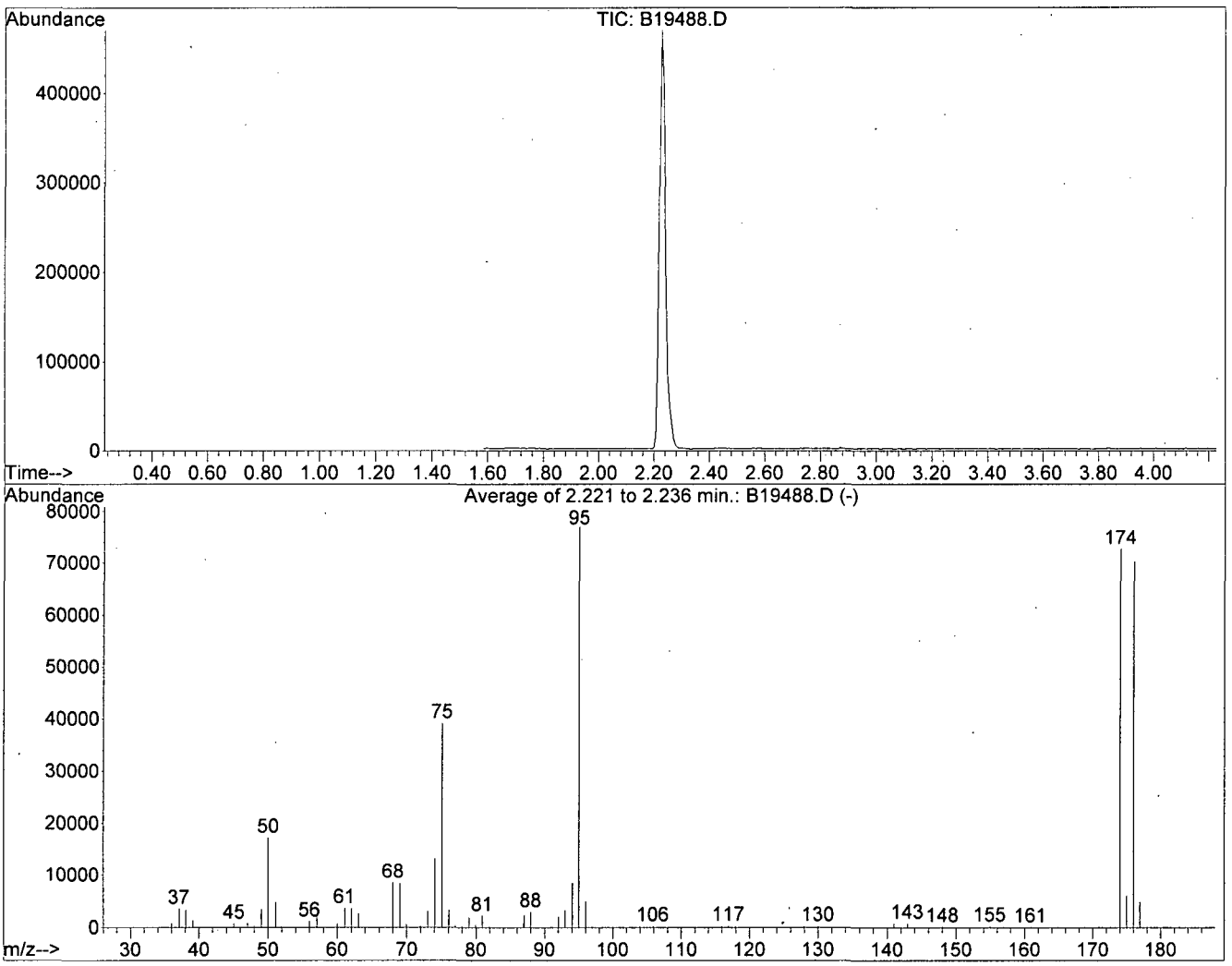
Data Path : C:\MSDChem\1\DATA\
Data File : B19488.D
Acq On : 11/25/08 15:36
Sample : BFB88
Misc : BFB88
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : B-5973

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Sat Aug 25 19:31:42 2007

ORIGINAL
Case: 38051 SDG: F2XE64
Episode: S2066 Init/date: 12/1/28/08



AutoFind: Scans 90, 91, 92; Background Corrected with Scan 84

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	17286	PASS
75	95	30	80	50.9	39178	PASS
95	95	100	100	100.0	77045	PASS
96	95	5	9	6.5	5003	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	94.4	72733	PASS
175	174	5	9	8.3	6046	PASS
176	174	95	101	96.6	70277	PASS
177	176	5	9	6.9	4846	PASS

0667

Average of 2.221 to 2.236 min.: B19488.D
BFB88
Modified:subtracted

BFB

Data File: C:\MSDChem\1\DATA\B19488.D
Acq On : 11/25/08 15:36 Operator: SB
Sample : BFB88 Inst :B-5973
Misc : BFB88
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.00	741.0
37.10	3577.0
38.10	3287.0
39.10	1384.0
44.00	180.0
45.10	769.0
47.05	930.0
48.00	476.0
49.05	3494.0
50.05	17286.0
51.10	4793.0
51.95	257.0
55.15	160.0
56.00	1154.0
57.05	2282.0
60.00	712.0
61.05	3675.0
62.05	3591.0
63.05	2563.0
64.05	162.0
66.90	55.0
67.10	104.0
68.00	8532.0
69.00	8356.0
69.95	607.0
71.95	371.0
73.05	3074.0
74.05	13238.0
75.05	39178.0
76.05	3312.0
77.00	455.0
77.95	350.0
79.00	1955.0
79.95	563.0
80.90	2235.0
81.95	308.0
86.90	852.0
87.05	2365.0
87.95	2978.0
90.95	190.0
91.20	71.0
92.05	2057.0
93.00	3288.0
94.05	8469.0
95.00	77045.0
96.05	5003.0
97.00	194.0
103.95	318.0
105.00	54.0
105.90	322.0
115.95	326.0
116.80	101.0
116.95	346.0
117.95	229.0
118.90	196.0
119.10	107.0
127.95	282.0
128.95	189.0
130.00	316.0
140.95	790.0
142.95	813.0
145.90	118.0
148.05	212.0
154.95	295.0
157.00	117.0
160.90	138.0
171.80	57.0
174.00	72733.0
175.00	6046.0
176.00	70277.0
176.95	4846.0
178.00	162.0

Scan 90 (2.221 min): B19488.D
BFB88

BFB

Data File: C:\MSDChem\1\DATA\B19488.D
Acq On : 11/25/08 15:36 Operator: SB
Sample : BFB88 Inst :B-5973
Misc : BFB88
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.00	644.0
37.10	3113.0
38.10	3009.0
39.10	1234.0
40.10	2038.0
44.00	755.0
45.10	715.0
47.00	888.0
48.00	455.0
49.10	3226.0
50.00	15481.0
51.10	4195.0
52.00	274.0
55.10	200.0
56.00	861.0
57.00	1633.0
60.00	628.0
61.00	3388.0
62.00	3251.0
63.10	2120.0
64.10	310.0
66.90	166.0
68.00	7384.0
69.00	7412.0
70.00	425.0
72.00	424.0
73.10	2419.0
74.00	11516.0
75.10	33824.0
76.00	2988.0
77.10	374.0
78.10	260.0
79.00	1644.0
79.90	376.0
80.90	1919.0
81.90	237.0
86.90	2557.0
87.90	2329.0
91.20	213.0
92.00	1459.0
93.00	3303.0
94.00	7074.0
95.00	64248.0
96.00	4323.0
97.00	152.0
103.90	279.0
105.90	205.0
116.00	277.0
116.80	303.0
118.00	203.0
118.90	223.0
127.90	210.0
129.00	184.0
130.00	235.0
140.90	861.0
143.00	678.0
148.00	179.0
154.90	277.0
174.00	51648.0
175.00	4451.0
176.00	51528.0
177.00	3956.0

Scan 91 (2.228 min): B19488.D
BFB88

BFB

Data File: C:\MSDChem\1\DATA\B19488.D
Acq On : 11/25/08 15:36 Operator: SB
Sample : BFB88 Inst :B-5973
Misc : BFB88
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.00	926.0
37.10	4435.0
38.10	3970.0
39.10	1924.0
40.00	2102.0
44.10	1203.0
45.10	931.0
47.00	1174.0
48.00	667.0
49.00	3893.0
50.10	20912.0
51.10	5864.0
51.90	278.0
55.20	281.0
56.00	1461.0
57.00	3024.0
60.00	782.0
61.10	4180.0
62.10	4235.0
63.00	3220.0
67.10	313.0
68.00	10011.0
69.00	9676.0
70.00	715.0
71.90	349.0
73.00	3594.0
74.10	15481.0
75.00	47112.0
76.10	3865.0
77.00	576.0
77.90	473.0
79.00	2615.0
80.00	581.0
80.90	2710.0
82.00	418.0
87.10	3557.0
87.90	3507.0
90.90	251.0
92.00	2490.0
93.00	3554.0
94.10	10292.0
95.00	90944.0
96.10	5998.0
96.90	260.0
104.00	376.0
105.00	163.0
105.90	412.0
115.90	351.0
117.00	583.0
118.00	236.0
118.90	365.0
128.00	393.0
128.90	231.0
130.00	413.0
141.00	844.0
142.90	1002.0
146.00	172.0
148.00	265.0
155.00	346.0
157.00	177.0
160.90	209.0
174.00	84912.0
175.00	6853.0
176.00	82592.0
176.90	5179.0
178.00	267.0

Scan 92 (2.236 min): B19488.D
BFB88

BFB

Data File: C:\MSDChem\1\DATA\B19488.D
Acq On : 11/25/08 15:36 Operator: SB
Sample : BFB88 Inst :B-5973
Misc : BFB88
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.00	654.0
37.10	3183.0
38.10	2883.0
39.00	994.0
40.00	2094.0
43.90	846.0
45.10	662.0
47.10	728.0
48.10	306.0
49.10	3365.0
50.00	15465.0
51.10	4320.0
52.00	221.0
56.00	1140.0
57.10	2191.0
60.00	727.0
61.00	3457.0
62.00	3287.0
63.10	2349.0
63.90	177.0
68.00	8201.0
69.00	7981.0
69.90	681.0
72.00	340.0
73.00	3209.0
74.00	12717.0
75.00	36600.0
76.00	3085.0
76.90	417.0
77.90	319.0
79.00	1608.0
80.00	733.0
80.90	2076.0
81.90	271.0
87.00	3540.0
88.00	3099.0
91.00	321.0
92.10	2224.0
93.00	3008.0
94.00	8042.0
95.00	75944.0
96.00	4688.0
97.10	172.0
104.00	300.0
105.90	351.0
115.90	351.0
116.90	455.0
117.90	250.0
119.10	322.0
127.90	243.0
129.00	154.0
130.00	302.0
140.90	667.0
143.00	759.0
145.80	184.0
148.10	193.0
154.90	262.0
157.00	175.0
160.90	207.0
171.80	172.0
174.00	81640.0
175.00	6835.0
176.00	76712.0
177.00	5404.0
178.00	221.0

Scan 84 (2.178 min): B19488.D
BFB88

m/z	Abundance
40.00	2273.0
44.10	754.0

BFB

Data File: C:\MSDChem\1\DATA\B19488.D
Acq On : 11/25/08 15:36 Operator: SB
Sample : BFB88 Inst :B-5973
Misc : BFB88
ALS Vial: 1 Sample Multiplier: 1

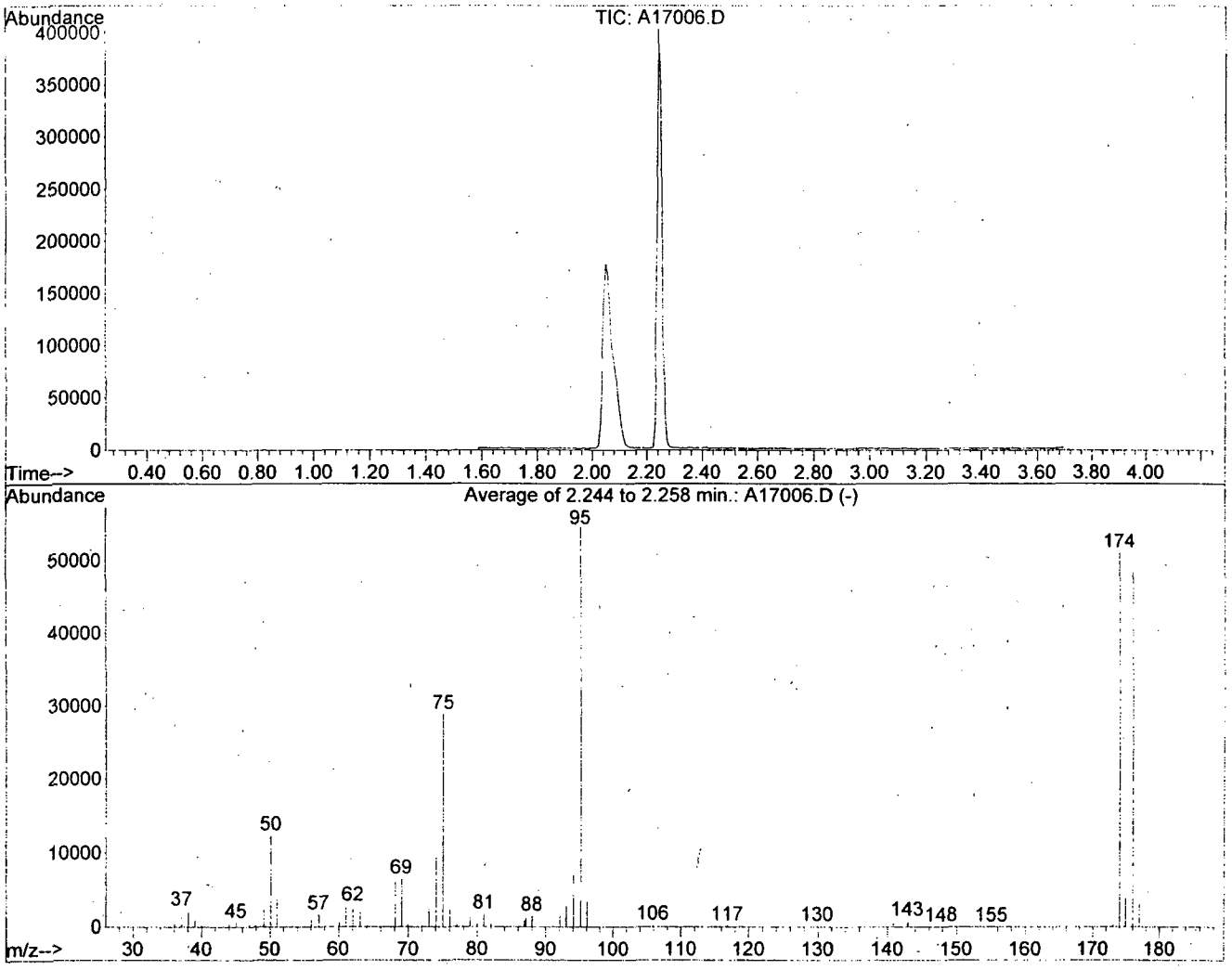
Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

Data Path : C:\MSDChem\1\DATA\
Data File : A17006.D
Acq On : 11/26/08 06:15 Operator: SB
Sample : BFB23 Inst : A-5973
Misc : BFB23
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.E

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Tue Nov 25 10:04:00 2008

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 Init/date: 11/26/08



AutoFind: Scans 93, 94, 95; Background Corrected with Scan 86

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.6	12368	PASS
75	95	30	80	52.9	28902	PASS
95	95	100	100	100.0	54632	PASS
96	95	5	9	6.4	3475	PASS
173	174	0.00	2	1.1	544	PASS
174	95	50	120	93.4	51048	PASS
175	174	5	9	7.7	3943	PASS
176	174	95	101	97.1	49544	PASS
177	176	5	9	6.6	3251	PASS

0673

Average of 2.244 to 2.258 min.: A17006.D
BFB23
Modified:subtracted

m/z	Abundance
36.05	523.0
37.10	2269.0
38.05	2097.0
39.00	1061.0
39.95	262.0
43.15	115.0
44.00	411.0
45.05	618.0
47.00	428.0
47.90	234.0
49.10	2559.0
50.10	12368.0
51.05	3769.0
52.00	103.0
52.20	80.0
55.05	148.0
56.05	984.0
57.10	1695.0
60.05	713.0
61.05	2575.0
62.05	2832.0
63.05	2206.0
64.10	237.0
64.90	94.0
65.20	88.0
67.00	133.0
67.20	77.0
68.10	6041.0
69.00	6484.0
69.95	360.0
72.00	283.0
72.30	82.0
73.00	2420.0
74.05	9368.0
75.05	28902.0
76.05	2380.0
77.05	322.0
77.90	85.0
78.95	1626.0
79.95	504.0
80.95	1732.0
82.00	484.0
86.90	872.0
87.10	1180.0
88.00	1499.0
91.05	245.0
92.05	1747.0
92.95	2799.0
94.05	6982.0
95.10	54632.0
96.05	3475.0
103.80	118.0
104.00	137.0
105.90	299.0
115.80	103.0
116.70	140.0
116.90	227.0
117.70	126.0
118.00	101.0
118.70	124.0
119.05	160.0
127.90	80.0
129.90	181.0
140.85	523.0
142.90	848.0
145.80	69.0
147.80	88.0
155.10	67.0
171.85	248.0
172.10	85.0
173.00	544.0
174.00	51048.0
174.90	3943.0
176.00	49544.0
177.00	3251.0
178.10	68.0

BFB

Data File: C:\MSDChem\1\DATA\A17006.D
Acq On :11/26/08 06 :15 Operator: SB.
Sample : BFB23 Inst :A - 5973
Misc : BFB23
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: LSCINT.E
Method : C\MSDCHEM\1\METHODS\CLPT16940 .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Tue Nov 25 10: 04 : 00 2008

Scan 93 (2.244 min): A17006.D
BFB23

m/z	Abundance
36.00	620.0
37.20	3618.0
38.00	3216.0
39.00	1540.0
40.00	1533.0
43.20	339.0
44.00	1100.0
45.10	891.0
47.10	552.0
47.90	426.0
49.10	4063.0
50.10	19800.0
51.10	6015.0
52.00	311.0
55.00	216.0
56.00	1480.0
57.10	2454.0
60.10	1115.0
61.00	3847.0
62.00	4049.0
63.00	3839.0
64.10	446.0
65.20	264.0
67.00	401.0
68.10	8863.0
69.00	10048.0
69.90	578.0
72.00	470.0
73.00	3301.0
74.10	14288.0
75.00	44680.0
76.10	3361.0
77.10	510.0
78.90	2252.0
80.00	749.0
80.90	2672.0
82.00	725.0
86.90	2616.0
88.00	2299.0
91.00	491.0
92.00	2643.0
93.00	3865.0
94.00	9988.0
95.10	80296.0
96.10	5362.0
103.80	356.0
105.90	468.0
115.80	311.0
116.70	422.0
117.70	379.0
118.70	374.0
119.10	228.0
127.90	240.0
129.90	281.0
140.90	759.0
142.90	940.0
155.10	201.0
171.80	364.0
173.00	586.0
174.00	64744.0
174.90	5018.0
176.00	61048.0
177.00	4222.0
178.10	206.0

BFB

Data File: C:\MSDChem\1\DATA\A17006.D
Acq On :11/26/08 06 :15 Operator: SB.
Sample : BFB23 Inst :A - 5973
Misc : BFB23
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: LSCINT.E
Method : C\MSDCHEM\1\METHODS\CLPT16940 .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Tue Nov 25 10: 04 : 00 2008

Scan 94 (2.251 min): A17006.D
BFB23

m/z	Abundance
36.10	689.0
37.00	2510.0
38.10	2174.0
39.00	1308.0
40.00	1496.0
43.10	348.0
44.10	911.0
45.00	620.0
46.90	530.0
47.90	277.0
49.10	2622.0
50.10	13220.0
51.00	3980.0
52.20	240.0
55.10	228.0
56.10	1134.0
57.10	2032.0
60.00	797.0
61.10	2827.0
62.10	3320.0
63.10	2151.0
64.10	265.0
64.90	282.0
67.20	232.0
68.10	7010.0
69.00	7060.0
70.00	504.0
72.00	379.0
73.00	2832.0
74.00	10517.0
75.10	32352.0
76.00	2738.0
77.00	457.0
77.90	256.0
79.00	1986.0
80.00	446.0
81.00	1888.0
82.00	495.0
87.10	2775.0
88.00	1552.0
91.10	244.0
92.10	1762.0
92.90	3575.0
94.10	7927.0
95.10	61784.0
96.00	3860.0
104.00	412.0
105.90	431.0
116.90	482.0
118.00	304.0
119.00	252.0
129.90	263.0
140.80	810.0
142.90	1024.0
145.80	207.0
147.80	266.0
171.90	380.0
173.00	651.0
174.00	64808.0
174.90	4576.0
176.00	60592.0
177.00	4071.0

BFB

Data File: C:\MSDChem\1\DATA\A17006.D
Acq On :11/26/08 06 :15 Operator: SB.
Sample : BFB23 Inst :A - 5973
Misc : BFB23
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: LSCINT.E
Method : C\MSDCHEM\1\METHODS\CLPT16940 .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Tue Nov 25 10: 04 : 00 2008

Scan 95 (2.258 min): A17006.D
BFB23

m/z	Abundance
36.00	261.0
37.00	679.0
38.00	903.0
39.00	336.0
40.00	1418.0
43.20	312.0
44.00	773.0
45.10	344.0
47.00	202.0
49.00	994.0
50.10	4085.0
51.00	1313.0
56.10	339.0
57.20	599.0
60.00	227.0
61.00	1051.0
62.10	1129.0
63.00	628.0
68.10	2250.0
69.10	2344.0
72.30	247.0
73.10	1127.0
74.10	3301.0
75.10	9674.0
76.00	1042.0
78.90	640.0
79.80	319.0
81.00	637.0
81.90	232.0
87.00	765.0
88.00	647.0
92.00	837.0
93.00	957.0
94.00	3032.0
95.00	21816.0
96.10	1205.0
116.90	200.0
142.90	582.0
172.10	256.0
173.00	397.0
174.00	23592.0
175.00	2235.0
176.00	26992.0
177.10	1461.0

BFB

Data File: C:\MSDChem\1\DATA\A17006.D
Acq On :11/26/08 06 :15 Operator: SB.
Sample : BFB23 Inst :A - 5973
Misc : BFB23
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: LSCINT.E
Method : C\MSDCHEM\1\METHODS\CLPT16940 .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Tue Nov 25 10: 04 : 00 2008

Scan 86 (2.194 min): A17006.D
BFB23

m/z	Abundance
39.90	1220.0
43.20	218.0
44.00	517.0

BFB

Data File: C:\MSDChem\1\DATA\A17006.D
Acq On :11/26/08 06 :15 Operator: SB.
Sample : BFB23 Inst :A - 5973
Misc : BFB23
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: LSCINT.E
Method : C\MSDCHEM\1\METHODS\CLPT16940 .M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Tue Nov 25 10: 04 : 00 2008

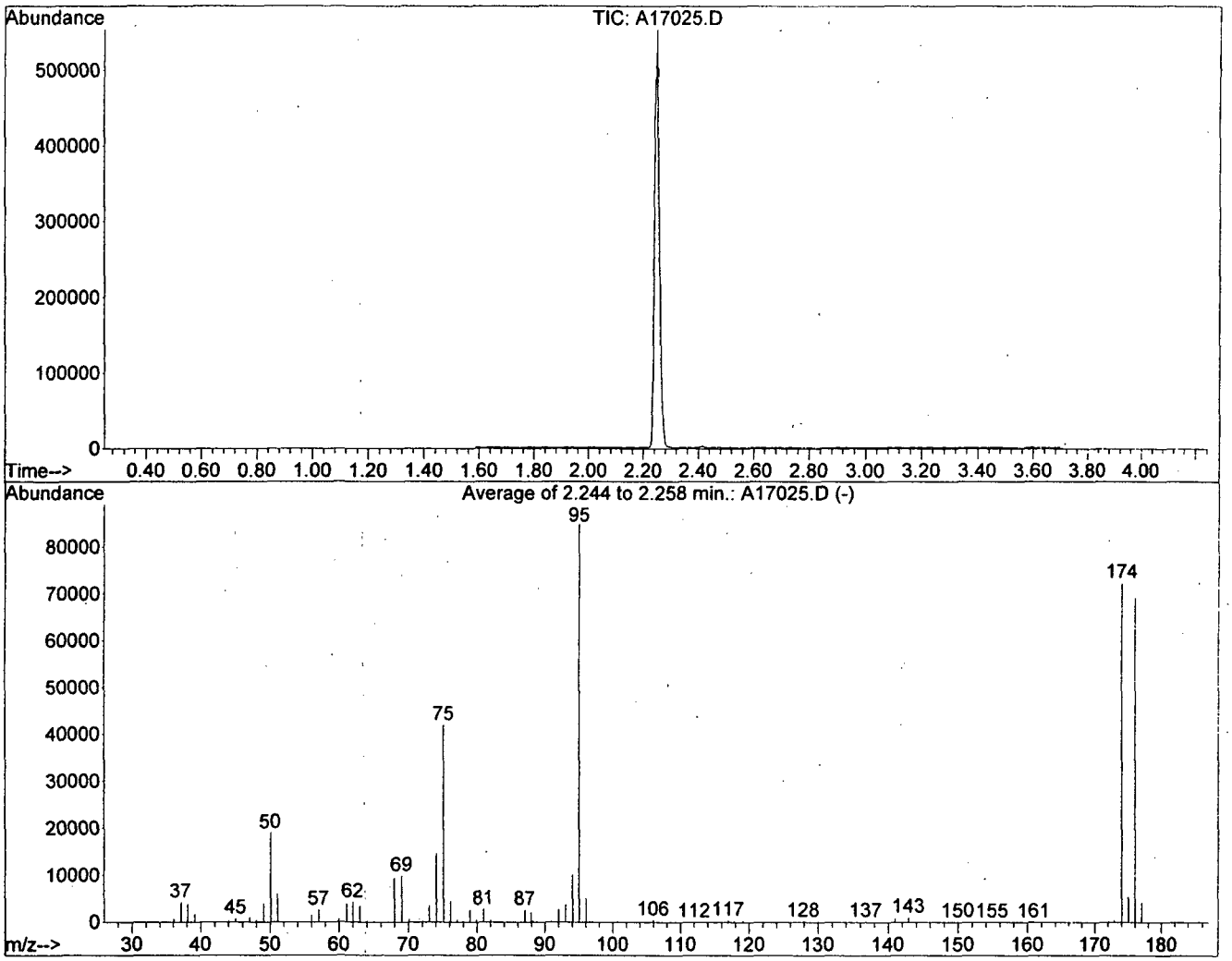
Data Path : C:\MSDCHEM\1\DATA\
Data File : A17025.D
Acq On : 11/26/08 17:17
Sample : BFB25
Misc : BFB25
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38065 SDG: G3FH6
Episode: 8-2029 Init/date: 12/28/08

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Thu Oct 11 18:57:01 2007



AutoFind: Scans 93, 94, 95; Background Corrected with Scan 88

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	18980	PASS
75	95	30	80	49.5	42021	PASS
95	95	100	100	100.0	84882	PASS
96	95	5	9	6.1	5213	PASS
173	174	0.00	2	0.7	516	PASS
174	95	50	120	85.4	72496	PASS
175	174	5	9	7.6	5503	PASS
176	174	95	101	95.8	69437	PASS
177	176	5	9	6.1	4229	PASS

0679

Average of 2.244 to 2.258 min.: A17025.D
BFB25
Modified:subtracted

BFB

m/z	Abundance
36.05	746.0
37.10	4294.0
38.10	3945.0
39.10	1763.0
44.00	410.0
45.00	858.0
47.00	1020.0
47.95	450.0
49.05	3946.0
50.10	18980.0
51.10	6020.0
52.00	237.0
55.00	87.0
56.00	1438.0
57.05	2674.0
59.95	663.0
61.10	3922.0
62.00	4311.0
63.00	3474.0
64.00	256.0
65.05	227.0
67.00	108.0
68.00	9464.0
69.05	9890.0
70.10	710.0
72.05	347.0
73.05	3498.0
74.05	14645.0
75.10	42021.0
76.10	4426.0
77.05	567.0
77.90	334.0
78.95	2664.0
79.90	593.0
80.95	2798.0
82.00	517.0
83.10	67.0
87.05	2686.0
87.95	2186.0
88.20	421.0
90.90	429.0
92.00	2777.0
93.00	3784.0
94.05	10078.0
95.05	84882.0
96.05	5213.0
97.00	110.0
104.00	274.0
104.20	103.0
105.95	525.0
112.00	70.0
115.85	277.0
116.70	91.0
116.95	458.0
117.85	345.0
118.80	130.0
119.10	419.0
127.90	303.0
128.80	70.0
129.70	109.0
129.95	286.0
130.80	71.0
134.80	68.0
136.80	215.0
140.95	818.0
142.90	1067.0
147.90	130.0
148.10	70.0
149.20	72.0
149.95	168.0
154.90	76.0
156.90	68.0
160.90	72.0
172.05	347.0
172.90	516.0
174.00	72496.0
175.00	5503.0
176.00	69437.0
177.00	4229.0

Data File: C:\MSDChem\1\DATA\A17025.D
Acq On :11/26/08 17 :17 Operator: SB.
Sample : BFB25 Inst :A - 5973
Misc : BFB25
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 94 (2.251 min): A17025.D
BFB25

BFB

Data File: C:\MSDChem\1\DATA\A17025.D
Acq On :11/26/08 17 :17 Operator: SB.
Sample : BFB25 Inst :A - 5973
Misc : BFB25
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

m/z	Abundance
36.10	913.0
37.10	4951.0
38.10	4720.0
39.10	2076.0
40.00	1717.0
44.00	1021.0
45.00	997.0
47.00	907.0
48.00	401.0
49.00	5139.0
50.10	22456.0
51.10	7337.0
52.00	231.0
56.00	2105.0
57.10	3320.0
60.00	913.0
61.10	4878.0
62.00	5715.0
63.00	4286.0
64.00	292.0
65.10	396.0
67.00	325.0
68.00	11759.0
69.00	13074.0
70.00	967.0
72.10	646.0
73.00	4407.0
74.00	16744.0
75.10	54176.0
76.10	5635.0
77.10	830.0
77.90	478.0
78.90	3337.0
79.90	593.0
80.90	3378.0
82.00	801.0
83.10	201.0
87.00	3618.0
88.00	3214.0
90.90	557.0
92.00	3262.0
93.00	5270.0
94.00	13236.0
95.10	110120.0
96.00	6856.0
97.00	330.0
104.00	439.0
105.90	732.0
112.00	210.0
115.90	349.0
116.90	916.0
117.90	432.0
119.10	603.0
127.90	398.0
128.80	210.0
130.00	556.0
136.80	296.0
141.00	792.0
142.90	1524.0
148.10	210.0
149.90	284.0
154.90	230.0
172.00	354.0
172.80	695.0
174.00	97896.0
175.00	7774.0
176.00	94856.0
177.00	5713.0

Scan 93 (2.244 min): A17025.D
BFB25

BFB

Data File: C:\MSDChem\1\DATA\A17025.D
Acq On :11/26/08 17 :17 Operator: SB.
Sample : BFB25 Inst :A - 5973
Misc : BFB25
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

m/z	Abundance
36.00	756.0
37.10	5233.0
38.10	4742.0
39.10	2292.0
40.00	1540.0
44.00	886.0
45.00	894.0
47.10	1620.0
47.90	730.0
49.10	4105.0
50.10	23832.0
51.10	7347.0
52.00	481.0
55.00	263.0
56.00	1500.0
57.00	3296.0
59.90	779.0
61.10	4580.0
62.00	4575.0
63.00	4023.0
64.00	476.0
65.00	287.0
68.00	11088.0
69.10	10773.0
70.10	591.0
72.00	396.0
73.10	3933.0
74.10	17216.0
75.10	45368.0
76.10	5108.0
77.10	500.0
78.10	238.0
79.00	2956.0
79.90	671.0
81.00	3069.0
82.00	489.0
87.10	2853.0
87.90	2201.0
90.90	495.0
92.00	3381.0
93.00	3706.0
94.10	10217.0
95.00	93720.0
96.10	5539.0
104.00	385.0
106.00	554.0
115.80	223.0
117.00	459.0
117.80	318.0
119.10	655.0
127.80	260.0
129.90	303.0
130.80	213.0
136.80	349.0
140.90	837.0
143.00	986.0
147.90	391.0
149.20	217.0
150.00	222.0
160.90	218.0
172.10	440.0
173.00	387.0
174.00	63400.0
175.00	4841.0
176.00	59792.0
177.00	3527.0

Scan 95 (2.258 min): A17025.D
BFB25

m/z	Abundance
36.00	571.0
37.00	2699.0
38.10	2373.0
39.10	923.0
40.00	1457.0
44.10	418.0
45.00	684.0
46.90	535.0
48.10	220.0
49.10	2595.0
50.10	10653.0
51.00	3376.0
55.90	709.0
57.00	1406.0
60.10	299.0
61.00	2310.0
62.10	2644.0
63.10	2115.0
68.10	5545.0
69.00	5824.0
70.20	574.0
73.00	2156.0
74.00	9977.0
75.10	26520.0
76.10	2536.0
76.90	371.0
77.80	288.0
79.00	1701.0
79.90	515.0
80.90	1947.0
82.10	263.0
87.00	1589.0
87.90	1145.0
88.20	1265.0
90.90	235.0
92.00	1690.0
93.10	2377.0
94.10	6782.0
95.00	50808.0
96.00	3246.0
104.20	310.0
105.90	289.0
115.80	260.0
116.70	274.0
117.90	285.0
118.80	391.0
128.00	251.0
129.70	329.0
134.80	206.0
140.90	827.0
142.80	691.0
156.90	205.0
172.00	248.0
173.00	468.0
174.00	56192.0
175.00	3896.0
176.00	53664.0
177.00	3448.0

BFB

Data File: C:\MSDChem\1\DATA\A17025.D
Acq On :11/26/08 17 :17 Operator: SB.
Sample : BFB25 Inst :A - 5973
Misc : BFB25
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 88 (2.208 min): A17025.D
BFB25

m/z	Abundance
40.00	1811.0
44.00	365.0

BFB

Data File: C:\MSDChem\1\DATA\A17025.D
Acq On :11/26/08 17 :17 Operator: SB.
Sample : BFB25 Inst :A - 5973
Misc : BFB25
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

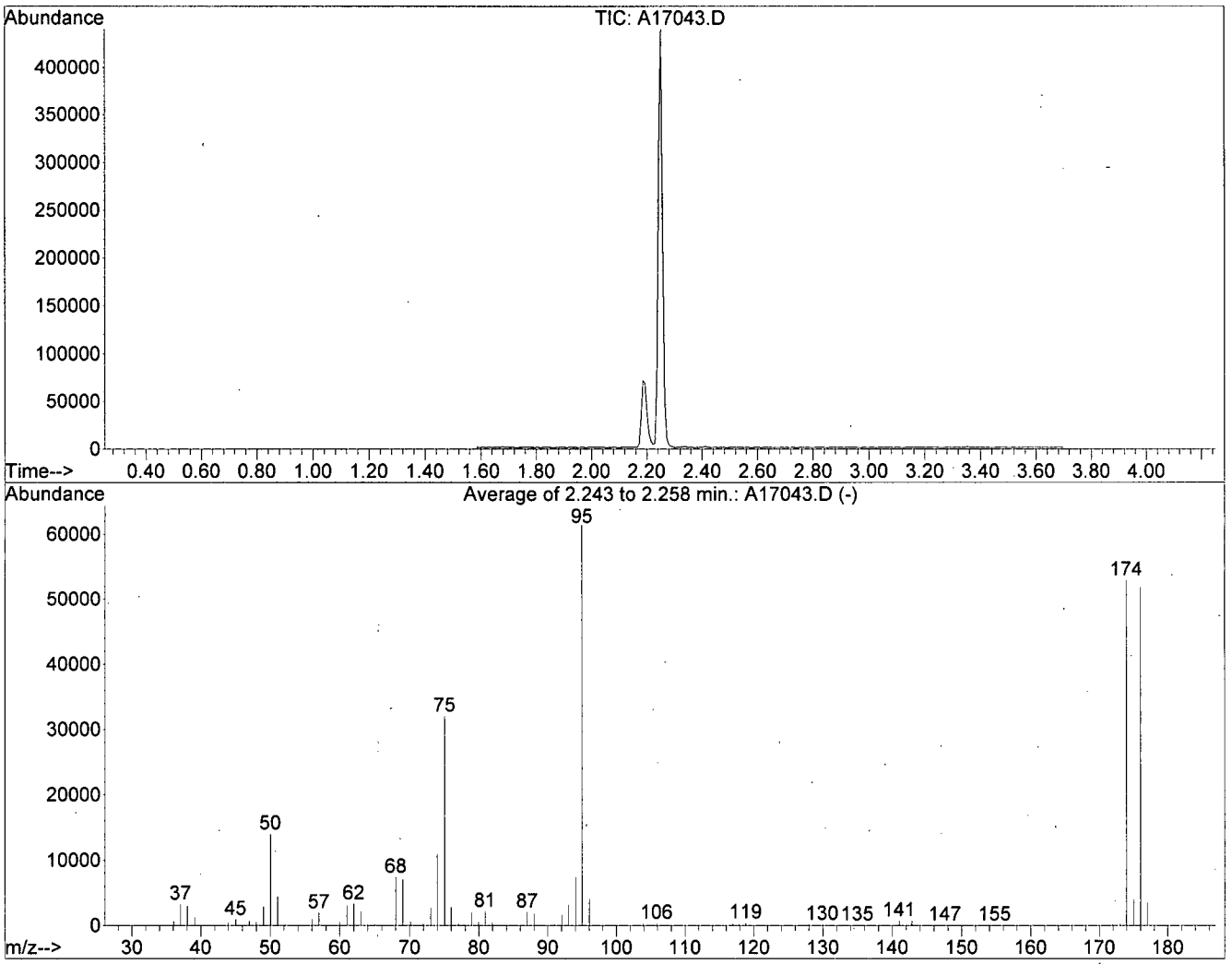
Data Path : C:\MSDCHEM\1\DATA\
Data File : A17043.D
Acq On : 11/27/08 07:00
Sample : BFB27
Misc : BFB27
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38051 SDG: F2XEA
Episode: S-2066 Init/date: 11/28/08

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01
Last Update : Thu Oct 11 18:57:01 2007



AutoFind: Scans 93, 94, 95; Background Corrected with Scan 89

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	14009	PASS
75	95	30	80	52.2	32058	PASS
95	95	100	100	100.0	61415	PASS
96	95	5	9	6.6	4069	PASS
173	174	0.00	2	0.5	258	PASS
174	95	50	120	86.3	52978	PASS
175	174	5	9	7.6	4006	PASS
176	174	95	101	97.9	51866	PASS
177	176	5	9	6.7	3470	PASS

0685

Average of 2.243 to 2.258 min.: A17043.D
BFB27
Modified:subtracted

m/z	Abundance
36.05	639.0
37.05	3239.0
38.05	2969.0
39.10	1293.0
40.00	94.0
44.00	477.0
45.05	938.0
47.00	694.0
48.00	493.0
49.05	2907.0
50.05	14009.0
51.10	4469.0
52.10	209.0
54.90	84.0
56.05	988.0
57.00	1943.0
60.05	581.0
61.00	3083.0
62.00	3287.0
63.05	2210.0
64.00	176.0
65.00	133.0
66.90	76.0
68.05	7389.0
69.00	7076.0
70.15	579.0
71.95	287.0
73.05	2717.0
74.00	10917.0
75.05	32058.0
76.00	2749.0
77.00	298.0
77.80	168.0
78.95	1973.0
79.95	554.0
80.90	2134.0
81.95	470.0
87.00	2071.0
88.00	1892.0
90.80	87.0
91.00	234.0
92.05	1668.0
93.00	3159.0
94.10	7371.0
95.00	61415.0
96.05	4069.0
97.10	76.0
103.95	267.0
104.90	70.0
105.90	344.0
106.80	87.0
115.00	96.0
115.90	177.0
116.95	243.0
117.85	186.0
118.85	381.0
127.80	123.0
128.05	164.0
129.95	174.0
135.00	67.0
136.80	85.0
141.00	725.0
142.70	258.0
142.85	702.0
147.60	88.0
154.80	76.0
155.10	74.0
171.90	185.0
172.10	87.0
172.60	101.0
173.00	258.0
173.95	52978.0
175.00	4006.0
176.00	51866.0
177.00	3470.0

BFB

Data File: C:\MSDChem\1\DATA\A17043.D
Acq On :11/27/08 07 :00 Operator: SB.
Sample : BFB27 Inst :A - 5973
Misc : BFB27
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 94 (2.251 min): A17043.D
BFB27

m/z	Abundance
36.10	879.0
37.10	3872.0
38.00	3831.0
39.10	1299.0
40.00	1283.0
44.10	941.0
45.10	985.0
47.00	735.0
48.00	530.0
49.10	3637.0
50.10	19000.0
51.10	6053.0
52.00	266.0
54.90	253.0
56.10	1435.0
57.00	2598.0
60.00	706.0
61.00	4033.0
62.00	4295.0
63.00	3113.0
64.00	239.0
66.90	228.0
68.10	9743.0
69.00	10601.0
70.10	574.0
72.00	340.0
73.10	3716.0
74.00	14414.0
75.10	46464.0
76.00	3378.0
77.00	348.0
77.80	255.0
78.90	2545.0
79.90	799.0
80.90	2909.0
82.00	732.0
87.00	2565.0
88.00	2867.0
91.00	366.0
92.00	2199.0
93.00	3863.0
94.10	10224.0
95.00	86704.0
96.10	4749.0
97.10	229.0
103.90	414.0
104.90	210.0
105.90	658.0
106.80	263.0
115.00	289.0
115.90	242.0
117.00	398.0
117.80	342.0
118.80	521.0
127.80	369.0
129.90	257.0
136.80	256.0
141.10	939.0
142.90	1419.0
155.10	224.0
171.90	557.0
173.00	421.0
174.00	76440.0
175.00	5147.0
176.00	75904.0
177.00	4677.0

BFB

Data File: C:\MSDChem\1\DATA\A17043.D
Acq On :11/27/08 07 :00 Operator: SB.
Sample : BFB27 Inst :A - 5973
Misc : BFB27
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 93 (2.243 min): A17043.D
BFB27

m/z	Abundance
36.00	734.0
37.00	4125.0
38.10	3379.0
39.10	1729.0
40.00	1334.0
44.00	914.0
45.00	1045.0
47.00	921.0
48.00	722.0
49.00	3600.0
50.10	16416.0
51.10	4837.0
52.20	361.0
56.00	876.0
57.00	2356.0
60.10	670.0
61.00	3265.0
62.00	3760.0
63.10	2460.0
64.00	291.0
65.00	400.0
68.00	8169.0
69.10	7188.0
70.20	713.0
71.90	305.0
73.00	3242.0
74.00	12687.0
75.10	34776.0
76.00	3044.0
77.10	335.0
77.80	250.0
79.00	2019.0
80.00	582.0
80.90	2059.0
81.90	328.0
87.00	2175.0
88.00	1744.0
90.80	261.0
92.10	1765.0
93.00	3593.0
94.10	8143.0
95.00	64032.0
96.00	4789.0
104.00	389.0
105.90	374.0
116.90	331.0
117.90	217.0
118.90	383.0
128.10	222.0
130.00	267.0
141.00	831.0
142.70	774.0
147.60	266.0
173.00	354.0
174.00	43384.0
175.00	3731.0
176.00	41648.0
177.00	3000.0

BFB

Data File: C:\MSDChem\1\DATA\A17043.D
Acq On :11/27/08 07 :00 Operator: SB.
Sample : BFB27 Inst :A - 5973
Misc : BFB27
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 95 (2.258 min): A17043.D
BFB27

m/z	Abundance
35.90	304.0
37.10	1721.0
38.10	1699.0
39.10	852.0
40.00	1497.0
44.10	568.0
44.90	401.0
45.20	385.0
47.10	427.0
48.10	227.0
49.00	1486.0
50.10	7708.0
51.10	2517.0
56.10	655.0
57.00	876.0
60.00	369.0
61.00	1952.0
62.10	1808.0
63.00	1059.0
68.00	4255.0
69.10	4129.0
70.10	450.0
71.90	217.0
73.00	1799.0
74.10	6321.0
75.00	17480.0
76.00	1826.0
76.90	212.0
78.90	1355.0
79.90	282.0
80.90	1436.0
81.90	352.0
87.00	1475.0
88.00	1067.0
91.00	336.0
92.00	1041.0
93.00	2022.0
94.10	4379.0
95.10	38136.0
96.10	2669.0
115.90	290.0
118.90	240.0
128.00	272.0
135.00	202.0
140.90	405.0
142.80	687.0
154.80	230.0
172.10	263.0
172.60	303.0
174.00	43320.0
175.00	3140.0
176.00	42824.0
177.00	2735.0

BFB

Data File: C:\MSDChem\1\DATA\A17043.D
Acq On :11/27/08 07 :00 Operator: SB.
Sample : BFB27 Inst :A - 5973
Misc : BFB27
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 89 (2.215 min): A17043.D
BFB27

m/z	Abundance
40.00	1277.0
44.00	330.0
50.00	365.0
69.00	230.0
73.20	202.0
74.10	223.0
74.90	848.0
94.10	211.0
95.00	1542.0
173.90	1403.0
176.00	1592.0

BFB

Data File: C:\MSDChem\1\DATA\A17043.D
Acq On :11/27/08 07 :00 Operator: SB.
Sample : BFB27 Inst :A - 5973
Misc : BFB27
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

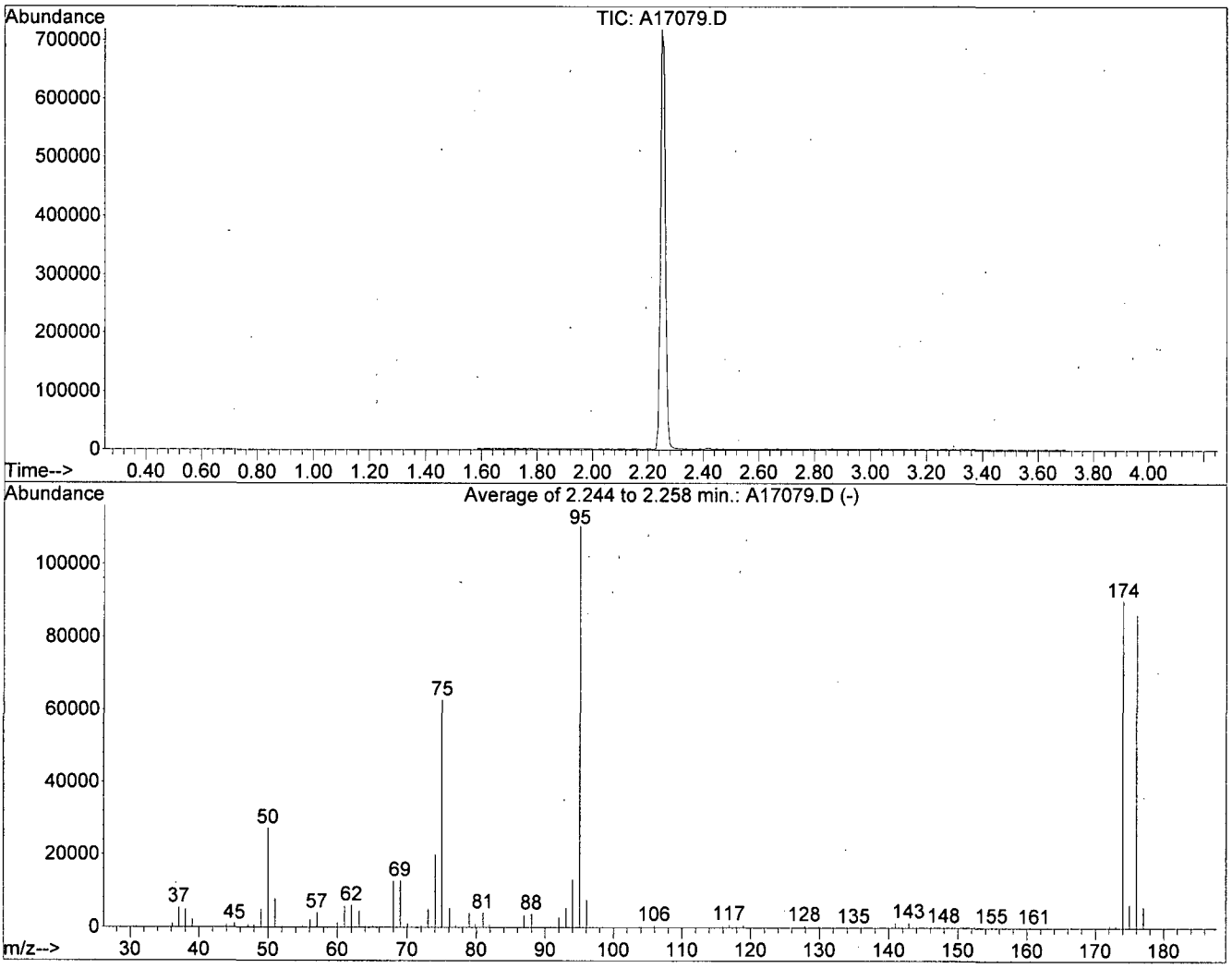
Data Path : C:\MSDCHEM\1\DATA\
Data File : A17079.D
Acq On : 11/28/08 08:01
Sample : BFB31
Misc : BFB31
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Thu Oct 11 18:57:01 2007

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: SH 11/28/08



AutoFind: Scans 93, 94, 95; Background Corrected with Scan 88

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	27329	PASS
75	95	30	80	56.8	62672	PASS
95	95	100	100	100.0	110421	PASS
96	95	5	9	6.8	7481	PASS
173	174	0.00	2	0.6	509	PASS
174	95	50	120	81.5	89949	PASS
175	174	5	9	7.1	6351	PASS
176	174	95	101	96.0	86314	PASS
177	176	5	9	6.7	5757	PASS

0691

Average of 2.244 to 2.258 min.: A17079.D
BFB31
Modified:subtracted

m/z	Abundance
36.10	1052.0
37.10	5405.0
38.05	4868.0
39.05	2168.0
44.00	791.0
45.15	1058.0
47.00	307.0
47.15	867.0
47.95	766.0
49.00	4949.0
50.00	27329.0
51.00	7733.0
52.00	408.0
55.00	480.0
56.05	2159.0
57.05	4071.0
57.90	92.0
58.10	99.0
60.00	1287.0
61.00	5688.0
62.00	6017.0
63.10	4570.0
64.00	483.0
65.05	410.0
66.90	153.0
67.10	130.0
68.00	12644.0
69.00	12742.0
70.05	1113.0
72.00	620.0
73.00	5052.0
74.05	19991.0
75.00	62672.0
76.10	5224.0
77.00	603.0
77.80	73.0
78.05	241.0
79.00	3840.0
79.85	1009.0
80.95	3974.0
81.90	843.0
86.95	3284.0
88.00	3741.0
90.85	342.0
92.00	2785.0
93.05	5282.0
94.00	13047.0
95.05	110421.0
96.05	7481.0
96.95	287.0
103.80	239.0
104.05	334.0
105.00	105.0
105.95	581.0
114.90	74.0
115.95	487.0
116.90	856.0
117.90	411.0
118.95	656.0
127.85	619.0
128.95	166.0
129.70	127.0
129.95	355.0
130.80	88.0
134.80	72.0
135.00	137.0
136.60	79.0
139.90	72.0
141.00	1333.0
141.90	82.0
142.90	1447.0
145.00	124.0
146.10	100.0
147.95	273.0
154.90	264.0
156.90	182.0
158.10	74.0
158.95	190.0
161.10	91.0
172.05	695.0
172.80	110.0
172.95	509.0
174.00	89949.0
175.00	6351.0
176.00	86314.0
177.00	5757.0
177.80	83.0

BFB

Data File: C:\MSDChem\1\DATA\A17079.D
Acq On :11/28/08 08 :01 Operator: SB.
Sample : BFB31 Inst :A - 5973
Misc : BFB31
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 94 (2.251 min): A17079.D
BFB31

BFB

Data File: C:\MSDChem\1\DATA\A17079.D
Acq On :11/28/08 08 :01 Operator: SB.
Sample : BFB31 Inst :A - 5973
Misc : BFB31
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

m/z	Abundance
36.10	1347.0
37.10	7019.0
38.10	6093.0
39.10	2787.0
40.00	1336.0
44.10	1612.0
45.10	1428.0
47.20	1371.0
48.00	1134.0
49.00	7035.0
50.00	37592.0
51.00	10104.0
52.00	613.0
55.00	543.0
56.00	3225.0
57.00	5559.0
57.90	278.0
60.00	1763.0
61.00	7950.0
62.00	7726.0
63.10	5962.0
64.00	526.0
65.10	561.0
66.90	460.0
68.00	15978.0
69.00	16317.0
70.00	1524.0
72.00	658.0
73.00	6751.0
74.00	27072.0
75.00	82592.0
76.10	7108.0
77.00	719.0
78.00	492.0
79.00	4875.0
79.90	1428.0
81.00	5124.0
81.90	1266.0
87.00	4327.0
88.00	5094.0
90.80	540.0
92.00	3904.0
93.10	6422.0
94.00	16664.0
95.00	141952.0
96.10	9624.0
97.00	434.0
104.10	601.0
105.90	853.0
114.90	222.0
115.90	816.0
116.90	1214.0
118.00	494.0
118.90	741.0
127.80	757.0
128.90	250.0
129.70	381.0
130.00	360.0
134.80	217.0
139.90	216.0
141.00	1806.0
141.90	248.0
142.90	1910.0
145.00	373.0
146.10	301.0
147.90	457.0
154.90	355.0
156.90	221.0
158.10	224.0
159.00	227.0
172.00	942.0
173.00	714.0
174.00	106408.0
175.00	7781.0
176.00	107136.0
177.00	7122.0
177.80	249.0

Scan 93 (2.244 min): A17079.D
BFB31

m/z	Abundance
36.10	435.0
37.10	4164.0
38.10	3340.0
39.10	1474.0
40.00	1480.0
44.00	935.0
45.20	700.0
47.00	922.0
48.00	426.0
49.00	2707.0
50.00	15739.0
51.00	4864.0
52.10	386.0
55.00	289.0
56.10	1206.0
57.00	2508.0
60.00	665.0
61.00	2751.0
62.00	3835.0
63.10	2715.0
64.00	313.0
65.00	204.0
68.00	7831.0
69.00	7364.0
70.10	693.0
71.90	430.0
73.00	2895.0
74.00	10887.0
75.00	35408.0
76.10	3208.0
76.90	438.0
78.10	232.0
79.00	2164.0
79.80	545.0
80.90	2534.0
81.90	427.0
87.00	1760.0
88.00	2127.0
92.00	1484.0
93.00	3186.0
94.00	8352.0
95.00	58816.0
96.00	4106.0
104.00	401.0
106.00	296.0
116.80	458.0
117.90	285.0
119.00	379.0
127.90	279.0
140.90	536.0
143.00	575.0
172.10	466.0
172.80	332.0
174.00	35584.0
175.00	2372.0
176.00	32512.0
177.00	2027.0

BFB

Data File: C:\MSDChem\1\DATA\A17079.D
Acq On :11/28/08 08 :01 Operator: SB.
Sample : BFB31 Inst :A - 5973
Misc : BFB31
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 95 (2.258 min): A17079.D
BFB31

m/z	Abundance
36.10	1375.0
37.10	5034.0
38.00	5172.0
39.00	2245.0
40.00	1473.0
44.00	1118.0
45.10	1048.0
47.10	1232.0
47.90	739.0
49.00	5107.0
50.00	28656.0
51.00	8233.0
51.90	226.0
55.00	608.0
56.10	2047.0
57.10	4147.0
58.10	299.0
60.00	1433.0
61.00	6364.0
62.00	6490.0
63.10	5035.0
64.00	610.0
65.10	467.0
67.10	390.0
68.00	14123.0
69.00	14546.0
70.00	1122.0
72.10	773.0
73.00	5512.0
74.10	22016.0
75.00	70016.0
76.10	5358.0
77.10	653.0
77.80	220.0
79.00	4481.0
79.90	1056.0
81.00	4265.0
81.90	836.0
86.90	3767.0
88.00	4002.0
90.90	487.0
92.00	2967.0
93.00	6238.0
94.00	14127.0
95.10	130496.0
96.00	8713.0
96.90	427.0
103.80	717.0
105.00	316.0
105.90	596.0
116.00	646.0
117.00	896.0
117.80	454.0
118.90	849.0
127.90	821.0
129.00	248.0
129.90	706.0
130.80	266.0
135.00	413.0
136.60	239.0
141.00	1658.0
142.90	1856.0
148.00	362.0
154.90	439.0
156.90	326.0
158.90	343.0
161.10	275.0
172.00	678.0
172.90	814.0
174.00	127856.0
175.00	8901.0
176.00	119296.0
177.00	8124.0

BFB

Data File: C:\MSDChem\1\DATA\A17079.D
Acq On :11/28/08 08 :01 Operator: SB.
Sample : BFB31 Inst :A - 5973
Misc : BFB31
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

Scan 88 (2.208 min): A17079.D
BFB31

m/z	Abundance
40.00	1464.0
43.90	430.0

BFB

Data File: C:\MSDChem\1\DATA\A17079.D
Acq On :11/28/08 08 :01 Operator: SB.
Sample : BFB31 Inst :A - 5973
Misc : BFB31
ALS Vial: 1 Sample Multiplier: 1

Itnegration File: rteint.P
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL - VOLATILES ANALYSIS BY SOM 1.2
Last Update: Thu Oct 11 18: 57 : 01 2007

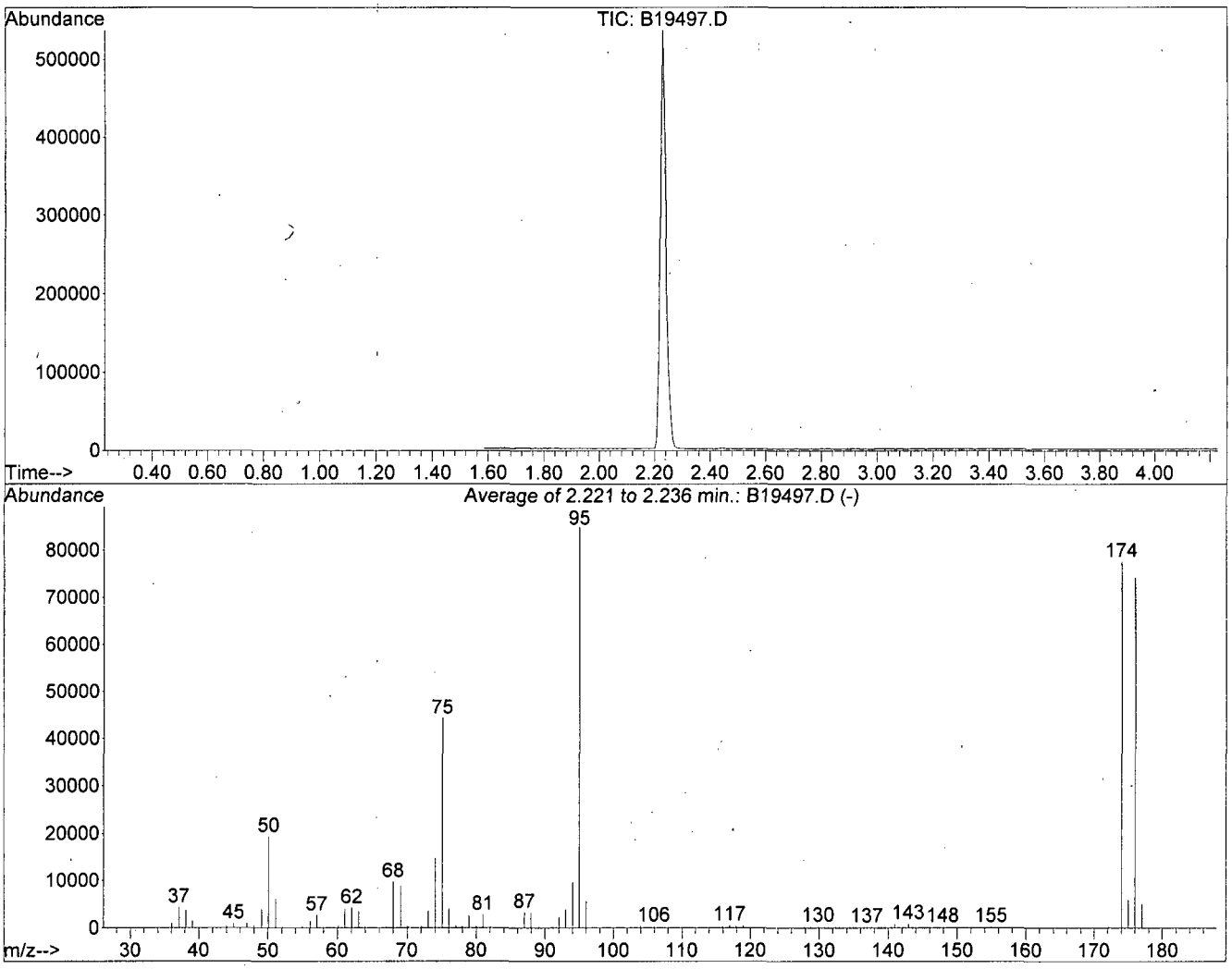
Data Path : C:\MSDChem\1\DATA\
Data File : B19497.D
Acq On : 11/25/08 21:21
Sample : BFB89
Misc : BFB89
ALS Vial : 1 Sample Multiplier: 1

Operator: SB
Inst : B-5973

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Sat Aug 25 19:31:42 2007

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 11/28/08



AutoFind: Scans 90, 91, 92; Background Corrected with Scan 85

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.7	19322	PASS
75	95	30	80	52.1	44250	PASS
95	95	100	100	100.0	84986	PASS
96	95	5	9	6.7	5657	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.5	77720	PASS
175	174	5	9	7.5	5851	PASS
176	174	95	101	95.7	74362	PASS
177	176	5	9	6.7	4982	PASS

0697

Average of 2.221 to 2.236 min.: B19497.D
BFB89
Modified:subtracted

BFB

Data File: C:\MSDChem\1\DATA\B19497.D
Acq On : 11/25/08 21:21 Operator: SB
Sample : BFB89 Inst :B-5973
Misc : BFB89
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.05	948.0
37.10	4298.0
38.10	3624.0
39.05	1541.0
44.00	513.0
45.05	889.0
45.90	51.0
47.00	921.0
47.95	571.0
49.10	3838.0
50.10	19322.0
51.10	6131.0
51.90	67.0
52.10	229.0
54.95	258.0
56.10	1442.0
57.05	2694.0
58.00	50.0
60.00	210.0
60.15	572.0
61.05	3931.0
62.05	4187.0
63.05	3440.0
63.95	277.0
65.40	51.0
67.00	187.0
68.00	9712.0
69.05	8881.0
70.00	379.0
70.20	334.0
72.05	456.0
73.05	3474.0
74.00	14732.0
75.05	44250.0
76.05	4019.0
77.05	463.0
77.95	384.0
78.95	2515.0
79.90	423.0
80.10	225.0
80.95	2749.0
81.90	104.0
82.05	375.0
87.00	3241.0
87.95	3141.0
90.95	165.0
91.20	112.0
92.05	2231.0
93.00	3839.0
94.05	9584.0
95.00	84986.0
96.00	5657.0
97.00	55.0
103.95	362.0
104.80	81.0
105.95	371.0
107.10	59.0
115.90	369.0
117.00	542.0
117.90	358.0
118.95	460.0
127.85	211.0
128.10	129.0
128.85	131.0
129.10	79.0
129.90	327.0
130.80	74.0
135.00	83.0
136.95	173.0
140.95	755.0
142.20	65.0
142.95	837.0
146.10	51.0
147.95	217.0
154.95	212.0
156.95	140.0
158.90	71.0
171.80	92.0
172.15	249.0
174.00	77720.0
175.00	5851.0
176.00	74362.0
177.00	4982.0
178.00	92.0

Scan 90 (2.221 min): B19497.D
BFB89

BFB

Data File: C:\MSDChem\1\DATA\B19497.D
Acq On : 11/25/08 21:21 Operator: SB
Sample : BFB89 Inst :B-5973
Misc : BFB89
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.10	929.0
37.10	4266.0
38.10	3839.0
39.10	1639.0
40.00	1909.0
44.00	1271.0
45.10	873.0
47.00	777.0
47.90	629.0
49.10	3410.0
50.10	19664.0
51.10	6031.0
51.90	202.0
52.10	187.0
54.90	229.0
56.10	1529.0
57.00	2341.0
58.00	151.0
60.00	630.0
61.00	4016.0
62.00	3849.0
63.00	3385.0
64.00	353.0
68.00	9399.0
69.00	9028.0
70.00	667.0
72.00	367.0
73.10	3723.0
74.00	14389.0
75.10	41232.0
76.00	3745.0
77.10	503.0
78.10	309.0
78.90	2265.0
79.90	706.0
81.00	2760.0
81.90	313.0
87.00	3342.0
88.00	3162.0
90.90	204.0
92.00	2077.0
93.00	3727.0
94.00	8784.0
95.00	77664.0
96.00	5406.0
104.00	395.0
106.00	361.0
115.90	368.0
117.00	590.0
117.90	363.0
118.90	341.0
127.90	293.0
128.90	170.0
129.90	249.0
136.90	165.0
140.90	571.0
143.00	610.0
146.10	154.0
147.90	150.0
156.90	200.0
171.80	276.0
172.20	177.0
174.00	60000.0
175.00	4630.0
176.00	57168.0
177.00	3724.0

Scan 91 (2.229 min): B19497.D
BFB89

BFB

Data File: C:\MSDChem\1\DATA\B19497.D
Acq On : 11/25/08 21:21 Operator: SB
Sample : BFB89 Inst :B-5973
Misc : BFB89
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.00	1199.0
37.10	5246.0
38.10	4041.0
39.00	1595.0
40.00	1968.0
44.00	1429.0
45.00	1185.0
45.90	155.0
47.00	1147.0
48.00	705.0
49.10	5037.0
50.10	23008.0
51.10	7885.0
52.10	328.0
54.90	263.0
56.10	1592.0
57.10	3755.0
60.20	1003.0
61.10	4676.0
62.10	5023.0
63.10	4267.0
63.90	291.0
65.40	155.0
67.00	302.0
68.00	11343.0
69.10	10943.0
70.20	1002.0
72.10	515.0
73.00	3987.0
74.00	17208.0
75.00	53712.0
76.10	4954.0
76.90	538.0
77.90	417.0
79.00	3138.0
80.10	677.0
80.90	3383.0
82.10	677.0
87.00	3954.0
87.90	3591.0
91.20	337.0
92.10	2849.0
93.00	4463.0
94.10	11689.0
95.00	104576.0
96.00	6636.0
97.00	165.0
103.90	396.0
104.80	243.0
105.90	420.0
107.10	177.0
115.90	348.0
117.00	635.0
117.90	448.0
119.00	596.0
128.10	388.0
129.10	238.0
129.90	385.0
130.80	223.0
135.00	250.0
137.00	163.0
140.90	853.0
142.20	195.0
142.90	940.0
147.90	299.0
154.90	328.0
158.90	213.0
172.10	274.0
174.00	96248.0
175.00	6731.0
176.00	93120.0
177.00	6284.0
178.00	276.0

Scan 92 (2.236 min): B19497.D
BFB89

m/z	Abundance
36.10	716.0
37.10	3383.0
38.10	2994.0
39.10	1391.0
40.00	1809.0
44.00	1067.0
45.10	609.0
47.00	841.0
48.00	380.0
49.10	3069.0
50.10	15295.0
51.10	4478.0
52.10	172.0
55.00	283.0
56.10	1207.0
57.00	1986.0
60.10	714.0
61.00	3102.0
62.00	3691.0
63.00	2669.0
64.00	187.0
67.00	260.0
68.00	8396.0
69.00	6674.0
70.00	471.0
72.00	487.0
73.10	2714.0
74.00	12601.0
75.00	37808.0
76.00	3358.0
77.10	348.0
77.90	427.0
78.90	2142.0
79.90	565.0
80.90	2105.0
82.00	449.0
87.00	2428.0
88.00	2672.0
91.00	291.0
92.00	1767.0
93.00	3329.0
94.10	8279.0
95.00	72720.0
96.00	4929.0
103.90	296.0
106.00	332.0
115.90	392.0
117.00	401.0
117.80	265.0
119.00	444.0
127.80	341.0
128.80	223.0
129.90	348.0
136.90	192.0
141.00	843.0
142.90	963.0
148.00	203.0
155.00	310.0
157.00	222.0
172.10	296.0
174.00	76912.0
175.00	6192.0
176.00	72800.0
177.00	4940.0

BFB

Data File: C:\MSDChem\1\DATA\B19497.D
Acq On : 11/25/08 21:21 Operator: SB
Sample : BFB89 Inst :B-5973
Misc : BFB89
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

Scan 85 (2.186 min): B19497.D
BFB89

m/z	Abundance
40.00	2168.0
44.00	742.0

BFB

Data File: C:\MSDChem\1\DATA\B19497.D
Acq On : 11/25/08 21:21 Operator: SB
Sample : BFB89 Inst :B-5973
Misc : BFB89
ALS Vial: 1 Sample Multiplier: 1

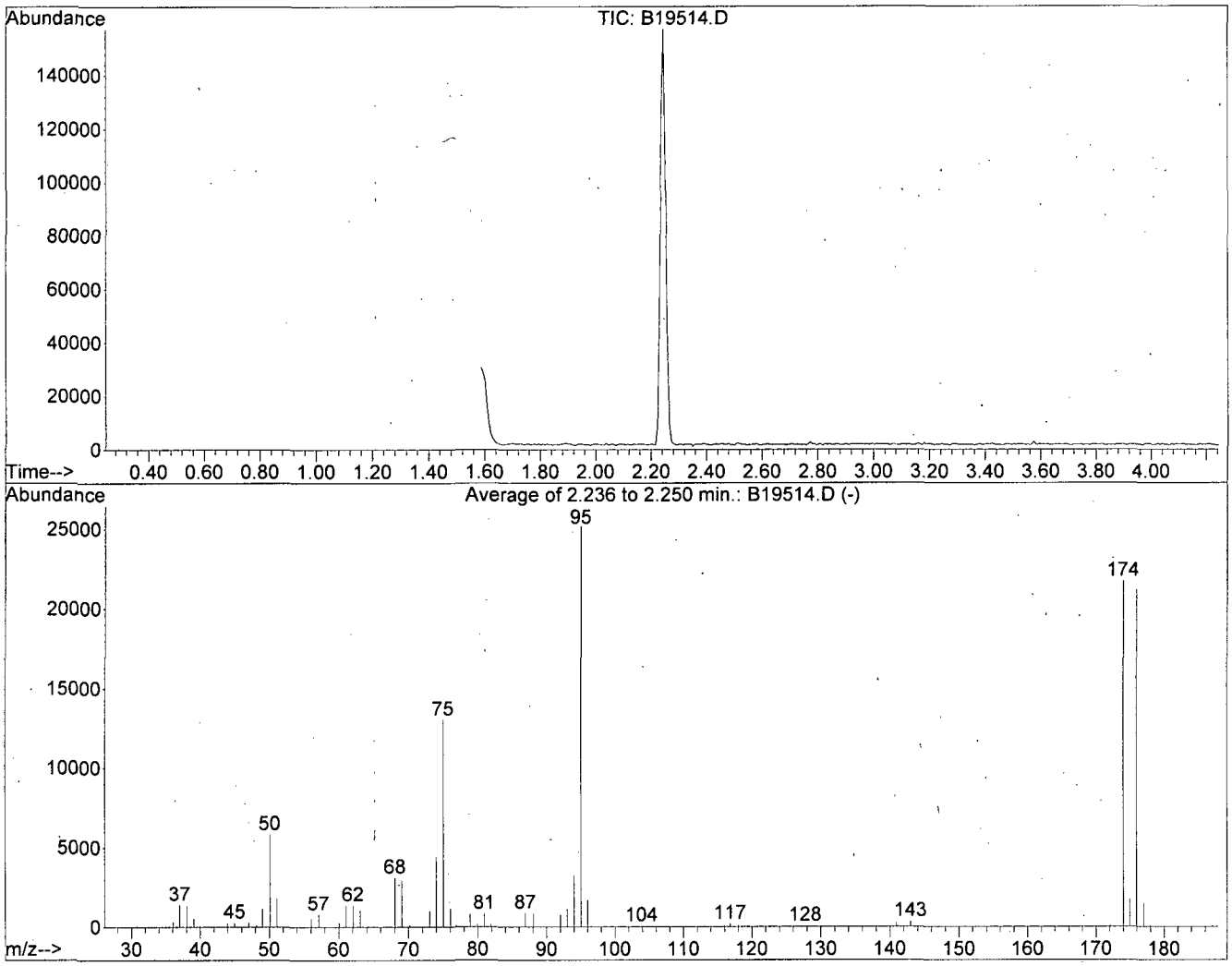
Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

Data Path : C:\MSDChem\1\DATA\
Data File : B19514.D
Acq On : 11/26/08 07:40 Operator: SB
Sample : BFB91 Inst : B-5973
Misc : BFB91
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\BFB-TUNE.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
Last Update : Sat Aug 25 19:31:42 2007

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 12/1/28/08



AutoFind: Scans 92, 93, 94; Background Corrected with Scan 87

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.1	5823	PASS
75	95	30	80	51.8	13047	PASS
95	95	100	100	100.0	25189	PASS
96	95	5	9	6.8	1708	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.2	21709	PASS
175	174	5	9	8.1	1755	PASS
176	174	95	101	97.6	21186	PASS
177	176	5	9	7.0	1479	PASS

0703

Average of 2.236 to 2.250 min.: B19514.D
BFB91
Modified:subtracted

m/z	Abundance
36.10	297.0
37.05	1400.0
38.10	1330.0
39.10	535.0
40.00	94.0
43.95	220.0
45.00	261.0
47.05	274.0
48.15	135.0
49.05	1185.0
50.10	5823.0
51.10	1844.0
56.05	538.0
57.10	802.0
60.05	270.0
61.05	1353.0
62.05	1389.0
63.05	1056.0
64.20	60.0
68.05	3130.0
69.05	2988.0
70.15	154.0
73.05	1004.0
74.00	4443.0
75.00	13047.0
76.05	1152.0
76.85	142.0
78.90	829.0
79.90	197.0
80.95	838.0
81.90	178.0
86.90	881.0
88.10	841.0
92.00	782.0
93.00	1131.0
94.00	3268.0
95.00	25189.0
96.00	1708.0
103.90	62.0
115.90	50.0
116.85	191.0
118.00	133.0
118.90	69.0
127.80	57.0
140.90	245.0
141.10	80.0
143.00	340.0
172.05	128.0
174.00	21709.0
174.95	1755.0
175.95	21186.0
177.00	1479.0
177.90	56.0

BFB

Data File: C:\MSDChem\1\DATA\B19514.D
Acq On : 11/26/08 07:40 Operator: SB
Sample : BFB91 Inst :B-5973
Misc : BFB91
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

Scan 92 (2.236 min): B19514.D
BFB91

BFB

Data File: C:\MSDChem\1\DATA\B19514.D
Acq On : 11/26/08 07:40 Operator: SB
Sample : BFB91 Inst :B-5973
Misc : BFB91
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.10	365.0
37.00	1517.0
38.10	1516.0
39.10	571.0
40.00	1635.0
44.10	682.0
45.10	288.0
47.20	332.0
48.10	220.0
49.00	1344.0
50.10	5945.0
51.10	2053.0
56.00	558.0
57.10	848.0
60.00	291.0
61.00	1349.0
62.00	1384.0
63.10	1422.0
64.20	181.0
68.00	3374.0
69.00	2943.0
70.10	208.0
73.10	1110.0
74.00	5205.0
75.00	13451.0
76.10	1195.0
76.80	160.0
78.90	860.0
79.90	252.0
81.00	920.0
81.90	256.0
86.90	887.0
88.10	968.0
92.00	745.0
93.00	1275.0
94.00	3218.0
95.00	25616.0
96.00	1676.0
116.90	335.0
118.10	172.0
140.90	303.0
142.90	222.0
174.00	18440.0
174.90	1580.0
175.90	17448.0
177.00	1347.0
177.90	170.0

Scan 93 (2.243 min): B19514.D
BFB91

BFB

Data File: C:\MSDChem\1\DATA\B19514.D
Acq On : 11/26/08 07:40 Operator: SB
Sample : BFB91 Inst :B-5973
Misc : BFB91
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

m/z	Abundance
36.10	308.0
37.10	1708.0
38.10	1496.0
39.10	747.0
40.10	1572.0
44.00	530.0
44.90	287.0
47.00	262.0
48.20	186.0
49.10	1310.0
50.10	7464.0
51.10	1988.0
56.10	599.0
57.10	996.0
60.10	314.0
61.10	1822.0
62.10	1511.0
63.00	1193.0
68.00	3646.0
69.10	3586.0
70.20	255.0
73.00	1149.0
74.00	4934.0
75.00	15556.0
76.00	1435.0
76.90	267.0
78.90	1063.0
79.90	340.0
80.90	906.0
81.90	279.0
86.90	1205.0
88.10	928.0
92.00	1030.0
93.00	1303.0
94.00	3785.0
95.00	30232.0
96.00	2066.0
103.90	188.0
115.90	151.0
117.90	228.0
118.90	208.0
127.80	172.0
140.90	432.0
143.00	491.0
172.10	229.0
174.00	26512.0
175.00	2100.0
176.00	26664.0
177.00	1577.0

Scan 94 (2.250 min): B19514.D
BFB91

m/z	Abundance
36.00	218.0
37.00	976.0
38.10	979.0
39.00	287.0
40.00	1747.0
43.90	568.0
45.00	208.0
47.00	230.0
49.00	903.0
50.10	4061.0
51.10	1492.0
56.00	457.0
57.00	562.0
60.10	205.0
61.10	889.0
62.10	1272.0
63.00	553.0
68.10	2371.0
69.00	2436.0
73.00	754.0
74.10	3191.0
75.00	10134.0
76.10	826.0
78.90	565.0
80.90	689.0
86.90	552.0
88.00	627.0
92.00	572.0
92.90	815.0
94.00	2802.0
95.00	19720.0
96.00	1383.0
116.80	239.0
141.10	242.0
143.10	308.0
172.00	156.0
174.00	20176.0
175.00	1587.0
175.90	19448.0
177.00	1513.0

BFB

Data File: C:\MSDChem\1\DATA\B19514.D
Acq On : 11/26/08 07:40 Operator: SB
Sample : BFB91 Inst :B-5973
Misc : BFB91
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

Scan 87 (2.200 min): B19514.D
BFB91

m/z	Abundance
40.00	1557.0
43.90	373.0

BFB

Data File: C:\MSDChem\1\DATA\B19514.D
Acq On : 11/26/08 07:40 Operator: SB
Sample : BFB91 Inst :B-5973
Misc : BFB91
ALS Vial: 1 Sample Multiplier: 1

Integration File: rteint.p
Method : C\MSDCHEM\1\METHODS\BFB - TUNE.M
Title : LOW SOIL VOLATILES ANALYSIS BY SOM01.0
Last Update: Sat Aug 25 19 : 31 : 42 2007

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK23

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17009

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK23

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17009

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK23

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17009

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.76	9.9	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\A17009.D
Acq On : 11/26/08 08:05
Sample : VBLK23
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Quant Time: Nov 26 13:03:44 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 12:17:07 2008
Response via : Initial Calibration

ORIGINAL
Case: 38009 SDG: C0253
Episode: S-2059 init/date 11/26/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.99	114	1330263	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.56	117	1201795	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.64	152	356892	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	795201	4.59	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 91.80%			
7) Chloroethane-d5	2.79	69	582556	5.68	ug/L	-0.01
Spiked Amount 5.000	Range 71 - 131		Recovery = 113.60%			
10) 1,1-Dichloroethene-d2	3.71	63	1706016	4.00	ug/L	-0.01
Spiked Amount 5.000	Range 55 - 104		Recovery = 80.00%			
21) 2-Butanone-d5	7.59	46	1555983	49.92	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 99.84%			
24) Chloroform-d	7.14	84	2146742	4.56	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 91.20%			
26) 1,2-Dichloroethane-d4	8.21	65	943141	5.02	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 100.40%			
32) Benzene-d6	7.96	84	4287674	4.84	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 96.80%			
36) 1,2-Dichloropropane-d6	9.57	67	1212668	4.60	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 92.00%			
41) Toluene-d8	11.09	98	4058988	5.00	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.00%			
43) trans-1,3-Dichloropropene-	11.83	79	922150	4.02	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 80.40%			
47) 2-Hexanone-d5	13.13	63	608107	45.90	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 91.80%			
57) 1,1,2,2-Tetrachloroethane-	16.03	84	514434	4.11	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 82.20%			
63) 1,2-Dichlorobenzene-d4	18.41	152	880221	5.43	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 108.60%			

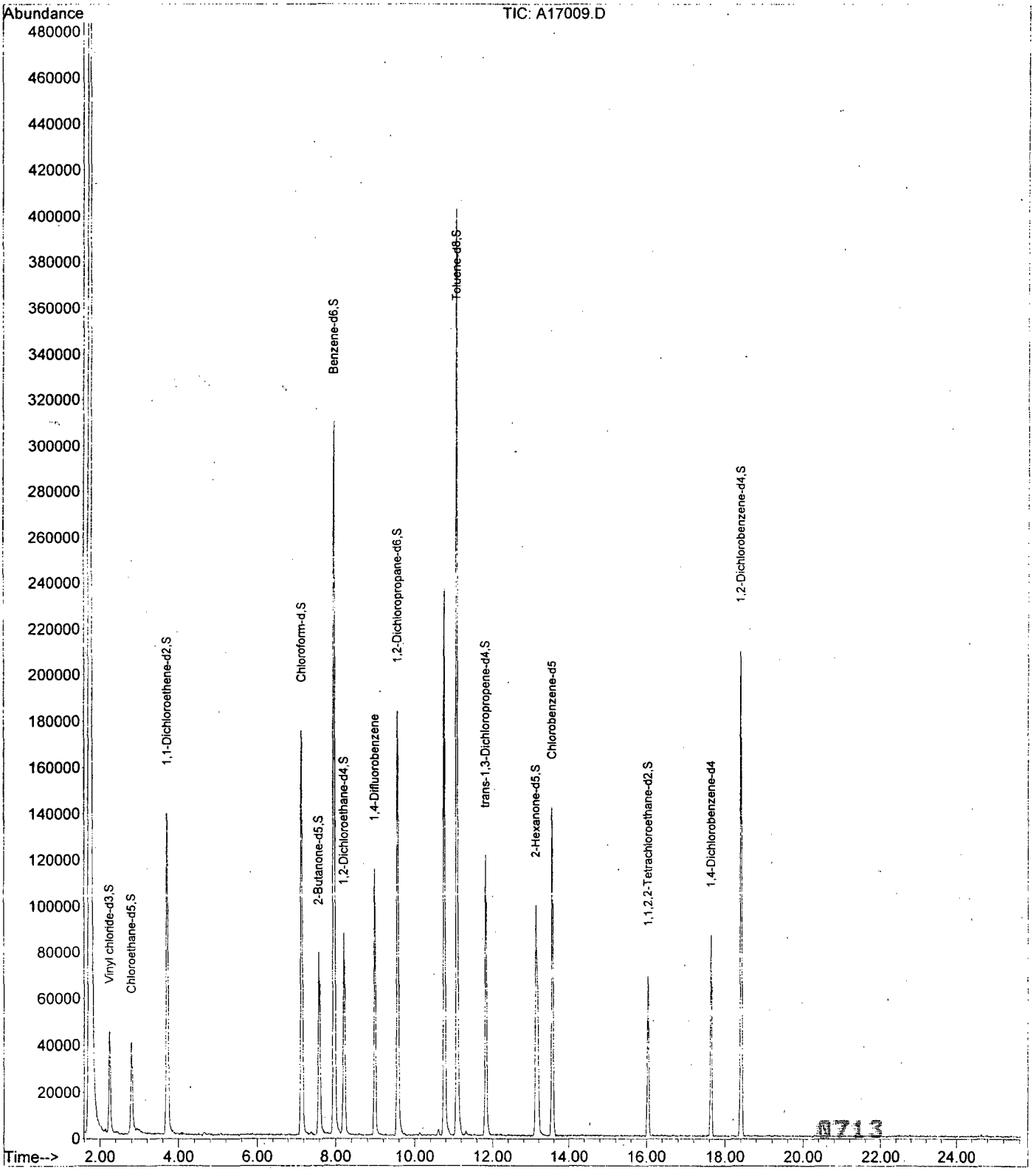
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0712

Data File: C:\MSDChem\1\DATA\A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 13:03:44 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Wed Nov 26 12:17:07 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.122	69	76	84	BV 3	671	19809	0.18%	0.022%
2	2.236	84	92	108	PV	43043	1271699	11.34%	1.431%
3	2.387	108	113	116	VV 2	907	19009	0.17%	0.021%
4	2.423	116	118	125	VV 2	1156	27279	0.24%	0.031%
5	2.487	125	127	134	VV 2	389	3953	0.04%	0.004%
6	2.552	134	136	143	VV 2	518	7933	0.07%	0.009%
7	2.616	143	145	147	PV 2	381	2490	0.02%	0.003%
8	2.638	147	148	154	VV	533	11334	0.10%	0.013%
9	2.695	154	156	157	VV	530	3447	0.03%	0.004%
10	2.788	157	169	184	VV 2	39712	1365484	12.18%	1.536%
11	2.938	184	190	196	VV 6	3013	120816	1.08%	0.136%
12	2.996	196	198	207	VV 2	2514	87528	0.78%	0.098%
13	3.075	207	209	212	VV 2	1571	24657	0.22%	0.028%
14	3.132	212	217	219	VV 2	1145	30764	0.27%	0.035%
15	3.153	219	220	223	VV 2	1010	12655	0.11%	0.014%
16	3.189	223	225	228	VV	902	13269	0.12%	0.015%
17	3.225	228	230	233	VV 2	985	14060	0.13%	0.016%
18	3.261	233	235	240	VV 3	988	21143	0.19%	0.024%
19	3.325	240	244	246	VV 2	805	15410	0.14%	0.017%
20	3.361	246	249	253	VV 2	749	16401	0.15%	0.018%
21	3.411	253	256	259	VV 3	972	15497	0.14%	0.017%
22	3.454	259	262	265	VV 2	851	14723	0.13%	0.017%
23	3.497	265	268	273	VV 2	836	16378	0.15%	0.018%
24	3.547	273	275	277	VV 2	666	6848	0.06%	0.008%
25	3.705	277	297	322	VV 2	138099	4745712	42.32%	5.339%
26	3.898	322	324	327	VV 2	1213	17647	0.16%	0.020%
27	3.941	327	330	333	VV 3	877	17166	0.15%	0.019%
28	3.977	333	335	347	VV 2	841	33041	0.29%	0.037%
29	4.077	347	349	351	VV	1089	10508	0.09%	0.012%
30	4.106	351	353	359	VV	1125	21502	0.19%	0.024%
31	4.156	359	360	364	VV 2	677	9981	0.09%	0.011%
32	4.199	364	366	368	VV	787	8050	0.07%	0.009%
33	4.228	368	370	373	VV	447	6475	0.06%	0.007%
34	4.264	373	375	380	VV	802	12283	0.11%	0.014%
35	4.314	380	382	388	VV 2	430	9739	0.09%	0.011%
36	4.371	388	390	394	VV	657	8255	0.07%	0.009%
37	4.414	394	396	399	VV 2	606	8646	0.08%	0.010%
38	4.443	399	400	404	VV	420	5179	0.05%	0.006%
39	4.493	404	407	409	VV 2	582	7998	0.07%	0.009%
40	4.514	409	410	413	VV	1032	7295	0.07%	0.008%
41	4.564	413	417	423	VV	493	12255	0.11%	0.014%
42	4.650	423	429	438	PV 3	1469	52160	0.47%	0.059%
43	4.765	438	445	447	VV 2	914	21118	0.19%	0.024%
44	4.801	447	450	452	VV	830	12525	0.11%	0.014%

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters:, LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.837	452	455	461	VV 2	832	14350	0.13%	0.016%
46	4.915	461	466	468	VV 2	545	9083	0.08%	0.010%
47	4.937	468	469	471	VV	335	3279	0.03%	0.004%
48	4.966	471	473	475	VV	458	6104	0.05%	0.007%
49	5.001	475	478	480	VV	624	9585	0.09%	0.011%
50	5.023	480	481	483	VV	818	7221	0.06%	0.008%
51	5.073	483	488	492	VV 2	1141	25754	0.23%	0.029%
52	5.116	492	494	495	VV	783	7791	0.07%	0.009%
53	5.137	495	497	501	VV	503	10669	0.10%	0.012%
54	5.195	501	505	511	VV	684	20834	0.19%	0.023%
55	5.252	511	513	517	VV	747	11883	0.11%	0.013%
56	5.295	517	519	522	VV	698	11205	0.10%	0.013%
57	5.331	522	524	526	VV 2	644	7104	0.06%	0.008%
58	5.367	526	529	532	VV	587	8781	0.08%	0.010%
59	5.395	532	533	539	VV	735	12634	0.11%	0.014%
60	5.453	539	541	544	VV 2	806	12227	0.11%	0.014%
61	5.496	544	547	548	VV	648	10052	0.09%	0.011%
62	5.517	548	550	554	VV 2	844	10470	0.09%	0.012%
63	5.560	554	556	558	PV 2	575	6532	0.06%	0.007%
64	5.589	558	560	562	VV	616	5857	0.05%	0.007%
65	5.625	562	565	567	VV 2	616	9923	0.09%	0.011%
66	5.668	567	571	574	VV 2	777	14438	0.13%	0.016%
67	5.725	574	579	581	VV 2	711	17067	0.15%	0.019%
68	5.761	581	584	588	VV 2	899	18118	0.16%	0.020%
69	5.818	588	592	594	VV 2	653	12282	0.11%	0.014%
70	5.847	594	596	597	VV	723	9664	0.09%	0.011%
71	5.882	597	601	604	VV	1142	17672	0.16%	0.020%
72	5.911	604	605	613	VV 2	529	17720	0.16%	0.020%
73	5.990	613	616	628	VV 2	786	32656	0.29%	0.037%
74	6.090	628	630	637	VV 2	707	19145	0.17%	0.022%
75	6.155	637	639	648	VV 2	519	21514	0.19%	0.024%
76	6.248	648	652	658	VV 2	793	25869	0.23%	0.029%
77	6.327	658	663	665	VV	956	19129	0.17%	0.022%
78	6.362	665	668	671	VV	752	13751	0.12%	0.015%
79	6.420	671	676	680	VV 2	701	18184	0.16%	0.020%
80	6.470	680	683	685	VV 2	602	8844	0.08%	0.010%
81	6.498	685	687	689	VV 2	738	9265	0.08%	0.010%
82	6.556	689	695	703	VV 2	861	35233	0.31%	0.040%
83	6.627	703	705	706	VV 2	969	8651	0.08%	0.010%
84	6.649	706	708	711	VV 2	593	9511	0.08%	0.011%
85	6.699	711	715	717	VV 2	839	15726	0.14%	0.018%
86	6.742	717	721	725	VV 2	675	14954	0.13%	0.017%
87	6.778	725	726	729	VV	762	11655	0.10%	0.013%
88	6.814	729	731	737	VV 2	967	22558	0.20%	0.025%
89	6.864	737	738	741	VV	855	11381	0.10%	0.013%
90	6.921	741	746	749	VV 2	634	16287	0.15%	0.018%
91	6.964	749	752	755	VV 2	695	13072	0.12%	0.015%

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Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.000	755	757	764	VV 2	717	24637	0.22%	0.028%
93	7.143	764	777	798	VV 2	171490	5630041	50.20%	6.334%
94	7.301	798	799	801	VV	1642	17730	0.16%	0.020%
95	7.329	801	803	806	VV 2	1547	21777	0.19%	0.025%
96	7.387	806	811	813	VV 3	1872	44102	0.39%	0.050%
97	7.408	813	814	816	VV	1955	17554	0.16%	0.020%
98	7.437	816	818	820	VV	1276	14384	0.13%	0.016%
99	7.473	820	823	827	VV 2	939	22383	0.20%	0.025%
100	7.587	827	839	865	VV	79795	2699614	24.07%	3.037%
101	7.795	865	868	872	VV 3	1597	37575	0.34%	0.042%
102	7.852	872	876	880	VV 3	1373	36843	0.33%	0.041%
103	7.960	880	891	915	VV 2	307352	9506405	84.76%	10.696%
104	8.210	915	926	943	VV	86513	2742574	24.45%	3.086%
105	8.354	943	946	953	VV 3	1132	38247	0.34%	0.043%
106	8.418	953	955	957	VV 2	901	15260	0.14%	0.017%
107	8.447	957	959	965	VV 2	1046	21720	0.19%	0.024%
108	8.504	965	967	971	VV 2	1020	18159	0.16%	0.020%
109	8.569	971	976	977	VV 2	929	18509	0.17%	0.021%
110	8.590	977	979	983	VV	1282	23120	0.21%	0.026%
111	8.633	983	985	989	VV	841	17476	0.16%	0.020%
112	8.669	989	990	994	VV 2	895	13919	0.12%	0.016%
113	8.705	994	995	997	VV	667	7249	0.06%	0.008%
114	8.748	997	1001	1004	VV 2	792	19328	0.17%	0.022%
115	8.798	1004	1008	1012	VV 2	850	24090	0.21%	0.027%
116	8.841	1012	1014	1019	VV 2	827	21337	0.19%	0.024%
117	8.891	1019	1021	1025	VV 2	1034	21060	0.19%	0.024%
118	8.984	1025	1034	1052	VV	113786	3264213	29.11%	3.673%
119	9.127	1052	1054	1058	VV	1330	24864	0.22%	0.028%
120	9.170	1058	1060	1064	VV 2	1256	23004	0.21%	0.026%
121	9.220	1064	1067	1071	VV	884	22378	0.20%	0.025%
122	9.263	1071	1073	1075	VV	1285	13487	0.12%	0.015%
123	9.292	1075	1077	1082	VV 2	834	21274	0.19%	0.024%
124	9.349	1082	1085	1087	VV	842	15961	0.14%	0.018%
125	9.392	1087	1091	1093	VV 2	965	19477	0.17%	0.022%
126	9.435	1093	1097	1100	VV 2	983	26358	0.24%	0.030%
127	9.471	1100	1102	1105	VV	794	13259	0.12%	0.015%
128	9.571	1105	1116	1131	VV	182946	5738271	51.17%	6.456%
129	9.686	1131	1132	1146	VV 5	2371	74316	0.66%	0.084%
130	9.793	1146	1147	1151	VV 2	810	14132	0.13%	0.016%
131	9.865	1151	1157	1161	VV 2	916	33702	0.30%	0.038%
132	9.915	1161	1164	1169	VV	811	20900	0.19%	0.024%
133	9.965	1169	1171	1173	VV 2	895	14372	0.13%	0.016%
134	10.001	1173	1176	1178	VV	920	14323	0.13%	0.016%
135	10.044	1178	1182	1184	VV 2	1104	27934	0.25%	0.031%
136	10.080	1184	1187	1189	VV 2	959	16944	0.15%	0.019%
137	10.130	1189	1194	1207	VV 3	1842	76416	0.68%	0.086%
138	10.252	1207	1211	1213	VV 2	1059	21940	0.20%	0.025%
139	10.273	1213	1214	1217	VV	818	12497	0.11%	0.014%

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.309	1217	1219	1224	VV		994	25031	0.22%	0.028%
141	10.374	1224	1228	1231	VV	2	943	26936	0.24%	0.030%
142	10.431	1231	1236	1238	VV		1151	22418	0.20%	0.025%
143	10.452	1238	1239	1243	VV		1063	19657	0.18%	0.022%
144	10.488	1243	1244	1250	VV	2	1026	27669	0.25%	0.031%
145	10.560	1250	1254	1256	VV		1218	20171	0.18%	0.023%
146	10.617	1256	1262	1267	VV	4	3385	96007	0.86%	0.108%
147	10.682	1267	1271	1273	VV	2	1019	23118	0.21%	0.026%
148	10.760	1273	1282	1307	VV		233437	6458024	57.58%	7.266%
149	10.954	1307	1309	1314	VV	2	1246	31329	0.28%	0.035%
150	11.004	1314	1316	1317	VV		1272	14640	0.13%	0.016%
151	11.083	1317	1327	1350	VV		398006	11215168	100.00%	12.618%
152	11.269	1350	1353	1354	VV	2	1404	23585	0.21%	0.027%
153	11.319	1354	1360	1371	VV	2	2750	107003	0.95%	0.120%
154	11.412	1371	1373	1378	VV		1496	31714	0.28%	0.036%
155	11.455	1378	1379	1383	VV	2	1102	22865	0.20%	0.026%
156	11.505	1383	1386	1389	VV	2	1160	23781	0.21%	0.027%
157	11.541	1389	1391	1405	VV	2	1510	72845	0.65%	0.082%
158	11.656	1405	1407	1411	VV	2	1199	21976	0.20%	0.025%
159	11.720	1411	1416	1419	VV	2	1201	38681	0.34%	0.044%
160	11.821	1419	1430	1450	VV		120460	3371514	30.06%	3.793%
161	11.978	1450	1452	1456	VV	2	1387	29630	0.26%	0.033%
162	12.021	1456	1458	1463	VV	2	1478	34849	0.31%	0.039%
163	12.086	1463	1467	1469	VV		1605	34284	0.31%	0.039%
164	12.121	1469	1472	1477	VV	2	1561	35653	0.32%	0.040%
165	12.172	1477	1479	1480	VV	2	1327	16266	0.15%	0.018%
166	12.193	1480	1482	1486	VV		1628	33343	0.30%	0.038%
167	12.229	1486	1487	1491	VV		1545	28042	0.25%	0.032%
168	12.279	1491	1494	1496	VV	2	1175	21371	0.19%	0.024%
169	12.301	1496	1497	1503	VV	2	1263	31795	0.28%	0.036%
170	12.379	1503	1508	1517	VV	2	1166	63837	0.57%	0.072%
171	12.480	1517	1522	1525	VV	2	1386	36892	0.33%	0.042%
172	12.523	1525	1528	1530	VV		1273	21081	0.19%	0.024%
173	12.566	1530	1534	1543	VV	2	1292	58751	0.52%	0.066%
174	12.644	1543	1545	1548	VV		1393	24783	0.22%	0.028%
175	12.680	1548	1550	1556	VV	2	1467	36129	0.32%	0.041%
176	12.745	1556	1559	1561	VV		1335	24026	0.21%	0.027%
177	12.780	1561	1564	1569	VV	2	1448	36735	0.33%	0.041%
178	12.823	1569	1570	1573	VV		1262	18111	0.16%	0.020%
179	12.866	1573	1576	1578	VV	2	1211	25188	0.22%	0.028%
180	12.895	1578	1580	1585	VV	2	1114	27758	0.25%	0.031%
181	12.945	1585	1587	1592	VV		1395	37374	0.33%	0.042%
182	13.002	1592	1595	1598	VV	2	1304	27487	0.25%	0.031%
183	13.045	1598	1601	1602	VV	2	1189	18064	0.16%	0.020%
184	13.124	1602	1612	1631	VV	2	98922	4348784	38.78%	4.893%
185	13.268	1631	1632	1640	VV	3	2470	69899	0.62%	0.079%
186	13.339	1640	1642	1645	VV		1698	34852	0.31%	0.039%

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Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.389	1645	1649	1656	VV 2	1578	60451	0.54%	0.068%
188	13.454	1656	1658	1661	VV	1354	23676	0.21%	0.027%
189	13.554	1661	1672	1686	VV	141624	4015934	35.81%	4.518%
190	13.683	1686	1690	1696	VV 2	1714	56515	0.50%	0.064%
191	13.740	1696	1698	1700	VV	1446	15584	0.14%	0.018%
192	13.762	1700	1701	1706	VV 2	1323	34044	0.30%	0.038%
193	13.805	1706	1707	1709	VV	1524	17304	0.15%	0.019%
194	13.862	1709	1715	1717	VV 2	1506	38033	0.34%	0.043%
195	13.905	1717	1721	1723	VV	1513	34584	0.31%	0.039%
196	13.934	1723	1725	1730	VV 2	1543	36129	0.32%	0.041%
197	13.984	1730	1732	1734	VV	1528	24041	0.21%	0.027%
198	14.012	1734	1736	1739	VV	1328	23097	0.21%	0.026%
199	14.048	1739	1741	1749	VV 2	1309	51201	0.46%	0.058%
200	14.134	1749	1753	1761	VV 2	1357	59833	0.53%	0.067%
201	14.206	1761	1763	1765	VV 2	1245	23217	0.21%	0.026%
202	14.242	1765	1768	1772	VV 2	1524	37496	0.33%	0.042%
203	14.285	1772	1774	1776	VV	1367	17035	0.15%	0.019%
204	14.306	1776	1777	1779	VV 2	1352	20070	0.18%	0.023%
205	14.349	1779	1783	1785	VV	1813	32058	0.29%	0.036%
206	14.392	1785	1789	1792	VV 2	1430	35911	0.32%	0.040%
207	14.435	1792	1795	1802	VV 2	1539	57675	0.51%	0.065%
208	14.507	1802	1805	1807	VV 2	1508	30509	0.27%	0.034%
209	14.535	1807	1809	1819	VV	1330	59892	0.53%	0.067%
210	14.621	1819	1821	1825	VV 2	1540	30730	0.27%	0.035%
211	14.671	1825	1828	1830	VV 2	1583	31605	0.28%	0.036%
212	14.707	1830	1833	1838	VV 2	1538	46105	0.41%	0.052%
213	14.757	1838	1840	1842	VV	1484	23534	0.21%	0.026%
214	14.786	1842	1844	1846	VV 2	1574	20130	0.18%	0.023%
215	14.815	1846	1848	1850	VV	1684	22019	0.20%	0.025%
216	14.843	1850	1852	1854	VV	1550	26825	0.24%	0.030%
217	14.886	1854	1858	1865	VV 2	1513	60028	0.54%	0.068%
218	14.951	1865	1867	1871	VV 2	1387	30184	0.27%	0.034%
219	14.994	1871	1873	1879	VV 2	1481	44865	0.40%	0.050%
220	15.051	1879	1881	1884	VV	1534	25128	0.22%	0.028%
221	15.087	1884	1886	1891	VV 2	1314	37714	0.34%	0.042%
222	15.137	1891	1893	1894	VV	1480	17381	0.15%	0.020%
223	15.159	1894	1896	1899	VV	1334	24566	0.22%	0.028%
224	15.194	1899	1901	1915	VV 2	1434	88648	0.79%	0.100%
225	15.323	1915	1919	1926	VV 2	1482	62340	0.56%	0.070%
226	15.395	1926	1929	1931	VV	1462	30226	0.27%	0.034%
227	15.438	1931	1935	1939	VV 2	1640	50992	0.45%	0.057%
228	15.481	1939	1941	1943	VV	1632	24533	0.22%	0.028%
229	15.517	1943	1946	1952	VV 2	1566	50469	0.45%	0.057%
230	15.581	1952	1955	1961	VV	1582	48586	0.43%	0.055%
231	15.667	1961	1967	1968	VV 2	1475	44939	0.40%	0.051%
232	15.696	1968	1971	1980	VV	1856	68489	0.61%	0.077%
233	15.810	1980	1987	1995	VV 2	1705	94372	0.84%	0.106%
234	15.889	1995	1998	2009	VV	1698	80539	0.72%	0.091%

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.032	2009	2018	2029	VV	2	69671	1945527	17.35%	2.189%
236	16.161	2029	2036	2039	VV	2	1970	60189	0.54%	0.068%
237	16.197	2039	2041	2047	VV		1695	49865	0.44%	0.056%
238	16.255	2047	2049	2051	VV	2	1628	26145	0.23%	0.029%
239	16.283	2051	2053	2057	VV	2	1710	35987	0.32%	0.040%
240	16.333	2057	2060	2062	VV	2	1504	26573	0.24%	0.030%
241	16.355	2062	2063	2065	VV	2	1503	15201	0.14%	0.017%
242	16.383	2065	2067	2084	VV	2	1830	121615	1.08%	0.137%
243	16.520	2084	2086	2089	VV	2	1512	28550	0.25%	0.032%
244	16.555	2089	2091	2093	VV	2	1520	22330	0.20%	0.025%
245	16.591	2093	2096	2100	VV	2	1515	41594	0.37%	0.047%
246	16.663	2100	2106	2108	VV		1744	51803	0.46%	0.058%
247	16.691	2108	2110	2118	VV	2	1727	68164	0.61%	0.077%
248	16.770	2118	2121	2125	VV		1563	36352	0.32%	0.041%
249	16.806	2125	2126	2128	VV		1540	19818	0.18%	0.022%
250	16.863	2128	2134	2138	VV		1669	60714	0.54%	0.068%
251	16.906	2138	2140	2144	VV	2	1652	43654	0.39%	0.049%
252	16.985	2144	2151	2153	VV	2	1767	57071	0.51%	0.064%
253	17.035	2153	2158	2161	VV	2	1691	48542	0.43%	0.055%
254	17.107	2161	2168	2173	VV	2	1729	77603	0.69%	0.087%
255	17.171	2173	2177	2180	VV	2	1580	43438	0.39%	0.049%
256	17.214	2180	2183	2188	VV	2	1789	53104	0.47%	0.060%
257	17.265	2188	2190	2192	VV	2	1651	24356	0.22%	0.027%
258	17.307	2192	2196	2198	VV		1711	38843	0.35%	0.044%
259	17.350	2198	2202	2209	VV	2	1793	74553	0.66%	0.084%
260	17.444	2209	2215	2227	VV	2	1766	114657	1.02%	0.129%
261	17.544	2227	2229	2233	VV	2	1920	43808	0.39%	0.049%
262	17.637	2233	2242	2252	VV		87252	2271076	20.25%	2.555%
263	17.723	2252	2254	2259	VV	2	1737	46175	0.41%	0.052%
264	17.766	2259	2260	2274	VV	2	1860	100109	0.89%	0.113%
265	17.873	2274	2275	2281	VV	2	1808	50456	0.45%	0.057%
266	17.938	2281	2284	2286	VV	2	1757	35602	0.32%	0.040%
267	17.966	2286	2288	2293	VV	2	1766	48906	0.44%	0.055%
268	18.017	2293	2295	2302	VV	2	1927	63650	0.57%	0.072%
269	18.081	2302	2304	2308	VV	2	1693	36491	0.33%	0.041%
270	18.124	2308	2310	2311	VV	2	1760	26777	0.24%	0.030%
271	18.146	2311	2313	2317	VV	2	1636	39023	0.35%	0.044%
272	18.203	2317	2321	2326	VV	2	1868	62362	0.56%	0.070%
273	18.246	2326	2327	2330	VV		1634	24469	0.22%	0.028%
274	18.274	2330	2331	2335	VV	2	1580	32894	0.29%	0.037%
275	18.403	2335	2349	2368	VV		208792	5699700	50.82%	6.413%
276	18.561	2368	2371	2374	VV	2	1809	48284	0.43%	0.054%
277	18.597	2374	2376	2383	VV	2	2030	64408	0.57%	0.072%
278	18.661	2383	2385	2387	VV		1583	23813	0.21%	0.027%
279	18.690	2387	2389	2395	VV	2	1736	53950	0.48%	0.061%
280	18.769	2395	2400	2402	VV	2	2014	57911	0.52%	0.065%
281	18.797	2402	2404	2407	VV		1857	33523	0.30%	0.038%

0719

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.848	2407	2411	2413	VV 2	1889	43321	0.39%	0.049%
283	18.890	2413	2417	2420	VV 2	1800	47566	0.42%	0.054%
284	18.926	2420	2422	2427	VV	1753	47279	0.42%	0.053%
285	18.976	2427	2429	2430	VV	1716	25421	0.23%	0.029%
286	19.012	2430	2434	2436	VV 2	1815	45530	0.41%	0.051%
287	19.055	2436	2440	2442	VV 2	2069	41876	0.37%	0.047%
288	19.091	2442	2445	2447	VV 2	2084	42331	0.38%	0.048%
289	19.127	2447	2450	2457	VV 2	2264	74611	0.67%	0.084%
290	19.206	2457	2461	2466	VV 2	1820	60320	0.54%	0.068%
291	19.256	2466	2468	2472	VV	2133	52867	0.47%	0.059%
292	19.306	2472	2475	2478	VV 2	1884	47271	0.42%	0.053%
293	19.342	2478	2480	2485	VV 2	1898	48040	0.43%	0.054%
294	19.392	2485	2487	2489	VV	1850	28909	0.26%	0.033%
295	19.471	2489	2498	2502	VV 2	2080	101339	0.90%	0.114%
296	19.507	2502	2503	2507	VV 2	1862	35195	0.31%	0.040%
297	19.549	2507	2509	2510	VV	1900	25221	0.22%	0.028%
298	19.592	2510	2515	2518	VV	1975	60597	0.54%	0.068%
299	19.628	2518	2520	2523	VV 2	1880	38541	0.34%	0.043%
300	19.671	2523	2526	2528	VV	1972	38351	0.34%	0.043%
301	19.707	2528	2531	2533	VV	1919	32188	0.29%	0.036%
302	19.736	2533	2535	2540	VV 3	2002	55634	0.50%	0.063%
303	19.786	2540	2542	2557	VV 2	1773	130333	1.16%	0.147%
304	19.908	2557	2559	2562	VV 2	2099	37919	0.34%	0.043%
305	19.958	2562	2566	2570	VV 2	1893	56528	0.50%	0.064%
306	19.994	2570	2571	2576	VV	1956	44543	0.40%	0.050%
307	20.037	2576	2577	2579	VV 2	1823	25625	0.23%	0.029%
308	20.058	2579	2580	2585	VV	2076	48299	0.43%	0.054%
309	20.108	2585	2587	2589	VV	1971	28547	0.25%	0.032%
310	20.151	2589	2593	2596	VV 2	1844	53103	0.47%	0.060%
311	20.187	2596	2598	2600	VV 2	1960	29681	0.26%	0.033%
312	20.223	2600	2603	2606	VV 2	1864	43463	0.39%	0.049%
313	20.280	2606	2611	2617	VV 2	2281	87450	0.78%	0.098%
314	20.352	2617	2621	2623	VV 2	2206	46830	0.42%	0.053%
315	20.388	2623	2626	2628	VV	1916	37245	0.33%	0.042%
316	20.502	2628	2642	2644	VV 2	1998	121192	1.08%	0.136%
317	20.524	2644	2645	2647	VV	2177	24879	0.22%	0.028%
318	20.552	2647	2649	2653	VV 2	2102	46779	0.42%	0.053%
319	20.588	2653	2654	2658	VV	1835	37420	0.33%	0.042%
320	20.653	2658	2663	2672	VV 2	2031	112248	1.00%	0.126%
321	20.767	2672	2679	2685	VV	1992	95439	0.85%	0.107%
322	20.825	2685	2687	2688	VV	1895	28822	0.26%	0.032%
323	20.860	2688	2692	2694	VV 2	2011	42789	0.38%	0.048%
324	20.889	2694	2696	2698	VV 2	2022	33912	0.30%	0.038%
325	20.918	2698	2700	2701	VV	2020	29185	0.26%	0.033%
326	20.953	2701	2705	2708	VV 2	2279	57252	0.51%	0.064%
327	20.996	2708	2711	2719	VV 2	2075	85389	0.76%	0.096%
328	21.061	2719	2720	2722	VV	2191	24212	0.22%	0.027%
329	21.097	2722	2725	2736	VV 2	2193	111377	0.99%	0.125%

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	21.190	2736	2738	2740	VV 2	2191	34679	0.31%	0.039%
331	21.240	2740	2745	2751	VV 2	2059	84802	0.76%	0.095%
332	21.290	2751	2752	2759	VV 2	2033	65527	0.58%	0.074%
333	21.347	2759	2760	2762	VV	2137	28719	0.26%	0.032%
334	21.376	2762	2764	2765	VV	1999	26588	0.24%	0.030%
335	21.398	2765	2767	2772	VV	1967	51299	0.46%	0.058%
336	21.455	2772	2775	2783	VV 2	2125	92886	0.83%	0.105%
337	21.526	2783	2785	2787	VV	2009	25282	0.23%	0.028%
338	21.569	2787	2791	2795	VV 2	2172	69546	0.62%	0.078%
339	21.612	2795	2797	2799	VV	2074	28496	0.25%	0.032%
340	21.641	2799	2801	2814	VV 2	2213	131199	1.17%	0.148%
341	21.741	2814	2815	2817	VV 2	2113	27315	0.24%	0.031%
342	21.770	2817	2819	2821	VV 2	2224	39326	0.35%	0.044%
343	21.820	2821	2826	2828	VV	2061	52335	0.47%	0.059%
344	21.849	2828	2830	2833	VV 2	2052	42258	0.38%	0.048%
345	21.892	2833	2836	2838	VV 2	2440	44019	0.39%	0.050%
346	21.920	2838	2840	2843	VV 2	2043	40546	0.36%	0.046%
347	21.956	2843	2845	2847	VV	2164	33165	0.30%	0.037%
348	22.014	2847	2853	2861	VV 2	2492	127665	1.14%	0.144%
349	22.100	2861	2865	2867	VV 2	2160	47667	0.43%	0.054%
350	22.135	2867	2870	2874	VV	2222	66313	0.59%	0.075%
351	22.178	2874	2876	2878	VV 2	2288	28636	0.26%	0.032%
352	22.221	2878	2882	2884	VV 2	2369	53308	0.48%	0.060%
353	22.250	2884	2886	2890	VV 2	2208	49941	0.45%	0.056%
354	22.286	2890	2891	2892	VV	2147	25665	0.23%	0.029%
355	22.307	2892	2894	2896	VV 2	2258	33858	0.30%	0.038%
356	22.336	2896	2898	2901	VV 2	2359	43592	0.39%	0.049%
357	22.386	2901	2905	2906	VV 2	2191	43798	0.39%	0.049%
358	22.400	2906	2907	2909	VV	2160	25988	0.23%	0.029%
359	22.443	2909	2913	2918	VV 2	2328	75905	0.68%	0.085%
360	22.486	2918	2919	2921	VV	2658	29168	0.26%	0.033%
361	22.515	2921	2923	2932	VV 2	2220	98432	0.88%	0.111%
362	22.651	2932	2942	2945	VV	2514	114277	1.02%	0.129%
363	22.680	2945	2946	2948	VV	2236	35015	0.31%	0.039%
364	22.708	2948	2950	2954	VV 2	2221	49417	0.44%	0.056%
365	22.780	2954	2960	2962	VV 2	2587	78177	0.70%	0.088%
366	22.830	2962	2967	2973	VV	2313	98291	0.88%	0.111%
367	22.887	2973	2975	2977	VV	2210	35301	0.31%	0.040%
368	22.909	2977	2978	2981	VV	2164	37436	0.33%	0.042%
369	22.952	2981	2984	2985	VBA	2419	31923	0.28%	0.036%

Sum of corrected areas: 88879535

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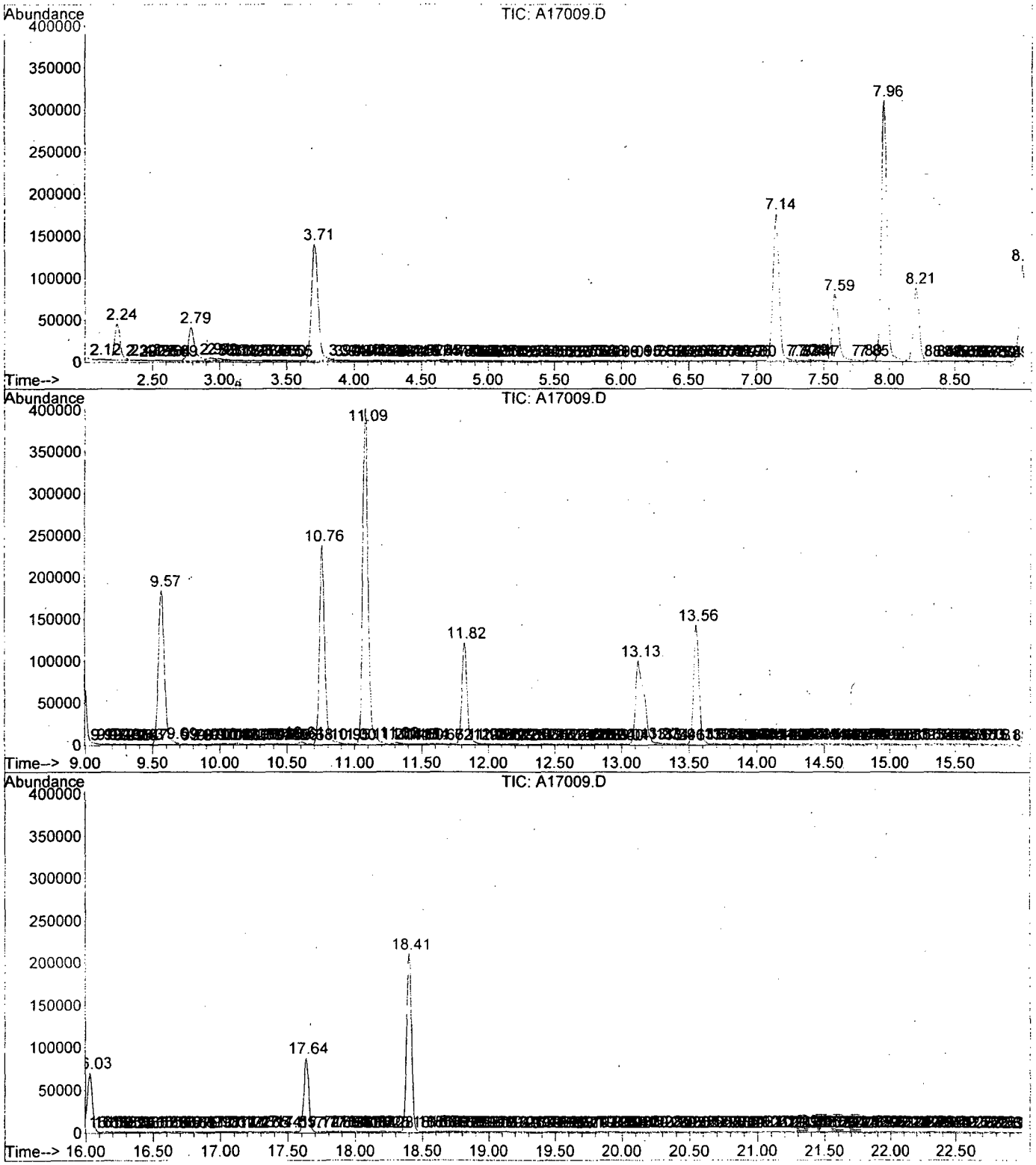
Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L,
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

11/26/08

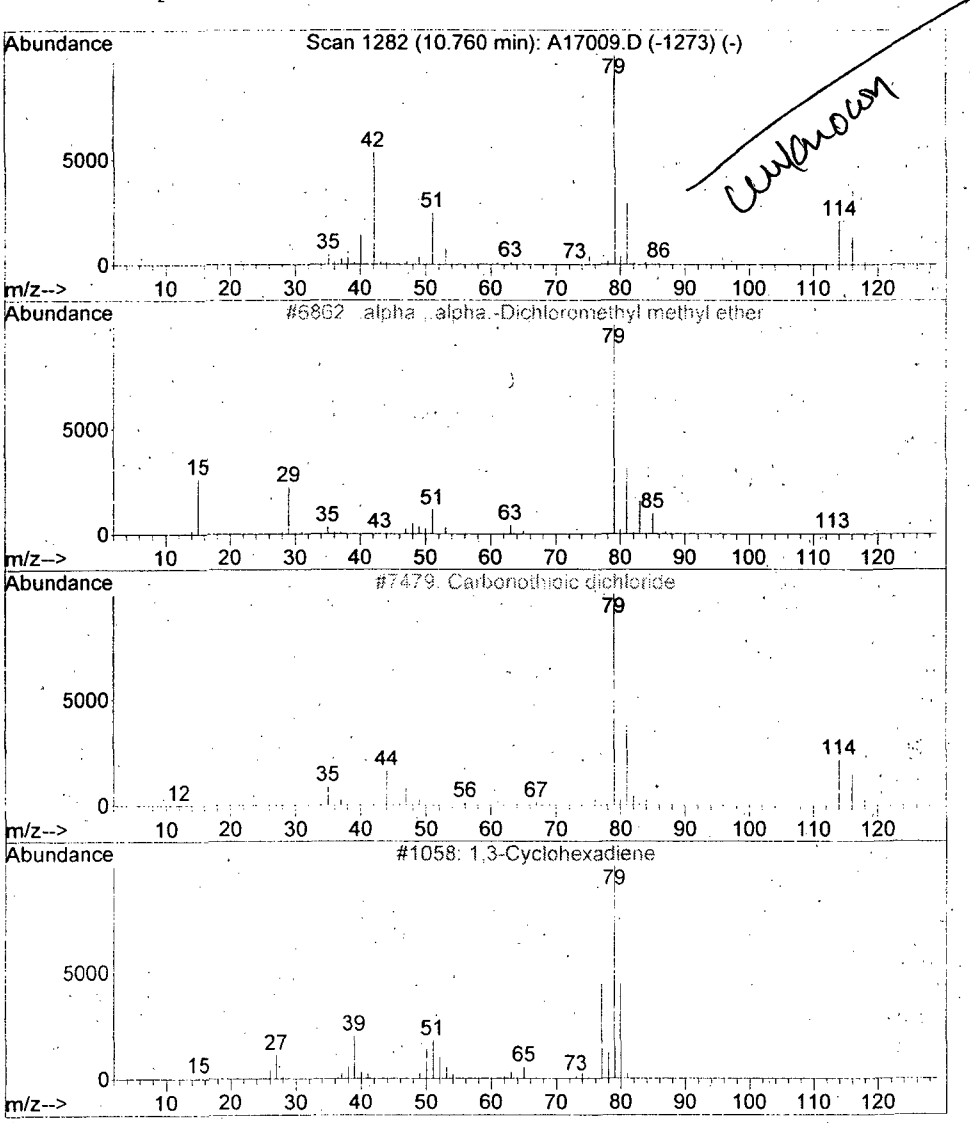
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

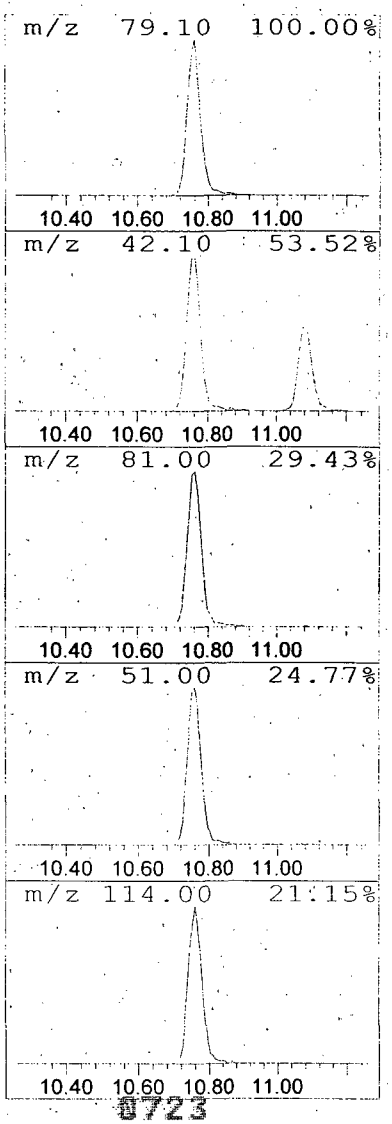
****

Peak Number 1 .alpha.,.alpha.-Dichloromet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.76	9.89 ug/L	6458020	1,4-Difluorobenzene	8.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	37
2	Carbonothioic dichloride	114	CCl2S	000463-71-8	28
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17





0723

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : A17009.D
Acq On : 11/26/08 08:05 Operator: SB
Sample : VBLK23 Inst : A-5973
Misc : VBLK23 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.,.alpha.-D...	10.76	9.9	ug/L	6458020	1	8.99	3264210	5.0

0724

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK25

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17028

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK25

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17028

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK25

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17028

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.78	10	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17028.D
Acq On : 11/26/08 18:46
Sample : VBLK25
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38065 SDG: G3FH6
Episode: S-2029 Init/date: 11/28/08

Quant Time: Nov 28 10:16:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1260496	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1136555	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	367965	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	751155	4.57	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 91.40%			
7) Chloroethane-d5	2.80	69	535989	5.52	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 110.40%			
10) 1,1-Dichloroethene-d2	3.72	63	1442503	3.57	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 71.40%			
21) 2-Butanone-d5	7.60	46	1772254	60.01	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 120.02%			
24) Chloroform-d	7.16	84	2025092	4.54	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 90.80%			
26) 1,2-Dichloroethane-d4	8.22	65	921438	5.17	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 103.40%			
32) Benzene-d6	7.98	84	3903967	4.66	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 93.20%			
36) 1,2-Dichloropropane-d6	9.58	67	1164325	4.67	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 93.40%			
41) Toluene-d8	11.10	98	3840633	5.00	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.00%			
43) trans-1,3-Dichloropropene-	11.84	79	927909	4.27	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 85.40%			
47) 2-Hexanone-d5	13.17	63	744324	59.41	ug/L	0.03
Spiked Amount 50.000	Range 28 - 135		Recovery = 118.82%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	538834	4.55	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 91.00%			
63) 1,2-Dichlorobenzene-d4	18.42	152	896098	5.36	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 107.20%			

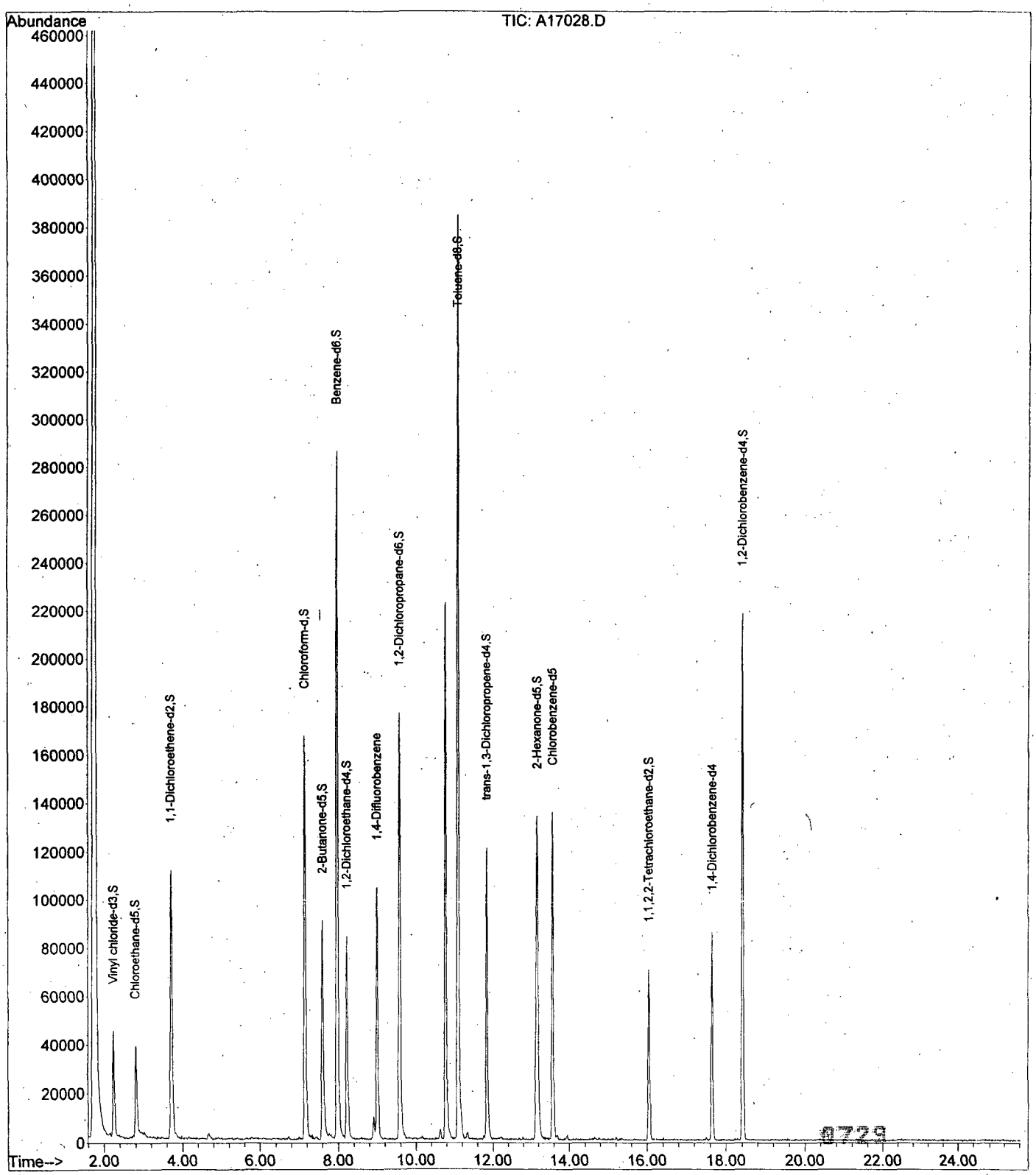
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0728

Data File: C:\MSDCHEM\1\DATA\A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 10:16:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 10:14:52 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.143	74	79	85	PV 3	1059	30287	0.28%	0.033%
2	2.251	85	94	107	PV	42479	1211682	11.32%	1.310%
3	2.387	107	113	116	VV 3	1094	30894	0.29%	0.033%
4	2.430	116	119	125	VV 4	742	19934	0.19%	0.022%
5	2.480	125	126	133	VV	608	10114	0.09%	0.011%
6	2.559	133	137	139	VV 2	705	8420	0.08%	0.009%
7	2.587	139	141	142	PV	248	1836	0.02%	0.002%
8	2.659	142	151	153	VV 2	1002	21579	0.20%	0.023%
9	2.688	153	155	159	VV 2	718	14680	0.14%	0.016%
10	2.802	159	171	180	VV	37890	1213806	11.34%	1.312%
11	2.874	180	181	185	VV 3	3830	66459	0.62%	0.072%
12	2.924	185	188	192	VV 4	2905	79375	0.74%	0.086%
13	2.967	192	194	196	VV 2	2819	47947	0.45%	0.052%
14	3.010	196	200	208	VV 4	2889	102515	0.96%	0.111%
15	3.082	208	210	213	VV	1367	24711	0.23%	0.027%
16	3.118	213	215	220	VV 3	970	24492	0.23%	0.026%
17	3.168	220	222	230	VV 2	1315	31946	0.30%	0.035%
18	3.254	230	234	238	VV 2	1073	23893	0.22%	0.026%
19	3.304	238	241	246	VV 2	845	15934	0.15%	0.017%
20	3.354	246	248	250	VV	1129	10416	0.10%	0.011%
21	3.390	250	253	260	VV 3	857	24957	0.23%	0.027%
22	3.461	260	263	265	VV	777	13111	0.12%	0.014%
23	3.490	265	267	274	VV 2	732	12551	0.12%	0.014%
24	3.554	274	276	279	VV	406	4560	0.04%	0.005%
25	3.590	279	281	283	VV 2	533	4953	0.05%	0.005%
26	3.619	283	285	287	VV 2	451	6465	0.06%	0.007%
27	3.719	287	299	323	PV	110544	3937275	36.80%	4.256%
28	3.905	323	325	327	VV	894	11154	0.10%	0.012%
29	3.934	327	329	333	VV	915	13120	0.12%	0.014%
30	3.977	333	335	348	VV 2	1084	29247	0.27%	0.032%
31	4.085	348	350	355	VV	537	12427	0.12%	0.013%
32	4.156	355	360	366	VV 2	1160	25660	0.24%	0.028%
33	4.213	366	368	370	VV 2	669	7562	0.07%	0.008%
34	4.242	370	372	374	VV	469	5140	0.05%	0.006%
35	4.278	374	377	384	VV 2	686	17843	0.17%	0.019%
36	4.335	384	385	395	VV 2	717	18156	0.17%	0.020%
37	4.457	395	402	407	VV 2	542	17397	0.16%	0.019%
38	4.514	407	410	417	VV 2	711	20335	0.19%	0.022%
39	4.579	417	419	425	VV 2	602	11547	0.11%	0.012%
40	4.672	425	432	441	VV 3	2593	92519	0.86%	0.100%
41	4.744	441	442	449	VV 2	899	13722	0.13%	0.015%
42	4.808	449	451	453	VV 2	466	4899	0.05%	0.005%
43	4.837	453	455	459	VV 2	362	9782	0.09%	0.010%
44	4.908	459	465	469	VV 3	947	27598	0.26%	0.030%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.958	469	472	475	VV	625	12204	0.11%	0.013%
46	5.001	475	478	483	VV 2	725	15997	0.15%	0.017%
47	5.059	483	486	488	VV 2	535	7611	0.07%	0.008%
48	5.087	488	490	492	VV	626	8178	0.08%	0.009%
49	5.116	492	494	499	VV	497	9044	0.08%	0.010%
50	5.166	499	501	504	VV 2	785	12192	0.11%	0.013%
51	5.202	504	506	508	VV	810	9761	0.09%	0.011%
52	5.231	508	510	512	VV	747	12591	0.12%	0.014%
53	5.274	512	516	520	VV	966	14691	0.14%	0.016%
54	5.345	520	526	530	VV 2	674	15542	0.15%	0.017%
55	5.395	530	533	538	VV 2	842	22572	0.21%	0.024%
56	5.438	538	539	542	VV	511	6102	0.06%	0.007%
57	5.481	542	545	548	VV 2	634	11328	0.11%	0.012%
58	5.524	548	551	552	VV	564	5299	0.05%	0.006%
59	5.546	552	554	556	VV	555	5182	0.05%	0.006%
60	5.589	556	560	561	VV 2	373	6142	0.06%	0.007%
61	5.632	561	566	569	VV 2	675	11908	0.11%	0.013%
62	5.668	569	571	575	VV	728	11851	0.11%	0.013%
63	5.775	575	586	587	VV 2	1071	29383	0.27%	0.032%
64	5.811	587	591	594	VV 2	887	18803	0.18%	0.020%
65	5.847	594	596	598	VV	758	8396	0.08%	0.009%
66	5.897	598	603	607	VV 2	865	27063	0.25%	0.029%
67	5.940	607	609	616	VV 2	798	21258	0.20%	0.023%
68	6.004	616	618	620	VV 2	682	9465	0.09%	0.010%
69	6.033	620	622	624	VV	650	6987	0.07%	0.008%
70	6.083	624	629	631	VV	818	20740	0.19%	0.022%
71	6.112	631	633	639	VV 2	688	16312	0.15%	0.018%
72	6.169	639	641	647	VV 2	754	15308	0.14%	0.017%
73	6.219	647	648	650	VV 2	638	6949	0.06%	0.008%
74	6.262	650	654	656	VV	550	10141	0.09%	0.011%
75	6.284	656	657	658	VV	438	4137	0.04%	0.004%
76	6.319	658	662	664	VV 2	783	13867	0.13%	0.015%
77	6.341	664	665	671	VV 2	852	18975	0.18%	0.021%
78	6.413	671	675	678	VV 2	772	16387	0.15%	0.018%
79	6.463	678	682	684	VV	875	16472	0.15%	0.018%
80	6.491	684	686	691	VV 2	708	14745	0.14%	0.016%
81	6.541	691	693	695	VV	643	7322	0.07%	0.008%
82	6.570	695	697	700	VV 2	829	14103	0.13%	0.015%
83	6.606	700	702	704	VV	828	9988	0.09%	0.011%
84	6.670	704	711	713	VV 2	768	18740	0.18%	0.020%
85	6.713	713	717	725	VV 3	1332	44778	0.42%	0.048%
86	6.778	725	726	730	VV 2	691	10439	0.10%	0.011%
87	6.821	730	732	734	VV 2	592	6510	0.06%	0.007%
88	6.849	734	736	742	VV 2	665	17097	0.16%	0.018%
89	6.907	742	744	749	VV	625	14334	0.13%	0.015%
90	6.993	749	756	761	VV 3	1516	47365	0.44%	0.051%
91	7.050	761	764	766	VV 2	960	16431	0.15%	0.018%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.157	766	779	798	VV		164422	5345906	49.96%	5.778%
93	7.322	798	802	806	VV	3	2382	54623	0.51%	0.059%
94	7.358	806	807	812	VV	2	1433	26132	0.24%	0.028%
95	7.437	812	818	820	VV	3	1774	47709	0.45%	0.052%
96	7.465	820	822	826	VV	2	1163	19520	0.18%	0.021%
97	7.501	826	827	830	VV		677	10355	0.10%	0.011%
98	7.602	830	841	860	VV	2	89886	3064876	28.64%	3.313%
99	7.759	860	863	867	VV	3	2898	68480	0.64%	0.074%
100	7.802	867	869	876	VV	2	2533	65736	0.61%	0.071%
101	7.867	876	878	882	VV	2	1395	27927	0.26%	0.030%
102	7.974	882	893	913	VV		283476	8855938	82.77%	9.572%
103	8.132	913	915	919	VV	3	2298	46554	0.44%	0.050%
104	8.225	919	928	950	VV	2	83241	2716917	25.39%	2.937%
105	8.397	950	952	955	VV		1206	22066	0.21%	0.024%
106	8.447	955	959	961	VV		1039	18839	0.18%	0.020%
107	8.475	961	963	967	VV		1010	19647	0.18%	0.021%
108	8.518	967	969	972	VV	2	910	19604	0.18%	0.021%
109	8.561	972	975	977	VV	2	1110	18704	0.17%	0.020%
110	8.590	977	979	981	VV	2	1599	19440	0.18%	0.021%
111	8.626	981	984	986	VV	2	1158	21597	0.20%	0.023%
112	8.683	986	992	994	VV		1132	31087	0.29%	0.034%
113	8.705	994	995	997	VV		981	12524	0.12%	0.014%
114	8.733	997	999	1006	VV	2	1096	29737	0.28%	0.032%
115	8.812	1006	1010	1012	VV		1075	20840	0.19%	0.023%
116	8.912	1012	1024	1028	VV	3	9736	291220	2.72%	0.315%
117	8.998	1028	1036	1050	VV		104427	3091081	28.89%	3.341%
118	9.106	1050	1051	1057	VV	2	1719	42501	0.40%	0.046%
119	9.185	1057	1062	1065	VV	2	1418	35762	0.33%	0.039%
120	9.220	1065	1067	1070	VV	2	1136	22065	0.21%	0.024%
121	9.256	1070	1072	1074	VV		884	10585	0.10%	0.011%
122	9.299	1074	1078	1080	VV	2	1126	26022	0.24%	0.028%
123	9.328	1080	1082	1090	VV	2	1111	36482	0.34%	0.039%
124	9.399	1090	1092	1096	VV		1195	23767	0.22%	0.026%
125	9.478	1096	1103	1108	VV	2	1004	43883	0.41%	0.047%
126	9.586	1108	1118	1139	VV		175269	5539538	51.77%	5.988%
127	9.750	1139	1141	1146	VV		1751	36987	0.35%	0.040%
128	9.815	1146	1150	1152	VV	2	1746	32556	0.30%	0.035%
129	9.844	1152	1154	1157	VV		1155	19617	0.18%	0.021%
130	9.879	1157	1159	1165	VV	2	1339	35396	0.33%	0.038%
131	9.944	1165	1168	1170	VV	2	1271	25645	0.24%	0.028%
132	9.973	1170	1172	1175	VV	2	1331	24493	0.23%	0.026%
133	10.001	1175	1176	1180	VV	2	1238	20170	0.19%	0.022%
134	10.044	1180	1182	1183	VV		939	11912	0.11%	0.013%
135	10.066	1183	1185	1187	VV		1152	14352	0.13%	0.016%
136	10.094	1187	1189	1192	VV		1462	25465	0.24%	0.028%
137	10.152	1192	1197	1200	VV	2	2202	57021	0.53%	0.062%
138	10.180	1200	1201	1205	VV	2	1308	23145	0.22%	0.025%
139	10.223	1205	1207	1214	VV	3	1187	36551	0.34%	0.040%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.288	1214	1216	1223	VV 2	1168	40853	0.38%	0.044%
141	10.352	1223	1225	1229	VV 2	1108	22419	0.21%	0.024%
142	10.402	1229	1232	1239	VV 2	1103	41568	0.39%	0.045%
143	10.481	1239	1243	1245	VV 2	1109	26144	0.24%	0.028%
144	10.531	1245	1250	1255	VV 2	1395	51235	0.48%	0.055%
145	10.632	1255	1264	1275	VV 4	5165	196547	1.84%	0.212%
146	10.775	1275	1284	1307	VV	223514	6336245	59.22%	6.849%
147	10.954	1307	1309	1312	VV	1945	26985	0.25%	0.029%
148	10.990	1312	1314	1315	VV	1559	18193	0.17%	0.020%
149	11.097	1315	1329	1350	VV	381666	10699556	100.00%	11.565%
150	11.276	1350	1354	1356	VV 2	2075	41646	0.39%	0.045%
151	11.326	1356	1361	1362	VV 2	3391	53367	0.50%	0.058%
152	11.341	1362	1363	1370	VV 4	4002	87549	0.82%	0.095%
153	11.405	1370	1372	1376	VV	1673	36446	0.34%	0.039%
154	11.455	1376	1379	1383	VV 2	1599	44739	0.42%	0.048%
155	11.505	1383	1386	1388	VV 2	1444	23171	0.22%	0.025%
156	11.534	1388	1390	1393	VV	1425	27113	0.25%	0.029%
157	11.570	1393	1395	1398	VV	1468	30968	0.29%	0.033%
158	11.627	1398	1403	1411	VV	1484	69883	0.65%	0.076%
159	11.699	1411	1413	1415	VV	1486	18113	0.17%	0.020%
160	11.749	1415	1420	1424	VV 4	2792	72618	0.68%	0.078%
161	11.835	1424	1432	1452	VV	120080	3400224	31.78%	3.675%
162	12.000	1452	1455	1461	VV 2	1809	61172	0.57%	0.066%
163	12.057	1461	1463	1465	VV	1696	26264	0.25%	0.028%
164	12.086	1465	1467	1469	VV	1651	24121	0.23%	0.026%
165	12.114	1469	1471	1474	VV 2	1703	30406	0.28%	0.033%
166	12.150	1474	1476	1478	VV	1918	33078	0.31%	0.036%
167	12.229	1478	1487	1489	VV 3	2247	86010	0.80%	0.093%
168	12.258	1489	1491	1493	VV	1712	25707	0.24%	0.028%
169	12.293	1493	1496	1498	VV 2	1451	26972	0.25%	0.029%
170	12.322	1498	1500	1502	VV 2	1594	25313	0.24%	0.027%
171	12.365	1502	1506	1511	VV 2	1647	59418	0.56%	0.064%
172	12.415	1511	1513	1518	VV 2	1595	40314	0.38%	0.044%
173	12.465	1518	1520	1523	VV	1898	32223	0.30%	0.035%
174	12.508	1523	1526	1529	VV 2	1578	35525	0.33%	0.038%
175	12.558	1529	1533	1543	VV 2	1603	83640	0.78%	0.090%
176	12.637	1543	1544	1550	VV	1583	45287	0.42%	0.049%
177	12.695	1550	1552	1556	VV	1939	39614	0.37%	0.043%
178	12.737	1556	1558	1560	VV 2	1567	21673	0.20%	0.023%
179	12.780	1560	1564	1566	VV	2295	46698	0.44%	0.050%
180	12.809	1566	1568	1574	VV 3	1923	50888	0.48%	0.055%
181	12.874	1574	1577	1582	VV 2	1807	54493	0.51%	0.059%
182	12.924	1582	1584	1587	VV 2	1656	29035	0.27%	0.031%
183	12.967	1587	1590	1593	VV 2	1544	40764	0.38%	0.044%
184	13.003	1593	1595	1596	VV 2	1583	19119	0.18%	0.021%
185	13.024	1596	1598	1605	VV 2	1930	61043	0.57%	0.066%
186	13.167	1605	1618	1635	VV 2	133711	5404738	50.51%	5.842%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.296	1635	1636	1639	VV		2830	40653	0.38%	0.044%
188	13.375	1639	1647	1650	VV	3	2556	96738	0.90%	0.105%
189	13.418	1650	1653	1657	VV		2313	53467	0.50%	0.058%
190	13.461	1657	1659	1662	VV		2266	37253	0.35%	0.040%
191	13.568	1662	1674	1687	VV	2	135051	3882246	36.28%	4.196%
192	13.690	1687	1691	1697	VV	3	3379	110332	1.03%	0.119%
193	13.762	1697	1701	1703	VV	2	1918	39682	0.37%	0.043%
194	13.783	1703	1704	1706	VV		1729	23890	0.22%	0.026%
195	13.812	1706	1708	1710	VV		1830	26335	0.25%	0.028%
196	13.841	1710	1712	1714	VV	2	1718	25587	0.24%	0.028%
197	13.869	1714	1716	1717	VV		2046	26917	0.25%	0.029%
198	13.891	1717	1719	1721	VV	2	2023	25812	0.24%	0.028%
199	13.927	1721	1724	1725	VV	3	2763	42567	0.40%	0.046%
200	13.948	1725	1727	1735	VV	4	3475	93669	0.88%	0.101%
201	14.020	1735	1737	1739	VV		1780	25567	0.24%	0.028%
202	14.055	1739	1742	1745	VV	2	1807	39038	0.36%	0.042%
203	14.098	1745	1748	1754	VV	2	1817	66106	0.62%	0.071%
204	14.177	1754	1759	1765	VV	2	1946	76338	0.71%	0.083%
205	14.235	1765	1767	1776	VV	2	1842	78242	0.73%	0.085%
206	14.313	1776	1778	1780	VV		1878	25121	0.23%	0.027%
207	14.335	1780	1781	1783	VV		1768	27079	0.25%	0.029%
208	14.363	1783	1785	1800	VV	2	1705	117833	1.10%	0.127%
209	14.492	1800	1803	1810	VV		1929	74350	0.69%	0.080%
210	14.557	1810	1812	1815	VV	2	1928	34940	0.33%	0.038%
211	14.586	1815	1816	1819	VV		2157	29859	0.28%	0.032%
212	14.650	1819	1825	1829	VV	2	2714	93654	0.88%	0.101%
213	14.686	1829	1830	1832	VV	2	2063	26550	0.25%	0.029%
214	14.714	1832	1834	1837	VV	2	1887	36339	0.34%	0.039%
215	14.750	1837	1839	1841	VV	2	2359	32472	0.30%	0.035%
216	14.772	1841	1842	1844	VV	2	2239	29502	0.28%	0.032%
217	14.800	1844	1846	1850	VV	2	1944	44686	0.42%	0.048%
218	14.858	1850	1854	1859	VV	2	2000	68839	0.64%	0.074%
219	14.908	1859	1861	1863	VV		2091	36537	0.34%	0.039%
220	14.944	1863	1866	1868	VV		1850	33896	0.32%	0.037%
221	14.987	1868	1872	1874	VV	2	2167	44633	0.42%	0.048%
222	15.015	1874	1876	1878	VV		2020	32102	0.30%	0.035%
223	15.037	1878	1879	1881	VV		1894	24594	0.23%	0.027%
224	15.080	1881	1885	1888	VV		2129	55476	0.52%	0.060%
225	15.116	1888	1890	1892	VV		2234	31147	0.29%	0.034%
226	15.137	1892	1893	1895	VV		2013	25800	0.24%	0.028%
227	15.209	1895	1903	1909	VV	2	2875	125667	1.17%	0.136%
228	15.273	1909	1912	1914	VV	2	2028	36060	0.34%	0.039%
229	15.295	1914	1915	1919	VV		2281	41082	0.38%	0.044%
230	15.345	1919	1922	1925	VV	2	2464	61561	0.58%	0.067%
231	15.381	1925	1927	1930	VV		2184	37985	0.36%	0.041%
232	15.424	1930	1933	1935	VV		1844	34383	0.32%	0.037%
233	15.459	1935	1938	1943	VV	2	2001	66543	0.62%	0.072%
234	15.531	1943	1948	1950	VV		1973	51210	0.48%	0.055%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.553	1950	1951	1954	VV		1891	29467	0.28%	0.032%
236	15.603	1954	1958	1963	VV		1863	68789	0.64%	0.074%
237	15.667	1963	1967	1979	VV	2	2254	136837	1.28%	0.148%
238	15.846	1979	1992	1994	VV	2	2124	123059	1.15%	0.133%
239	15.882	1994	1997	1999	VV		1965	35434	0.33%	0.038%
240	15.911	1999	2001	2002	VV		1994	26790	0.25%	0.029%
241	15.932	2002	2004	2011	VV	2	2079	72180	0.67%	0.078%
242	16.047	2011	2020	2030	VV	2	71608	2051298	19.17%	2.217%
243	16.133	2030	2032	2034	VV		2319	29831	0.28%	0.032%
244	16.161	2034	2036	2043	VV	2	2206	76399	0.71%	0.083%
245	16.233	2043	2046	2051	VV	2	2220	66859	0.62%	0.072%
246	16.276	2051	2052	2056	VV	2	2090	49528	0.46%	0.054%
247	16.319	2056	2058	2060	VV		2122	25583	0.24%	0.028%
248	16.348	2060	2062	2064	VV		2144	37134	0.35%	0.040%
249	16.405	2064	2070	2083	VV	2	2677	162332	1.52%	0.175%
250	16.512	2083	2085	2087	VV	2	2071	27925	0.26%	0.030%
251	16.555	2087	2091	2093	VV	2	2272	55611	0.52%	0.060%
252	16.584	2093	2095	2097	VV		1970	26473	0.25%	0.029%
253	16.613	2097	2099	2104	VV	2	2280	67329	0.63%	0.073%
254	16.663	2104	2106	2108	VV	2	2149	30064	0.28%	0.032%
255	16.691	2108	2110	2115	VV	2	2466	67620	0.63%	0.073%
256	16.756	2115	2119	2127	VV	2	2254	102558	0.96%	0.111%
257	16.863	2127	2134	2136	VV		2324	78620	0.73%	0.085%
258	16.885	2136	2137	2140	VV		2244	34593	0.32%	0.037%
259	16.928	2140	2143	2148	VV		2182	67015	0.63%	0.072%
260	17.007	2148	2154	2156	VV	2	2265	69572	0.65%	0.075%
261	17.050	2156	2160	2168	VV	2	2272	108435	1.01%	0.117%
262	17.128	2168	2171	2176	VV	2	2345	68626	0.64%	0.074%
263	17.179	2176	2178	2188	VV	2	2194	104575	0.98%	0.113%
264	17.265	2188	2190	2191	VV		2299	34077	0.32%	0.037%
265	17.286	2191	2193	2200	VV	2	2284	83222	0.78%	0.090%
266	17.372	2200	2205	2210	VV	2	2273	83717	0.78%	0.090%
267	17.422	2210	2212	2213	VV		2202	30669	0.29%	0.033%
268	17.444	2213	2215	2218	VV	2	2425	49444	0.46%	0.053%
269	17.501	2218	2223	2231	VV	3	3157	130617	1.22%	0.141%
270	17.651	2231	2244	2255	VV	2	86907	2411311	22.54%	2.606%
271	17.737	2255	2256	2259	VV		2498	41357	0.39%	0.045%
272	17.773	2259	2261	2268	VV	2	2441	82809	0.77%	0.090%
273	17.838	2268	2270	2272	VV	2	2338	38879	0.36%	0.042%
274	17.873	2272	2275	2277	VV	2	2524	41230	0.39%	0.045%
275	17.924	2277	2282	2285	VV	2	2604	77492	0.72%	0.084%
276	17.952	2285	2286	2294	VV		2605	91095	0.85%	0.098%
277	18.024	2294	2296	2301	VV	2	2318	59812	0.56%	0.065%
278	18.067	2301	2302	2305	VV		2586	41985	0.39%	0.045%
279	18.103	2305	2307	2314	VV	2	2359	90307	0.84%	0.098%
280	18.167	2314	2316	2318	VV		2506	35267	0.33%	0.038%
281	18.210	2318	2322	2324	VV		2610	62423	0.58%	0.067%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.239	2324	2326	2328	VV		2640	38773	0.36%	0.042%
283	18.267	2328	2330	2332	VV	2	2577	42823	0.40%	0.046%
284	18.296	2332	2334	2338	VV		2693	64174	0.60%	0.069%
285	18.418	2338	2351	2361	VV		218689	5834428	54.53%	6.306%
286	18.504	2361	2363	2370	VV	2	2769	90007	0.84%	0.097%
287	18.575	2370	2373	2379	VV	2	2634	88582	0.83%	0.096%
288	18.633	2379	2381	2383	VV		2424	38412	0.36%	0.042%
289	18.668	2383	2386	2390	VV	2	2698	83739	0.78%	0.091%
290	18.711	2390	2392	2396	VV	2	2593	61813	0.58%	0.067%
291	18.762	2396	2399	2402	VV	2	2338	54351	0.51%	0.059%
292	18.812	2402	2406	2408	VV	2	2454	60359	0.56%	0.065%
293	18.848	2408	2411	2420	VV	2	2594	114645	1.07%	0.124%
294	18.941	2420	2424	2426	VV	2	2556	60155	0.56%	0.065%
295	18.962	2426	2427	2429	VV		2384	37091	0.35%	0.040%
296	19.005	2429	2433	2441	VV		2484	119848	1.12%	0.130%
297	19.077	2441	2443	2447	VV		2525	54756	0.51%	0.059%
298	19.170	2447	2456	2457	VV	2	2846	110957	1.04%	0.120%
299	19.199	2457	2460	2464	VV	2	2590	67408	0.63%	0.073%
300	19.242	2464	2466	2474	VV	2	2761	114749	1.07%	0.124%
301	19.313	2474	2476	2480	VV	2	2453	53231	0.50%	0.058%
302	19.349	2480	2481	2485	VV	2	2651	60999	0.57%	0.066%
303	19.392	2485	2487	2489	VV		2649	33370	0.31%	0.036%
304	19.421	2489	2491	2493	VV	2	2705	46428	0.43%	0.050%
305	19.478	2493	2499	2504	VV	2	2748	117773	1.10%	0.127%
306	19.521	2504	2505	2507	VV		2620	35649	0.33%	0.039%
307	19.550	2507	2509	2513	VV		2935	65287	0.61%	0.071%
308	19.593	2513	2515	2517	VV	2	2807	43113	0.40%	0.047%
309	19.628	2517	2520	2526	VV	2	2515	94014	0.88%	0.102%
310	19.686	2526	2528	2531	VV	2	2535	52581	0.49%	0.057%
311	19.721	2531	2533	2535	VV		2634	36999	0.35%	0.040%
312	19.757	2535	2538	2546	VV	2	2797	123923	1.16%	0.134%
313	19.829	2546	2548	2554	VV	2	2567	79630	0.74%	0.086%
314	19.879	2554	2555	2557	VV		2653	38979	0.36%	0.042%
315	19.936	2557	2563	2565	VV	2	2678	89917	0.84%	0.097%
316	19.965	2565	2567	2571	VV	2	2845	64862	0.61%	0.070%
317	20.029	2571	2576	2581	VV	2	2815	115672	1.08%	0.125%
318	20.080	2581	2583	2586	VV	2	2677	50064	0.47%	0.054%
319	20.115	2586	2588	2597	VV	2	2827	123098	1.15%	0.133%
320	20.187	2597	2598	2601	VV	2	2663	49570	0.46%	0.054%
321	20.223	2601	2603	2606	VV		2776	52131	0.49%	0.056%
322	20.252	2606	2607	2615	VV	2	2657	109465	1.02%	0.118%
323	20.323	2615	2617	2622	VV	2	2806	79985	0.75%	0.086%
324	20.380	2622	2625	2638	VV		3022	179837	1.68%	0.194%
325	20.545	2646	2648	2654	VV	2	2861	84458	0.79%	0.091%
326	20.595	2654	2655	2657	VV		2767	38162	0.36%	0.041%
327	20.624	2657	2659	2664	VV	2	2876	74632	0.70%	0.081%
328	20.674	2664	2666	2674	VV	2	2857	116565	1.09%	0.126%
329	20.753	2674	2677	2681	VV	2	2789	80076	0.75%	0.087%

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Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.796	2681	2683	2685	VV	2773	48187	0.45%	0.052%
331	20.839	2685	2689	2692	VV 2	2761	67415	0.63%	0.073%
332	20.868	2692	2693	2699	VV	2589	90902	0.85%	0.098%
333	20.925	2699	2701	2705	VV 2	2903	68511	0.64%	0.074%
334	20.975	2705	2708	2717	VV 2	3026	138827	1.30%	0.150%
335	21.047	2717	2718	2721	VV	2998	50832	0.48%	0.055%
336	21.133	2721	2730	2746	VV 2	2948	288191	2.69%	0.311%
337	21.283	2746	2751	2762	VV 2	2999	187129	1.75%	0.202%
338	21.376	2762	2764	2776	VV 2	3076	171955	1.61%	0.186%
339	21.491	2776	2780	2784	VV 2	3000	96000	0.90%	0.104%
340	21.555	2784	2789	2794	VV 2	3059	107802	1.01%	0.117%
341	21.713	2794	2811	2815	VV 2	3179	257487	2.41%	0.278%
342	21.813	2815	2825	2833	VV 2	3150	219031	2.05%	0.237%
343	21.899	2833	2837	2841	VV	3437	102493	0.96%	0.111%
344	21.949	2841	2844	2854	VV 2	3066	168471	1.57%	0.182%
345	22.035	2854	2856	2862	VV	3094	91695	0.86%	0.099%
346	22.135	2862	2870	2876	VV 2	2999	169618	1.59%	0.183%
347	22.193	2876	2878	2884	VV 2	3030	93881	0.88%	0.101%
348	22.264	2884	2888	2904	VV	3247	253702	2.37%	0.274%
349	22.436	2904	2912	2916	VV	3292	153511	1.43%	0.166%
350	22.494	2916	2920	2926	VV 2	3410	129366	1.21%	0.140%
351	22.608	2926	2936	2940	VV 2	3173	182591	1.71%	0.197%
352	22.651	2940	2942	2955	VV 2	3119	189959	1.78%	0.205%
353	22.773	2955	2959	2962	VV	3395	95332	0.89%	0.103%
354	22.873	2962	2973	2980	VV 2	3241	234718	2.19%	0.254%
355	22.952	2980	2984	2985	VBA	3295	62377	0.58%	0.067%

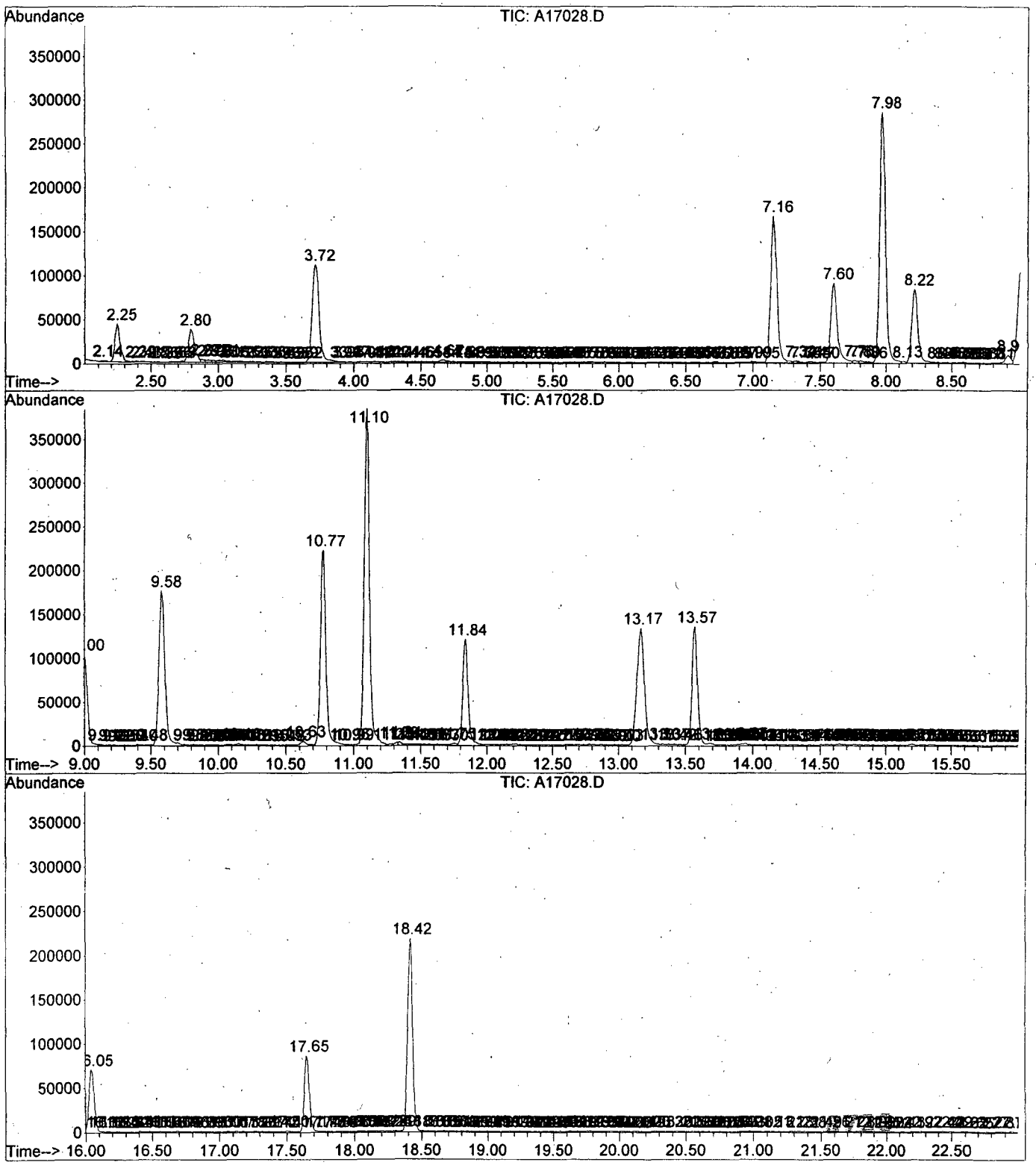
Sum of corrected areas: 92517772

0737

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

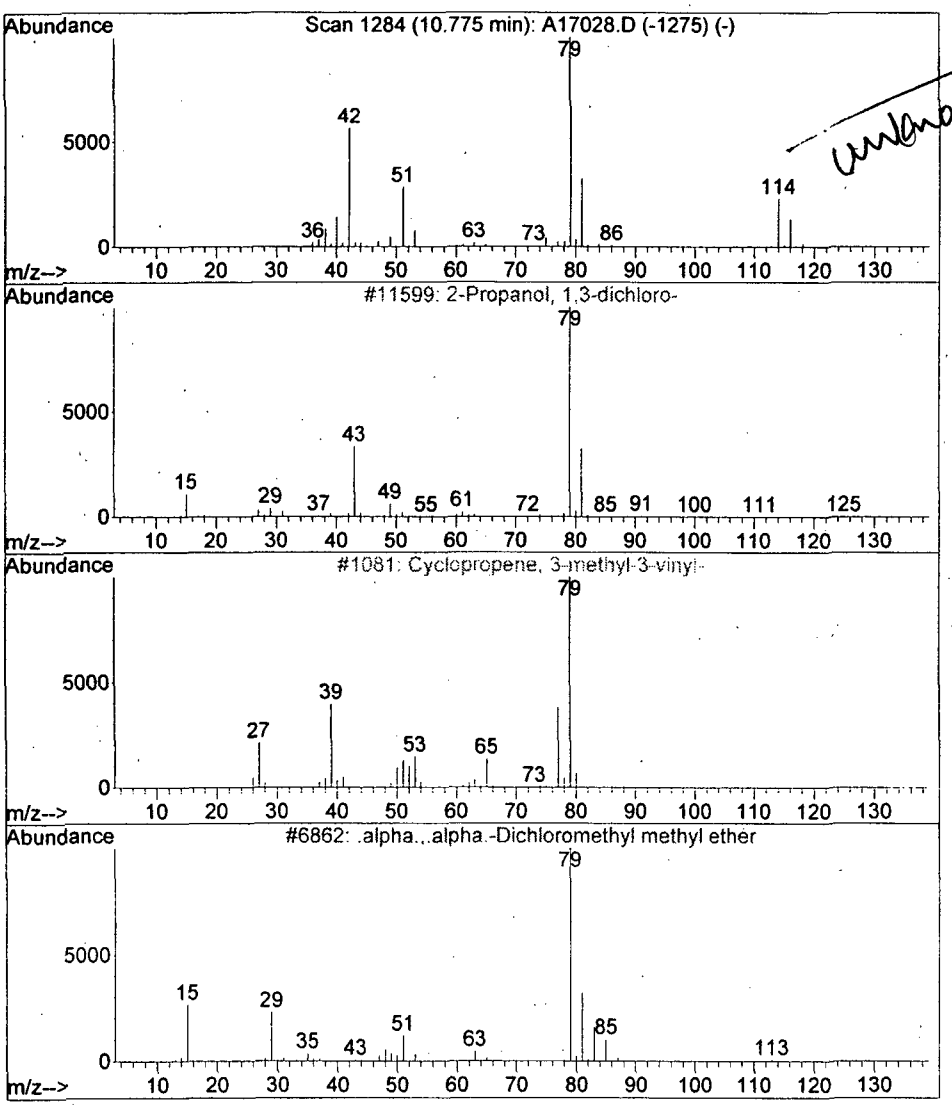
11/28/08

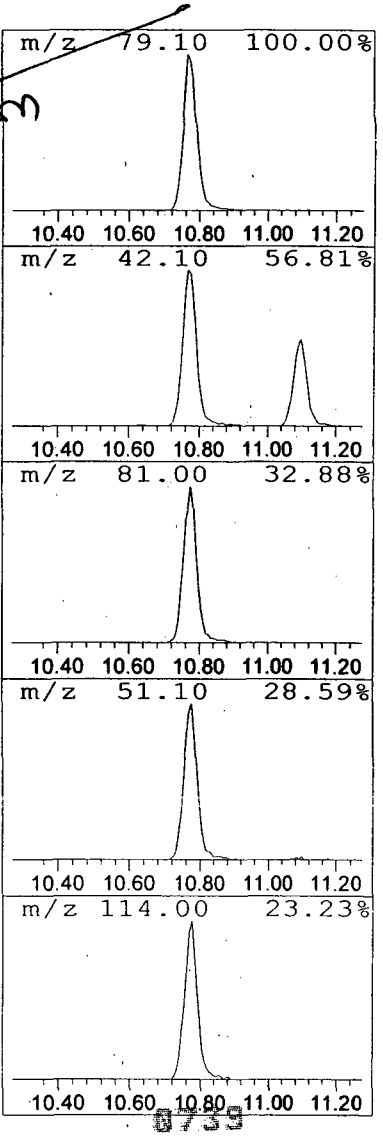
****

Peak Number 1 2-Propanol, 1,3-dichloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	10.25 ug/L	6336250	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
2	Cyclopropene, 3-methyl-3-vinyl-	80	C6H8	071153-30-5	9
3	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	9
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	9
5	1,4-Cyclohexadiene	80	C6H8	000628-41-1	9





0739

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

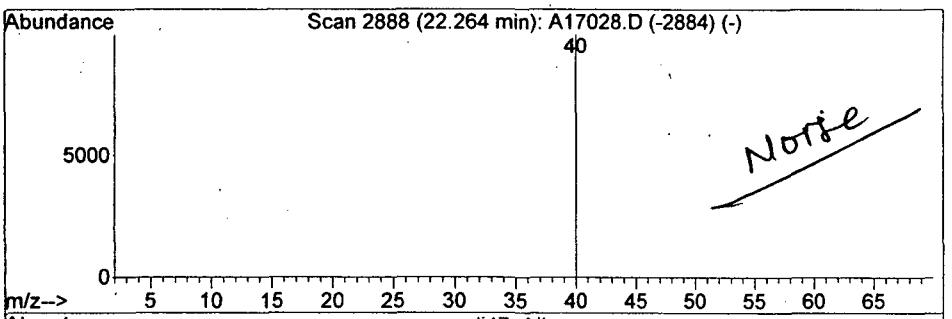
11/28/08

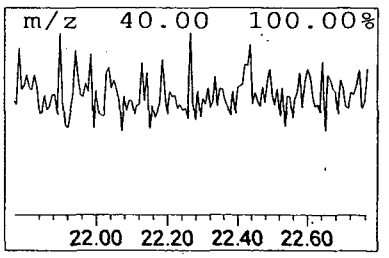
****

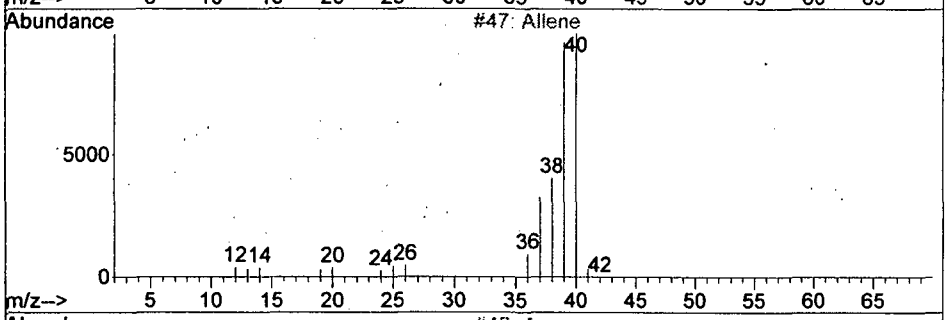
Peak Number 2 Allene Concentration Rank 2

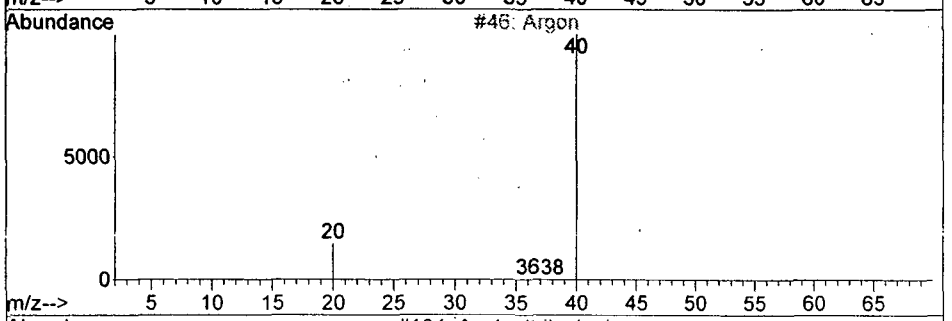
R.T.	EstConc	Area	Relative to ISTD	R.T.
22.27	0.53 ug/L	253702	1,4-Dichlorobenzene-d4	17.65

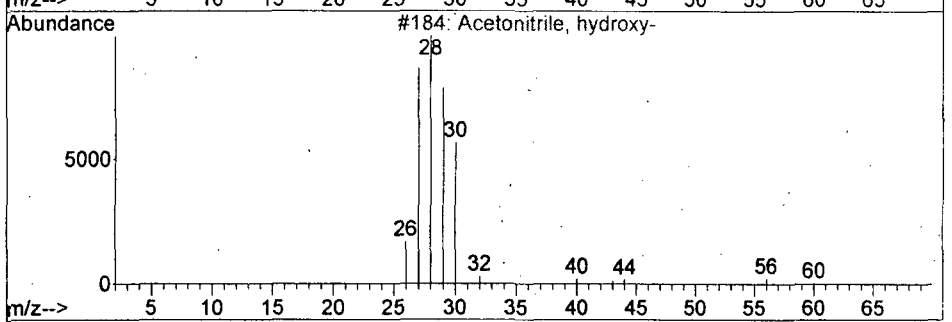
Hit# of 3	Tentative ID	MW	MolForm	CAS#	Qual
1	Allene	40	C3H4	000463-49-0	2
2	Argon	40	Ar	007440-37-1	2
3	Acetonitrile, hydroxy-	57	C2H3NO	000107-16-4	1











0740

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17028.D
Acq On : 11/26/08 18:46 Operator: SB
Sample : VBLK25 Inst : A-5973
Misc : VBLK25 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Propanol, 1,3-d...	10.77	10.2	ug/L	6336250	1	9.00	3091080	5.0
Allene	22.27	0.5	ug/L	253702	3	17.65	2411310	5.0

0741

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK27

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17045

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK27

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17045

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK27

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17045

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	10	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17045.D
Acq On : 11/27/08 07:50
Sample : VBLK27
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 38051 SDG: F2XEA
Episode: 8-2066 Init/date: 12/1/28/08

Quant Time: Nov 28 11:46:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1276693	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1184124	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	379596	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	767509	4.61	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 92.20%			
7) Chloroethane-d5	2.80	69	518464	5.27	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 105.40%			
10) 1,1-Dichloroethene-d2	3.72	63	1589928	3.88	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 77.60%			
21) 2-Butanone-d5	7.60	46	1558878	52.12	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 104.24%			
24) Chloroform-d	7.16	84	2082420	4.61	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 92.20%			
26) 1,2-Dichloroethane-d4	8.22	65	957511	5.31	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 106.20%			
32) Benzene-d6	7.97	84	4036712	4.62	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 92.40%			
36) 1,2-Dichloropropane-d6	9.58	67	1206141	4.65	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 93.00%			
41) Toluene-d8	11.10	98	4027451	5.03	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.60%			
43) trans-1,3-Dichloropropene-	11.84	79	957679	4.23	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 84.60%			
47) 2-Hexanone-d5	13.15	63	708388	54.27	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 108.54%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	579954	4.70	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 94.00%			
63) 1,2-Dichlorobenzene-d4	18.42	152	985640	5.71	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 114.20%			

Target Compounds	Qvalue

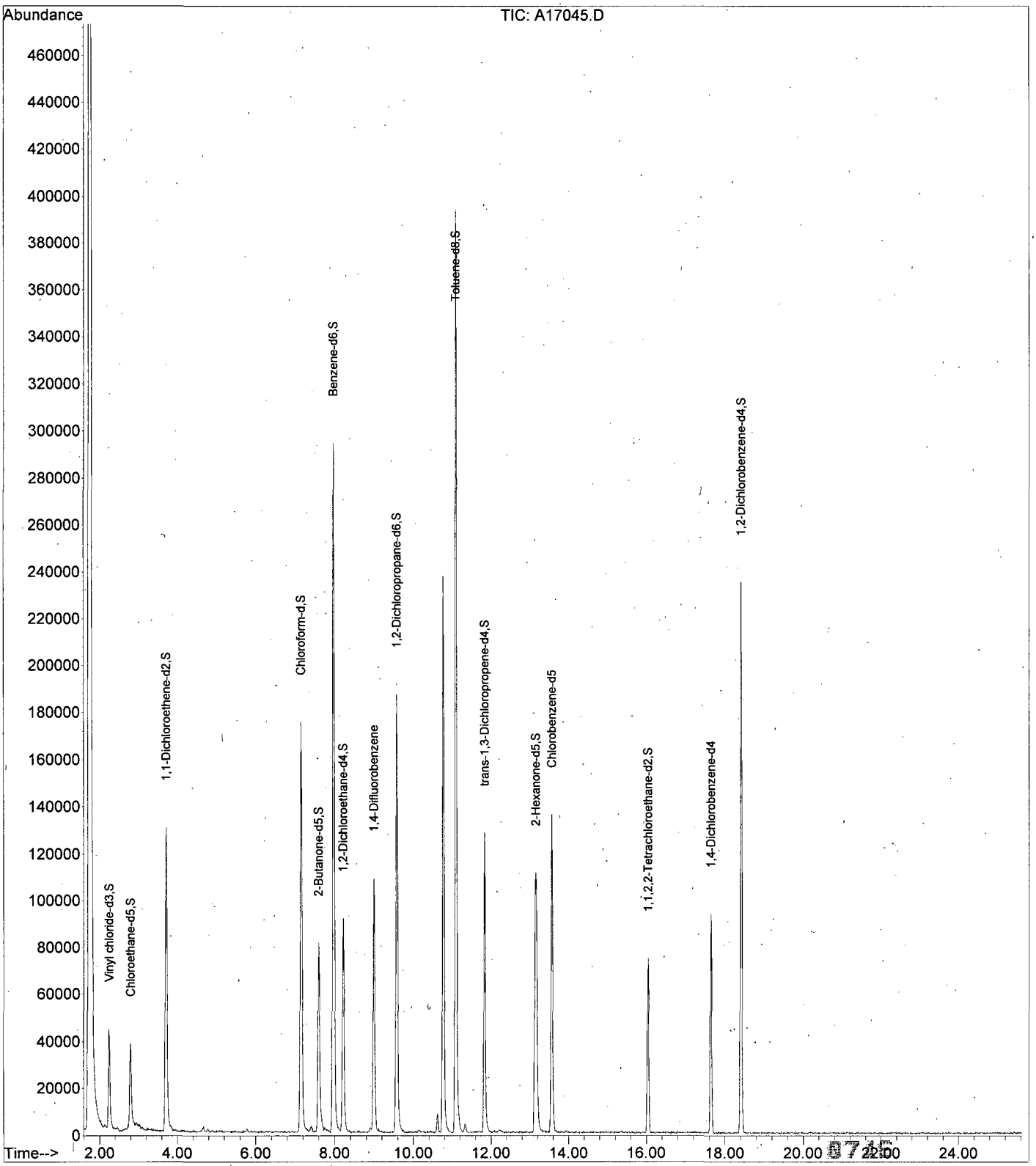
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0745

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 11:46:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.057	62	67	69	BV	352	2086	0.02%	0.002%
2	2.136	69	78	82	PV 3	1111	21391	0.19%	0.021%
3	2.172	82	83	85	VV 2	424	4005	0.04%	0.004%
4	2.244	85	93	108	VV	42174	1254651	11.27%	1.206%
5	2.365	108	110	112	VV 2	1072	15312	0.14%	0.015%
6	2.387	112	113	115	VV	695	10105	0.09%	0.010%
7	2.415	115	117	120	VV 2	1124	16083	0.14%	0.015%
8	2.458	120	123	131	VV 3	1613	41678	0.37%	0.040%
9	2.530	131	133	135	PV 2	526	5713	0.05%	0.005%
10	2.552	135	136	138	VV	547	5381	0.05%	0.005%
11	2.623	138	146	147	VV 2	1016	24546	0.22%	0.024%
12	2.673	147	153	158	VV 3	1517	52606	0.47%	0.051%
13	2.802	158	171	188	VV	37461	1411559	12.68%	1.357%
14	2.953	188	192	196	VV 3	4020	106756	0.96%	0.103%
15	2.996	196	198	208	VV 3	3073	132435	1.19%	0.127%
16	3.082	208	210	211	VV 2	2020	26621	0.24%	0.026%
17	3.110	211	214	218	VV 2	1909	43766	0.39%	0.042%
18	3.146	218	219	228	VV 3	1225	43064	0.39%	0.041%
19	3.232	228	231	233	VV 2	1860	25398	0.23%	0.024%
20	3.268	233	236	238	VV 3	1510	23316	0.21%	0.022%
21	3.332	238	245	248	VV 2	1521	43589	0.39%	0.042%
22	3.382	248	252	254	VV 2	1348	21937	0.20%	0.021%
23	3.411	254	256	264	VV 2	910	32217	0.29%	0.031%
24	3.483	264	266	269	VV 2	1056	15719	0.14%	0.015%
25	3.526	269	272	278	VV 3	823	25316	0.23%	0.024%
26	3.590	278	281	285	VV 2	1021	20220	0.18%	0.019%
27	3.633	285	287	289	VV 2	850	11381	0.10%	0.011%
28	3.719	289	299	313	VV 2	128963	4330470	38.91%	4.162%
29	3.834	313	315	322	VV 4	2919	77597	0.70%	0.075%
30	3.898	322	324	329	VV 2	1247	28100	0.25%	0.027%
31	3.948	329	331	334	VV 2	1297	19940	0.18%	0.019%
32	3.984	334	336	344	VV 2	980	28746	0.26%	0.028%
33	4.056	344	346	349	VV	747	11242	0.10%	0.011%
34	4.106	349	353	356	VV 2	1044	21060	0.19%	0.020%
35	4.163	356	361	371	VV 2	1138	49857	0.45%	0.048%
36	4.249	371	373	375	VV 2	1024	14162	0.13%	0.014%
37	4.278	375	377	379	VV	737	9633	0.09%	0.009%
38	4.307	379	381	384	VV	873	13022	0.12%	0.013%
39	4.342	384	386	390	VV 2	890	12164	0.11%	0.012%
40	4.414	390	396	398	VV	1237	25732	0.23%	0.025%
41	4.443	398	400	402	VV	1042	13469	0.12%	0.013%
42	4.471	402	404	415	VV 2	757	31477	0.28%	0.030%
43	4.607	415	423	425	VV 2	1018	32321	0.29%	0.031%
44	4.672	425	432	440	VV 4	2802	97255	0.87%	0.093%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.743	440	442	444	VV	1108	13555	0.12%	0.013%
46	4.786	444	448	451	VV 2	1782	40070	0.36%	0.039%
47	4.815	451	452	458	VV 3	1178	24727	0.22%	0.024%
48	4.872	458	460	462	VV	958	12501	0.11%	0.012%
49	4.901	462	464	471	VV 2	1339	32524	0.29%	0.031%
50	4.966	471	473	478	VV	814	22255	0.20%	0.021%
51	5.016	478	480	485	VV	1110	23422	0.21%	0.023%
52	5.080	485	489	494	VV 2	1154	33038	0.30%	0.032%
53	5.130	494	496	499	VV	1263	16045	0.14%	0.015%
54	5.159	499	500	508	VV	997	26273	0.24%	0.025%
55	5.231	508	510	513	VV	904	16948	0.15%	0.016%
56	5.266	513	515	516	VV 2	840	10610	0.10%	0.010%
57	5.302	516	520	523	VV 2	931	24209	0.22%	0.023%
58	5.352	523	527	533	VV 2	894	30274	0.27%	0.029%
59	5.410	533	535	538	VV 2	1114	15325	0.14%	0.015%
60	5.460	538	542	550	VV 2	1098	41790	0.38%	0.040%
61	5.524	550	551	557	VV 2	804	21943	0.20%	0.021%
62	5.582	557	559	565	VV 2	785	23911	0.21%	0.023%
63	5.646	565	568	572	VV 2	776	19333	0.17%	0.019%
64	5.689	572	574	576	VV	1343	14959	0.13%	0.014%
65	5.718	576	578	579	VV 2	950	11168	0.10%	0.011%
66	5.782	579	587	597	VV 3	2158	93460	0.84%	0.090%
67	5.868	597	599	601	VV 2	950	13966	0.13%	0.013%
68	5.897	601	603	608	VV 2	1217	28303	0.25%	0.027%
69	5.947	608	610	613	VV 2	1030	15888	0.14%	0.015%
70	5.983	613	615	624	VV	1264	42001	0.38%	0.040%
71	6.090	624	630	637	VV 2	1105	44631	0.40%	0.043%
72	6.183	637	643	646	VV 2	1082	32135	0.29%	0.031%
73	6.298	646	659	661	VV 2	1111	55220	0.50%	0.053%
74	6.341	661	665	670	VV 2	1174	38849	0.35%	0.037%
75	6.391	670	672	676	VV 2	1069	20202	0.18%	0.019%
76	6.434	676	678	679	VV	1042	12679	0.11%	0.012%
77	6.484	679	685	687	VV 2	1287	31286	0.28%	0.030%
78	6.506	687	688	697	VV 2	1165	43713	0.39%	0.042%
79	6.584	697	699	705	VV 2	1099	30552	0.27%	0.029%
80	6.649	705	708	716	VV 2	1327	45301	0.41%	0.044%
81	6.720	716	718	720	VV 2	1270	17429	0.16%	0.017%
82	6.749	720	722	724	VV	1405	16840	0.15%	0.016%
83	6.771	724	725	727	VV 2	1015	11911	0.11%	0.011%
84	6.799	727	729	730	VV	935	10077	0.09%	0.010%
85	6.828	730	733	738	VV 2	1065	33989	0.31%	0.033%
86	6.921	738	746	751	VV	1358	54510	0.49%	0.052%
87	6.964	751	752	754	VV	1150	13454	0.12%	0.013%
88	6.993	754	756	758	VV 2	1206	18312	0.16%	0.018%
89	7.014	758	759	762	VV	1196	18823	0.17%	0.018%
90	7.157	762	779	797	VV	172601	5707226	51.28%	5.486%
91	7.293	797	798	805	VV 3	2627	67225	0.60%	0.064%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.415	805	815	822	VV	6	3680	155165	1.39%	0.149%
93	7.473	822	823	826	VV	2	1355	26876	0.24%	0.026%
94	7.516	826	829	831	VV		1499	26522	0.24%	0.025%
95	7.601	831	841	859	VV		80318	2796025	25.12%	2.687%
96	7.759	859	863	867	VV	4	2897	89207	0.80%	0.086%
97	7.795	867	868	877	VV	3	2203	75665	0.68%	0.073%
98	7.874	877	879	882	VV	2	1616	29725	0.27%	0.029%
99	7.974	882	893	918	VV		292367	9169898	82.39%	8.814%
100	8.218	918	927	947	VV	2	90581	2923346	26.26%	2.810%
101	8.368	947	948	957	VV	2	1845	60830	0.55%	0.058%
102	8.483	957	964	976	VV	2	1621	103535	0.93%	0.100%
103	8.619	976	983	988	VV	3	1879	75716	0.68%	0.073%
104	8.690	988	993	994	VV	2	1531	34402	0.31%	0.033%
105	8.719	994	997	999	VV		1502	24856	0.22%	0.024%
106	8.762	999	1003	1010	VV	2	1516	60098	0.54%	0.058%
107	8.819	1010	1011	1013	VV	2	1423	17757	0.16%	0.017%
108	8.912	1013	1024	1027	VV	3	3259	130878	1.18%	0.126%
109	8.998	1027	1036	1052	VV	2	108935	3236623	29.08%	3.111%
110	9.120	1052	1053	1060	VV		2793	73024	0.66%	0.070%
111	9.199	1060	1064	1068	VV	2	1861	50207	0.45%	0.048%
112	9.235	1068	1069	1076	VV		1519	46786	0.42%	0.045%
113	9.292	1076	1077	1080	VV		1389	20298	0.18%	0.020%
114	9.321	1080	1081	1083	VV		1392	18258	0.16%	0.018%
115	9.364	1083	1087	1089	VV	2	1624	34991	0.31%	0.034%
116	9.392	1089	1091	1093	VV	2	1460	24394	0.22%	0.023%
117	9.428	1093	1096	1098	VV	2	1634	27250	0.24%	0.026%
118	9.493	1098	1105	1107	VV	2	1727	57181	0.51%	0.055%
119	9.586	1107	1118	1137	VV	2	184838	5888734	52.91%	5.660%
120	9.736	1137	1139	1151	VV	2	2481	106571	0.96%	0.102%
121	9.872	1151	1158	1161	VV	2	1897	62299	0.56%	0.060%
122	9.908	1161	1163	1165	VV		2001	30721	0.28%	0.030%
123	9.937	1165	1167	1169	VV		1616	24146	0.22%	0.023%
124	9.965	1169	1171	1173	VV	2	1832	31242	0.28%	0.030%
125	9.994	1173	1175	1178	VV	2	1785	29237	0.26%	0.028%
126	10.051	1178	1183	1186	VV	2	2077	55276	0.50%	0.053%
127	10.144	1186	1196	1203	VV	4	2713	147431	1.32%	0.142%
128	10.266	1203	1213	1220	VV	2	1968	123243	1.11%	0.118%
129	10.352	1220	1225	1227	VV		1888	52241	0.47%	0.050%
130	10.374	1227	1228	1234	VV		1946	51171	0.46%	0.049%
131	10.452	1234	1239	1240	VV	2	2309	47104	0.42%	0.045%
132	10.474	1240	1242	1250	VV	2	2048	71422	0.64%	0.069%
133	10.567	1250	1255	1257	VV		1874	47165	0.42%	0.045%
134	10.624	1257	1263	1274	VV	5	9498	319008	2.87%	0.307%
135	10.775	1274	1284	1305	VV		236893	6727298	60.44%	6.466%
136	10.939	1305	1307	1314	VV		2166	71840	0.65%	0.069%
137	10.997	1314	1315	1318	VV		1815	33756	0.30%	0.032%
138	11.097	1318	1329	1352	VV		395819	11130418	100.00%	10.698%
139	11.276	1352	1354	1355	VV	2	2448	32398	0.29%	0.031%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	11.333	1355	1362	1374	VV 5	5346	252786	2.27%	0.243%
141	11.441	1374	1377	1378	VV	1865	30015	0.27%	0.029%
142	11.470	1378	1381	1385	VV 2	2092	55708	0.50%	0.054%
143	11.563	1385	1394	1403	VV 2	2219	153275	1.38%	0.147%
144	11.634	1403	1404	1406	VV 2	2256	29484	0.26%	0.028%
145	11.692	1406	1412	1415	VV 3	2450	82434	0.74%	0.079%
146	11.756	1415	1421	1423	VV 2	2428	74629	0.67%	0.072%
147	11.835	1423	1432	1450	VV	129242	3630678	32.62%	3.490%
148	11.971	1450	1451	1456	VV 3	2623	61450	0.55%	0.059%
149	12.021	1456	1458	1460	VV	2202	33040	0.30%	0.032%
150	12.050	1460	1462	1464	VV 2	2389	44158	0.40%	0.042%
151	12.093	1464	1468	1475	VV 3	2753	100579	0.90%	0.097%
152	12.214	1475	1485	1497	VV 3	3209	246443	2.21%	0.237%
153	12.322	1497	1500	1505	VV 3	2295	67728	0.61%	0.065%
154	12.372	1505	1507	1510	VV	2360	50373	0.45%	0.048%
155	12.408	1510	1512	1517	VV 2	2385	65574	0.59%	0.063%
156	12.458	1517	1519	1522	VV	2223	40437	0.36%	0.039%
157	12.494	1522	1524	1526	VV	2445	38449	0.35%	0.037%
158	12.573	1526	1535	1544	VV 2	2406	173465	1.56%	0.167%
159	12.687	1544	1551	1553	VV	2399	78712	0.71%	0.076%
160	12.716	1553	1555	1556	VV 2	2183	29731	0.27%	0.029%
161	12.737	1556	1558	1560	VV	2555	37106	0.33%	0.036%
162	12.780	1560	1564	1569	VV 2	2640	88862	0.80%	0.085%
163	12.831	1569	1571	1574	VV 2	2423	41680	0.37%	0.040%
164	12.866	1574	1576	1581	VV	2492	64976	0.58%	0.062%
165	12.916	1581	1583	1590	VV 2	2623	90825	0.82%	0.087%
166	13.024	1590	1598	1602	VV 2	2488	109862	0.99%	0.106%
167	13.060	1602	1603	1605	VV	2557	31950	0.29%	0.031%
168	13.153	1605	1616	1636	VV 3	112685	5138836	46.17%	4.939%
169	13.318	1636	1639	1643	VV	3358	83885	0.75%	0.081%
170	13.361	1643	1645	1650	VV 3	3050	90295	0.81%	0.087%
171	13.411	1650	1652	1657	VV	2875	79693	0.72%	0.077%
172	13.461	1657	1659	1665	VV 2	2520	82540	0.74%	0.079%
173	13.568	1665	1674	1686	VV	138218	4035559	36.26%	3.879%
174	13.661	1686	1687	1694	VV 2	3284	94191	0.85%	0.091%
175	13.740	1694	1698	1700	VV 2	2786	70390	0.63%	0.068%
176	13.769	1700	1702	1705	VV 2	2549	50642	0.45%	0.049%
177	13.805	1705	1707	1717	VV 2	2992	129632	1.16%	0.125%
178	13.934	1717	1725	1728	VV 3	3233	127742	1.15%	0.123%
179	13.969	1728	1730	1732	VV 2	2546	35407	0.32%	0.034%
180	13.998	1732	1734	1742	VV	2840	110413	0.99%	0.106%
181	14.070	1742	1744	1753	VV 2	2556	115384	1.04%	0.111%
182	14.149	1753	1755	1759	VV 2	2477	56161	0.50%	0.054%
183	14.192	1759	1761	1766	VV 2	2907	77816	0.70%	0.075%
184	14.249	1766	1769	1771	VV	2476	50988	0.46%	0.049%
185	14.270	1771	1772	1780	VV	2702	93135	0.84%	0.090%
186	14.342	1780	1782	1785	VV	2528	45876	0.41%	0.044%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	14.378	1785	1787	1790	VV		2955	54118	0.49%	0.052%
188	14.414	1790	1792	1794	VV		2642	41952	0.38%	0.040%
189	14.457	1794	1798	1800	VV	2	2668	69375	0.62%	0.067%
190	14.478	1800	1801	1810	VV	2	2608	111522	1.00%	0.107%
191	14.557	1810	1812	1814	VV		2729	40445	0.36%	0.039%
192	14.585	1814	1816	1819	VV	2	2793	58968	0.53%	0.057%
193	14.614	1819	1820	1825	VV	2	2660	65580	0.59%	0.063%
194	14.693	1825	1831	1837	VV	2	2750	129469	1.16%	0.124%
195	14.750	1837	1839	1843	VV	2	2627	65019	0.58%	0.062%
196	14.808	1843	1847	1849	VV	2	2748	66494	0.60%	0.064%
197	14.836	1849	1851	1855	VV		2998	61350	0.55%	0.059%
198	14.879	1855	1857	1859	VV		2876	53593	0.48%	0.052%
199	14.908	1859	1861	1865	VV	2	2696	59897	0.54%	0.058%
200	14.951	1865	1867	1871	VV		3021	75621	0.68%	0.073%
201	15.001	1871	1874	1876	VV	2	2673	51107	0.46%	0.049%
202	15.022	1876	1877	1881	VV		2817	54686	0.49%	0.053%
203	15.065	1881	1883	1886	VV		2776	57624	0.52%	0.055%
204	15.108	1886	1889	1892	VV		3048	71604	0.64%	0.069%
205	15.137	1892	1893	1898	VV		2734	64318	0.58%	0.062%
206	15.187	1898	1900	1909	VV	2	3047	133973	1.20%	0.129%
207	15.266	1909	1911	1915	VV	2	2846	61926	0.56%	0.060%
208	15.309	1915	1917	1919	VV		2888	42058	0.38%	0.040%
209	15.338	1919	1921	1924	VV	2	3217	68038	0.61%	0.065%
210	15.366	1924	1925	1937	VV	2	3256	159329	1.43%	0.153%
211	15.481	1937	1941	1944	VV	2	3004	80968	0.73%	0.078%
212	15.538	1944	1949	1958	VV	2	3029	160490	1.44%	0.154%
213	15.631	1958	1962	1972	VV	2	3167	171916	1.54%	0.165%
214	15.732	1972	1976	1980	VV		3076	91822	0.82%	0.088%
215	15.775	1980	1982	1986	VV	2	2980	62525	0.56%	0.060%
216	15.810	1986	1987	1990	VV	2	2987	50301	0.45%	0.048%
217	15.875	1990	1996	2000	VV	2	2837	121024	1.09%	0.116%
218	15.939	2000	2005	2008	VV	2	3023	97778	0.88%	0.094%
219	16.047	2008	2020	2028	VV		76061	2269630	20.39%	2.181%
220	16.133	2028	2032	2039	VV	2	3135	126527	1.14%	0.122%
221	16.197	2039	2041	2046	VV	2	3133	81506	0.73%	0.078%
222	16.254	2046	2049	2051	VV	2	2948	69829	0.63%	0.067%
223	16.283	2051	2053	2055	VV		3100	47527	0.43%	0.046%
224	16.305	2055	2056	2062	VV	2	3047	89913	0.81%	0.086%
225	16.362	2062	2064	2067	VV	2	3003	55701	0.50%	0.054%
226	16.398	2067	2069	2071	VV	2	3050	47853	0.43%	0.046%
227	16.426	2071	2073	2075	VV	2	3231	51803	0.47%	0.050%
228	16.448	2075	2076	2082	VV	2	3243	87615	0.79%	0.084%
229	16.548	2082	2090	2096	VV	2	3177	174323	1.57%	0.168%
230	16.598	2096	2097	2105	VV		3027	115447	1.04%	0.111%
231	16.670	2105	2107	2108	VV		3180	41285	0.37%	0.040%
232	16.691	2108	2110	2123	VV	2	3174	175411	1.58%	0.169%
233	16.806	2123	2126	2133	VV		3550	135612	1.22%	0.130%
234	16.870	2133	2135	2137	VV		3134	46460	0.42%	0.045%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.892	2137	2138	2142	VV		3110	71750	0.64%	0.069%
236	16.935	2142	2144	2146	VV	2	3206	47386	0.43%	0.046%
237	16.964	2146	2148	2152	VV	2	3104	80328	0.72%	0.077%
238	17.100	2152	2167	2174	VV	2	3303	289668	2.60%	0.278%
239	17.164	2174	2176	2180	VV	2	3231	72248	0.65%	0.069%
240	17.200	2180	2181	2183	VV	2	3366	38871	0.35%	0.037%
241	17.229	2183	2185	2186	VV		3340	44925	0.40%	0.043%
242	17.250	2186	2188	2192	VV	2	3493	74975	0.67%	0.072%
243	17.286	2192	2193	2199	VV	2	3237	91125	0.82%	0.088%
244	17.343	2199	2201	2205	VV		3383	84920	0.76%	0.082%
245	17.386	2205	2207	2209	VV	2	3226	57562	0.52%	0.055%
246	17.429	2209	2213	2217	VV	2	3206	105013	0.94%	0.101%
247	17.501	2217	2223	2226	VV	3	3457	117576	1.06%	0.113%
248	17.537	2226	2228	2232	VV	2	3477	88914	0.80%	0.085%
249	17.580	2232	2234	2235	VV	2	3285	41616	0.37%	0.040%
250	17.651	2235	2244	2254	VV		94595	2599207	23.35%	2.498%
251	17.773	2254	2261	2267	VV	2	3518	176530	1.59%	0.170%
252	17.837	2267	2270	2276	VV		3651	122894	1.10%	0.118%
253	17.895	2276	2278	2280	VV		3536	58548	0.53%	0.056%
254	17.931	2280	2283	2290	VV	2	3512	131398	1.18%	0.126%
255	17.995	2290	2292	2295	VV		3436	74393	0.67%	0.072%
256	18.045	2295	2299	2301	VV		3426	75124	0.67%	0.072%
257	18.088	2301	2305	2308	VV		3600	105625	0.95%	0.102%
258	18.131	2308	2311	2313	VV	2	3397	69744	0.63%	0.067%
259	18.160	2313	2315	2322	VV	2	3377	131026	1.18%	0.126%
260	18.239	2322	2326	2327	VV	2	3362	66740	0.60%	0.064%
261	18.260	2327	2329	2331	VV		3499	47427	0.43%	0.046%
262	18.282	2331	2332	2341	VV	2	3562	147149	1.32%	0.141%
263	18.418	2341	2351	2362	VV		237026	6408569	57.58%	6.160%
264	18.504	2362	2363	2367	VV		3658	81491	0.73%	0.078%
265	18.547	2367	2369	2370	VV		3433	47675	0.43%	0.046%
266	18.568	2370	2372	2374	VV		3445	54550	0.49%	0.052%
267	18.597	2374	2376	2379	VV	2	3529	76044	0.68%	0.073%
268	18.647	2379	2383	2386	VV		3616	101067	0.91%	0.097%
269	18.683	2386	2388	2391	VV		3361	59053	0.53%	0.057%
270	18.719	2391	2393	2397	VV	2	3602	89674	0.81%	0.086%
271	18.762	2397	2399	2409	VV		3657	171670	1.54%	0.165%
272	18.840	2409	2410	2412	VV		3520	57002	0.51%	0.055%
273	18.876	2412	2415	2419	VV		3503	94620	0.85%	0.091%
274	18.919	2419	2421	2423	VV	2	3526	58573	0.53%	0.056%
275	18.948	2423	2425	2429	VV	2	3792	94001	0.84%	0.090%
276	18.998	2429	2432	2435	VV	2	3667	82858	0.74%	0.080%
277	19.034	2435	2437	2439	VV		3635	65271	0.59%	0.063%
278	19.077	2439	2443	2447	VV		3782	112297	1.01%	0.108%
279	19.127	2447	2450	2455	VV	2	3794	131177	1.18%	0.126%
280	19.213	2455	2462	2464	VV		3726	131387	1.18%	0.126%
281	19.241	2464	2466	2471	VV	2	3659	106127	0.95%	0.10252

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	19.320	2471	2477	2482	VV	2	3699	155272	1.40%	0.149%
283	19.378	2482	2485	2487	VV	2	3639	82047	0.74%	0.079%
284	19.406	2487	2489	2492	VV	2	3581	75012	0.67%	0.072%
285	19.456	2492	2496	2501	VV		4042	137603	1.24%	0.132%
286	19.514	2501	2504	2511	VV	2	3852	152945	1.37%	0.147%
287	19.585	2511	2514	2516	VV		3920	67946	0.61%	0.065%
288	19.607	2516	2517	2523	VV	2	3788	108355	0.97%	0.104%
289	19.693	2523	2529	2530	VV		3896	121597	1.09%	0.117%
290	19.721	2530	2533	2539	VV		3971	140720	1.26%	0.135%
291	19.786	2539	2542	2545	VV	2	4072	89243	0.80%	0.086%
292	19.836	2545	2549	2552	VV	2	3774	106330	0.96%	0.102%
293	19.879	2552	2555	2557	VV		3862	79498	0.71%	0.076%
294	19.922	2557	2561	2563	VV	2	3769	89520	0.80%	0.086%
295	19.951	2563	2565	2569	VV	2	3906	101868	0.92%	0.098%
296	19.994	2569	2571	2575	VV	2	3993	90253	0.81%	0.087%
297	20.029	2575	2576	2578	VV		3733	50136	0.45%	0.048%
298	20.080	2578	2583	2588	VV	2	3718	156839	1.41%	0.151%
299	20.137	2588	2591	2593	VV	2	3962	85295	0.77%	0.082%
300	20.173	2593	2596	2599	VV	2	4226	88195	0.79%	0.085%
301	20.201	2599	2600	2608	VV	2	4116	158476	1.42%	0.152%
302	20.280	2608	2611	2613	VV		3891	68526	0.62%	0.066%
303	20.309	2613	2615	2616	VV	2	3923	59269	0.53%	0.057%
304	20.345	2616	2620	2622	VV	2	3850	84409	0.76%	0.081%
305	20.373	2622	2624	2627	VV	2	3893	90571	0.81%	0.087%
306	20.409	2627	2629	2632	VV		4046	77591	0.70%	0.075%
307	20.488	2632	2640	2644	VV	2	3978	189899	1.71%	0.183%
308	20.538	2644	2647	2649	VV	2	4126	79641	0.72%	0.077%
309	20.595	2649	2655	2658	VV	2	3996	143399	1.29%	0.138%
310	20.631	2658	2660	2663	VV		3890	86636	0.78%	0.083%
311	20.667	2663	2665	2667	VV	2	3939	62779	0.56%	0.060%
312	20.710	2667	2671	2675	VV	2	4049	130755	1.17%	0.126%
313	20.767	2675	2679	2681	VV	2	4077	100294	0.90%	0.096%
314	20.803	2681	2684	2686	VV		4258	94618	0.85%	0.091%
315	20.867	2686	2693	2704	VV	2	4054	287803	2.59%	0.277%
316	20.982	2704	2709	2712	VV	2	4043	143494	1.29%	0.138%
317	21.025	2712	2715	2717	VV	2	4139	78620	0.71%	0.076%
318	21.054	2717	2719	2722	VV		4037	83141	0.75%	0.080%
319	21.118	2722	2728	2735	VV	2	4401	228659	2.05%	0.220%
320	21.183	2735	2737	2739	VV	2	4160	56607	0.51%	0.054%
321	21.204	2739	2740	2742	VV		3864	49824	0.45%	0.048%
322	21.233	2742	2744	2747	VV	2	4104	88682	0.80%	0.085%
323	21.276	2747	2750	2752	VV		4230	86383	0.78%	0.083%
324	21.312	2752	2755	2760	VV		4087	119216	1.07%	0.115%
325	21.405	2760	2768	2772	VV	2	4348	221941	1.99%	0.213%
326	21.455	2772	2775	2776	VV	2	4134	66188	0.59%	0.064%
327	21.483	2776	2779	2782	VV	2	4180	97020	0.87%	0.093%
328	21.519	2782	2784	2787	VV		4233	89309	0.80%	0.086%
329	21.555	2787	2789	2791	VV	2	4193	69807	0.63%	0.067%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	21.584	2791	2793	2794	VV	4266	59373	0.53%	0.057%
331	21.663	2794	2804	2809	VV 2	4247	250090	2.25%	0.240%
332	21.713	2809	2811	2819	VV 2	4327	171589	1.54%	0.165%
333	21.784	2819	2821	2823	VV 2	4047	68147	0.61%	0.066%
334	21.813	2823	2825	2828	VV	4245	87506	0.79%	0.084%
335	21.856	2828	2831	2839	VV 2	4358	197774	1.78%	0.190%
336	21.928	2839	2841	2843	VV	4194	61954	0.56%	0.060%
337	21.985	2843	2849	2862	VV 2	4307	335365	3.01%	0.322%
338	22.092	2862	2864	2873	VV 2	4108	194368	1.75%	0.187%
339	22.178	2873	2876	2879	VV	4360	113787	1.02%	0.109%
340	22.214	2879	2881	2883	VV	4333	70008	0.63%	0.067%
341	22.243	2883	2885	2887	VV	4316	63390	0.57%	0.061%
342	22.271	2887	2889	2894	VV	4498	127301	1.14%	0.122%
343	22.322	2894	2896	2901	VV	4430	130657	1.17%	0.126%
344	22.372	2901	2903	2907	VV	4539	119236	1.07%	0.115%
345	22.443	2907	2913	2915	VV 2	4439	146383	1.32%	0.141%
346	22.479	2915	2918	2920	VV 2	4410	82345	0.74%	0.079%
347	22.508	2920	2922	2926	VV	4410	114216	1.03%	0.110%
348	22.565	2926	2930	2931	VV	4373	97746	0.88%	0.094%
349	22.601	2931	2935	2937	VV 2	4506	103380	0.93%	0.099%
350	22.637	2937	2940	2950	VV 2	4563	239811	2.15%	0.230%
351	22.759	2950	2957	2959	VV 2	4539	170250	1.53%	0.164%
352	22.787	2959	2961	2963	VV	4416	64774	0.58%	0.062%
353	22.830	2963	2967	2969	VV 2	4383	105949	0.95%	0.102%
354	22.859	2969	2971	2976	VV	4329	135263	1.22%	0.130%
355	22.909	2976	2978	2980	VV 2	4316	63591	0.57%	0.061%
356	22.945	2980	2983	2985	VBA2	4451	95235	0.86%	0.092%

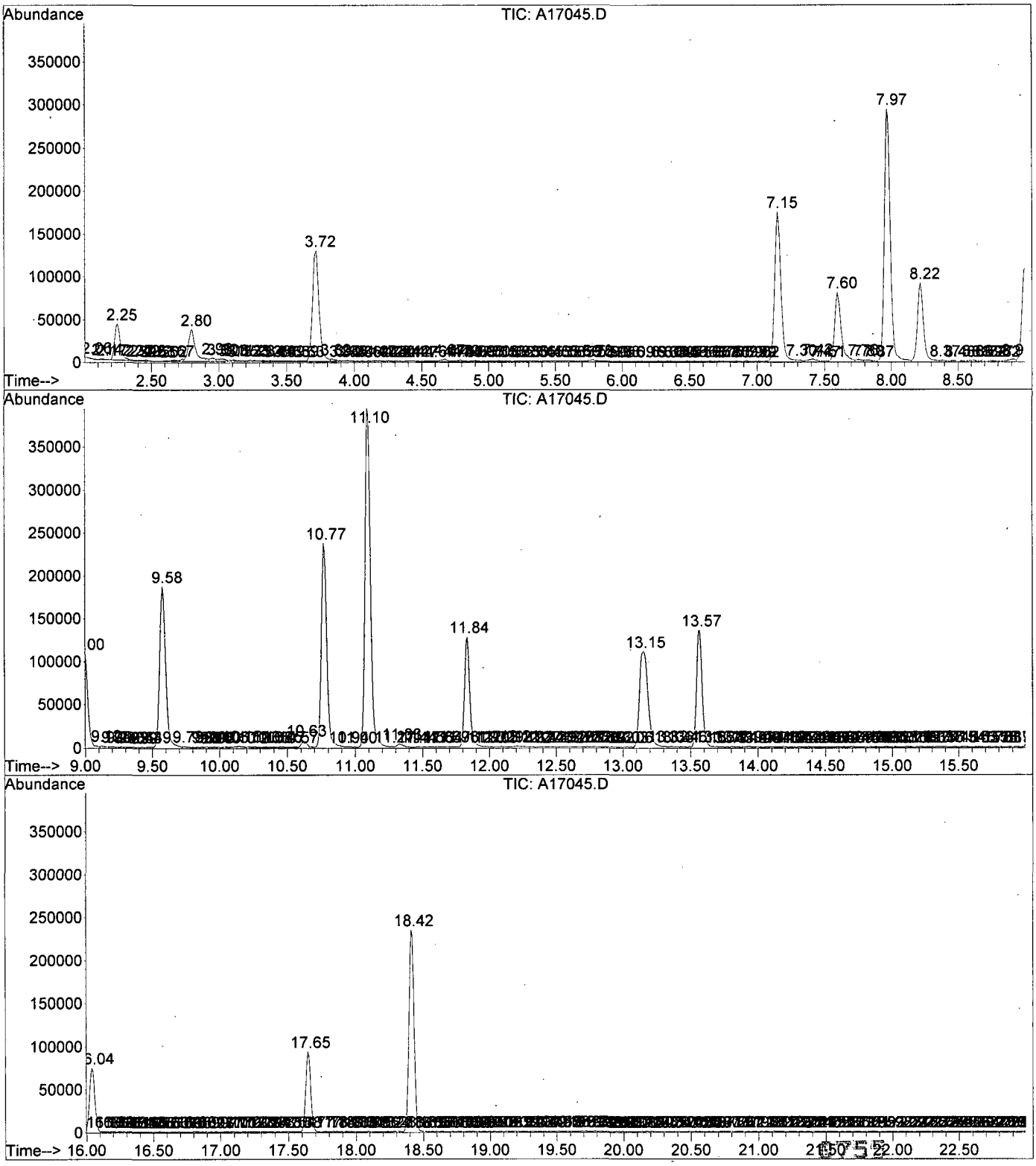
Sum of corrected areas: 104040016

0754

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

11/28/08

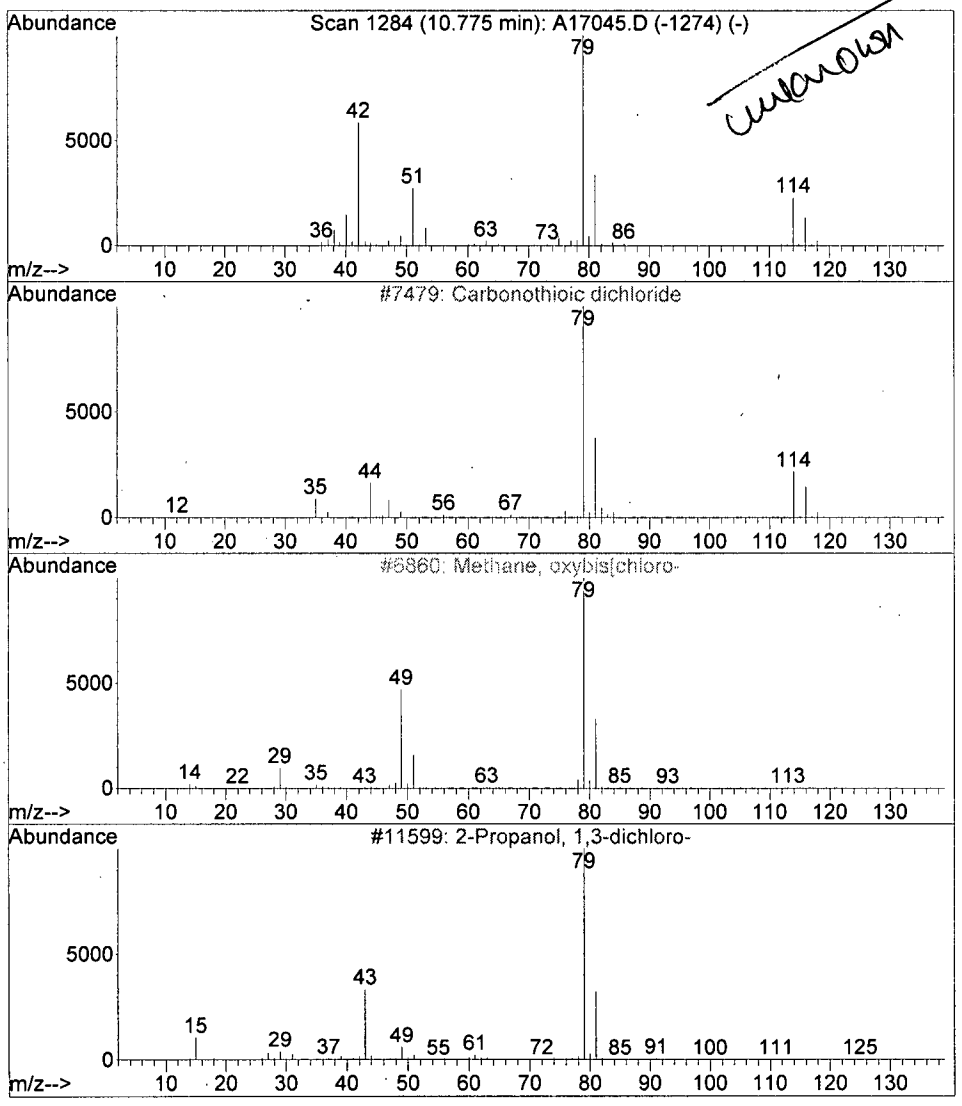
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

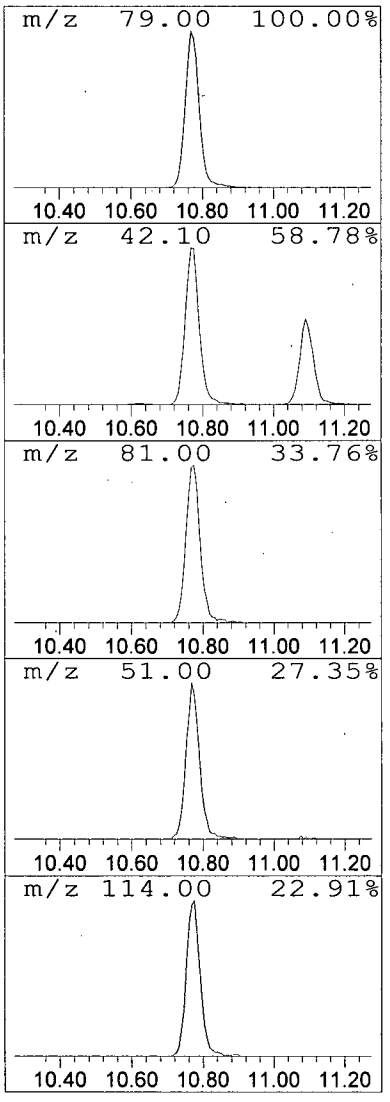
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	10.39 ug/L	6727300	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	Cyclopropene, 3-methyl-3-vinyl-	80	C6H8	071153-30-5	9
5	Cyclopropane	42	C3H6	000075-19-4	9





0756

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17045.D
Acq On : 11/27/08 07:50 Operator: SB
Sample : VBLK27 Inst : A-5973
Misc : VBLK27 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	10.4	ug/L	6727300	1	9.00	3236620	5.0

0757

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK31

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17082

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK31

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17082

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK31

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17082

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.79	11	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17082.D
Acq On : 11/28/08 10:06
Sample : VBLK31
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Operator: SB
Inst : A-5973

Quant Time: Nov 28 16:11:48 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 16:10:41 2008
Response via : Initial Calibration

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.01	114	1180573	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.58	117	1102153	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.66	152	329448	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	717362	4.66	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 93.20%			
7) Chloroethane-d5	2.81	69	495853	5.45	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 109.00%			
10) 1,1-Dichloroethene-d2	3.73	63	1501888	3.96	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 79.20%			
21) 2-Butanone-d5	7.61	46	1248423	45.14	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 90.28%			
24) Chloroform-d	7.17	84	1998907	4.79	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 95.80%			
26) 1,2-Dichloroethane-d4	8.24	65	929107	5.57	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 111.40%			
32) Benzene-d6	7.99	84	3876008	4.77	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 95.40%			
36) 1,2-Dichloropropane-d6	9.60	67	1148573	4.76	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 95.20%			
41) Toluene-d8	11.11	98	3802858	5.11	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 102.20%			
43) trans-1,3-Dichloropropene-	11.85	79	1003676	4.77	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 95.40%			
47) 2-Hexanone-d5	13.17	63	569052	46.84	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 93.68%			
57) 1,1,2,2-Tetrachloroethane-	16.06	84	577704	5.03	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 100.60%			
63) 1,2-Dichlorobenzene-d4	18.43	152	938411	6.27	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 125.40%			

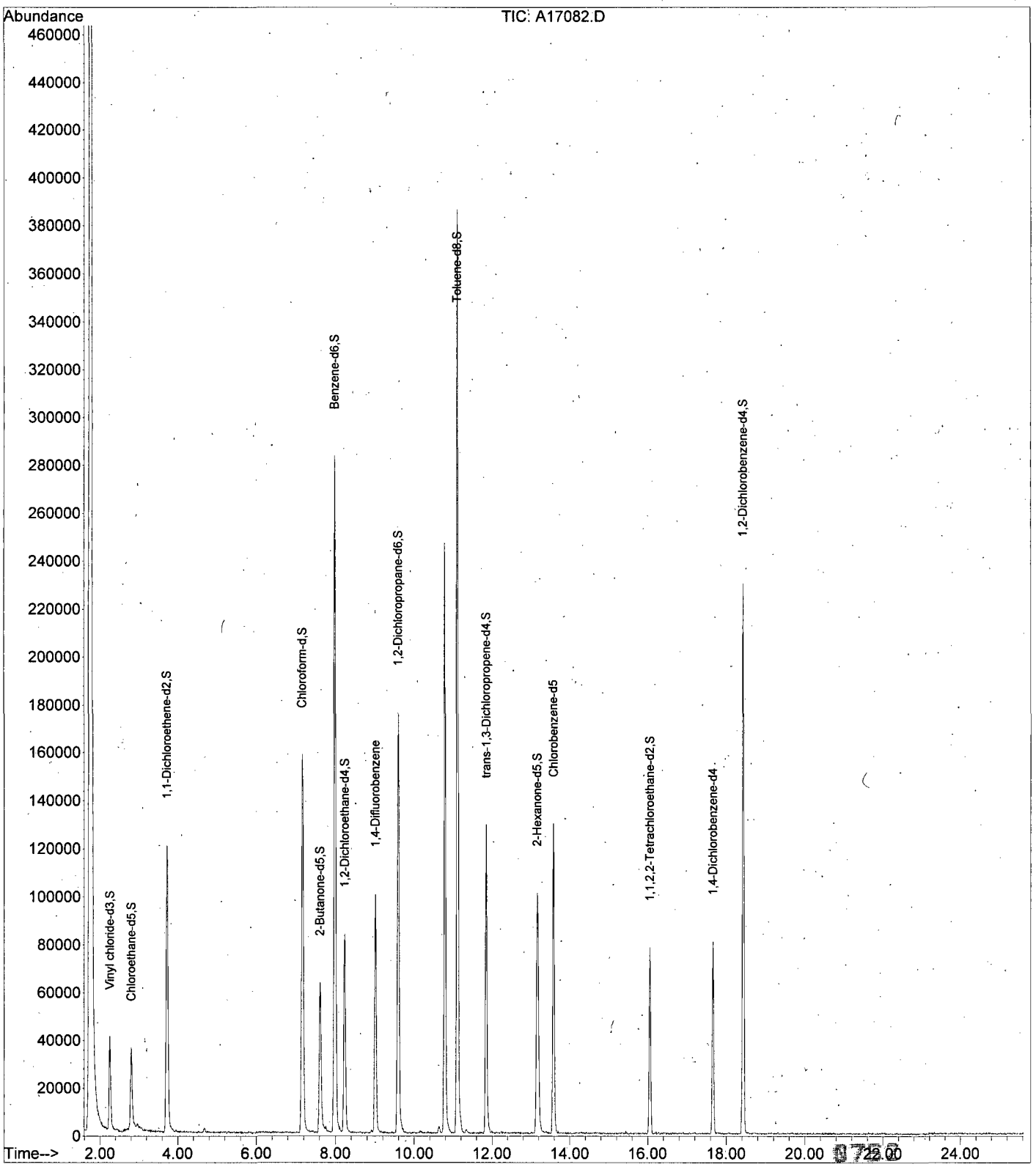
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0761

Data File: C:\MSDCHEM\1\DATA\A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 28 16:11:48 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 16:10:41 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.143	76	79	85	PV 3	655	10794	0.10%	0.014%
2	2.251	85	94	108	PV	39420	1149641	10.99%	1.496%
3	2.365	108	110	115	VV 3	1005	19529	0.19%	0.025%
4	2.437	115	120	121	VV 2	908	17709	0.17%	0.023%
5	2.459	121	123	129	VV 2	843	14489	0.14%	0.019%
6	2.509	129	130	139	PV 3	363	5876	0.06%	0.008%
7	2.595	139	142	144	PV	815	7398	0.07%	0.010%
8	2.623	144	146	148	VV	1195	10745	0.10%	0.014%
9	2.652	148	150	154	VV	1276	22229	0.21%	0.029%
10	2.716	154	159	161	VV 2	1714	41965	0.40%	0.055%
11	2.802	161	171	189	VV	34914	1276549	12.21%	1.661%
12	2.974	189	195	199	VV 5	3575	124750	1.19%	0.162%
13	3.024	199	202	205	VV 2	2437	50315	0.48%	0.065%
14	3.075	205	209	217	VV 3	2001	69894	0.67%	0.091%
15	3.146	217	219	222	VV	1338	22147	0.21%	0.029%
16	3.182	222	224	228	VV 3	1197	22893	0.22%	0.030%
17	3.225	228	230	233	VV 2	961	15858	0.15%	0.021%
18	3.289	233	239	241	VV 2	1095	23661	0.23%	0.031%
19	3.332	241	245	247	VV	1013	16943	0.16%	0.022%
20	3.375	247	251	252	VV 2	756	9886	0.09%	0.013%
21	3.397	252	254	256	VV 2	620	7725	0.07%	0.010%
22	3.426	256	258	267	VV 2	909	22427	0.21%	0.029%
23	3.512	267	270	274	VV 2	907	17371	0.17%	0.023%
24	3.555	274	276	277	VV	786	6484	0.06%	0.008%
25	3.590	277	281	284	VV 2	684	11924	0.11%	0.016%
26	3.626	284	286	288	VV	638	5199	0.05%	0.007%
27	3.726	288	300	329	PV	120415	4092213	39.14%	5.324%
28	3.956	329	332	338	VV 2	1371	30278	0.29%	0.039%
29	4.013	338	340	342	VV 2	739	7530	0.07%	0.010%
30	4.042	342	344	346	VV	700	8554	0.08%	0.011%
31	4.063	346	347	354	VV	748	15318	0.15%	0.020%
32	4.128	354	356	357	VV 2	556	5772	0.06%	0.008%
33	4.163	357	361	365	VV 2	874	15018	0.14%	0.020%
34	4.206	365	367	369	VV	519	7703	0.07%	0.010%
35	4.235	369	371	377	VV 2	821	15380	0.15%	0.020%
36	4.292	377	379	383	VV 2	611	11903	0.11%	0.015%
37	4.342	383	386	392	VV 2	777	14423	0.14%	0.019%
38	4.400	392	394	397	VV 2	462	6359	0.06%	0.008%
39	4.450	397	401	408	VV 2	524	16326	0.16%	0.021%
40	4.522	408	411	412	VV	547	6545	0.06%	0.009%
41	4.543	412	414	416	VV 2	784	10540	0.10%	0.014%
42	4.572	416	418	421	VV 2	520	8588	0.08%	0.011%
43	4.607	421	423	425	VV 2	410	5102	0.05%	0.007%
44	4.693	425	435	441	VV 5	2121	71737	0.69%	0.093%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.765	441	445	450	VV 2	909	21571	0.21%	0.028%
46	4.808	450	451	457	VV	660	14103	0.13%	0.018%
47	4.865	457	459	463	VV 2	480	9959	0.10%	0.013%
48	4.908	463	465	471	VV 2	564	14804	0.14%	0.019%
49	4.973	471	474	476	VV	491	6972	0.07%	0.009%
50	5.001	476	478	487	VV 2	552	18062	0.17%	0.024%
51	5.080	487	489	490	VV	597	6425	0.06%	0.008%
52	5.102	490	492	497	VV 2	799	15139	0.14%	0.020%
53	5.166	497	501	504	VV 2	704	13716	0.13%	0.018%
54	5.224	504	509	513	VV 2	772	20368	0.19%	0.027%
55	5.288	513	518	524	PV 2	715	23427	0.22%	0.030%
56	5.338	524	525	529	VV	573	7562	0.07%	0.010%
57	5.374	529	530	532	VV	655	7376	0.07%	0.010%
58	5.403	532	534	538	VV	627	10790	0.10%	0.014%
59	5.438	538	539	544	VV 2	721	10901	0.10%	0.014%
60	5.489	544	546	551	VV 2	746	12371	0.12%	0.016%
61	5.539	551	553	558	VV 2	492	11325	0.11%	0.015%
62	5.596	558	561	571	VV 2	898	23208	0.22%	0.030%
63	5.696	571	575	578	VV	593	11570	0.11%	0.015%
64	5.761	578	584	587	VV 2	479	11664	0.11%	0.015%
65	5.811	587	591	594	VV 2	1029	16571	0.16%	0.022%
66	5.847	594	596	603	VV 2	717	18140	0.17%	0.024%
67	5.954	603	611	617	VV 2	494	16678	0.16%	0.022%
68	6.019	617	620	624	VV 2	919	16478	0.16%	0.021%
69	6.062	624	626	631	VV 2	737	13258	0.13%	0.017%
70	6.140	631	637	640	VV	656	18802	0.18%	0.024%
71	6.183	640	643	649	VV 2	780	17372	0.17%	0.023%
72	6.234	649	650	653	VV	733	9082	0.09%	0.012%
73	6.269	653	655	657	VV	700	8256	0.08%	0.011%
74	6.298	657	659	661	VV	565	5820	0.06%	0.008%
75	6.334	661	664	670	VV 2	716	14691	0.14%	0.019%
76	6.398	670	673	676	PV 2	603	8983	0.09%	0.012%
77	6.434	676	678	683	VV 2	725	15305	0.15%	0.020%
78	6.484	683	685	691	VV 2	622	13361	0.13%	0.017%
79	6.549	691	694	698	VV	632	13738	0.13%	0.018%
80	6.585	698	699	708	VV 2	496	16410	0.16%	0.021%
81	6.670	708	711	713	VV 2	702	10241	0.10%	0.013%
82	6.699	713	715	717	VV 2	500	6036	0.06%	0.008%
83	6.735	717	720	723	VV 2	665	12130	0.12%	0.016%
84	6.771	723	725	726	VV 2	646	6797	0.07%	0.009%
85	6.792	726	728	732	VV	686	13492	0.13%	0.018%
86	6.857	732	737	743	VV 2	808	20237	0.19%	0.026%
87	6.921	743	746	747	VV 2	574	6546	0.06%	0.009%
88	6.943	747	749	750	VV 2	497	4600	0.04%	0.006%
89	6.964	750	752	756	VV 2	530	7482	0.07%	0.010%
90	7.021	756	760	766	VV 2	724	18834	0.18%	0.025%
91	7.172	766	781	803	VV	157667	5302812	50.71%	6.9[illegible]

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	7.337	803	804	807	VV		1391	17320	0.17%	0.023%
93	7.380	807	810	823	VV	3	1172	56946	0.54%	0.074%
94	7.516	823	829	833	VV	2	797	23027	0.22%	0.030%
95	7.616	833	843	858	VV	2	63446	2168385	20.74%	2.821%
96	7.731	858	859	861	VV	2	2638	33402	0.32%	0.043%
97	7.766	861	864	874	VV	2	2979	83169	0.80%	0.108%
98	7.988	882	895	918	VV		282162	8662124	82.84%	11.270%
99	8.239	918	930	951	VV		83328	2683577	25.66%	3.492%
100	8.404	951	953	956	VV		823	11020	0.11%	0.014%
101	8.440	956	958	963	VV		782	15878	0.15%	0.021%
102	8.490	963	965	970	VV	2	698	16353	0.16%	0.021%
103	8.562	970	975	982	VV	2	728	23774	0.23%	0.031%
104	8.633	982	985	990	VV	2	830	20782	0.20%	0.027%
105	8.719	990	997	1000	VV	2	609	17600	0.17%	0.023%
106	8.762	1000	1003	1006	PV	2	643	10164	0.10%	0.013%
107	8.798	1006	1008	1015	VV	2	712	18636	0.18%	0.024%
108	8.862	1015	1017	1019	VV		518	5119	0.05%	0.007%
109	8.920	1019	1025	1029	VV		1520	37795	0.36%	0.049%
110	9.013	1029	1038	1056	VV		99227	2943071	28.15%	3.829%
111	9.156	1056	1058	1063	VV	2	1377	23633	0.23%	0.031%
112	9.206	1063	1065	1067	VV		925	11425	0.11%	0.015%
113	9.263	1067	1073	1074	VV	2	829	16691	0.16%	0.022%
114	9.285	1074	1076	1079	VV		723	10207	0.10%	0.013%
115	9.321	1079	1081	1086	VV	2	620	12216	0.12%	0.016%
116	9.371	1086	1088	1089	VV		416	4073	0.04%	0.005%
117	9.392	1089	1091	1094	VV	2	550	7844	0.08%	0.010%
118	9.428	1094	1096	1101	VV	2	835	15440	0.15%	0.020%
119	9.593	1101	1119	1136	VV	2	174272	5484222	52.45%	7.136%
120	9.722	1136	1137	1141	VV	3	1920	22306	0.21%	0.029%
121	9.758	1141	1142	1151	VV	2	831	25329	0.24%	0.033%
122	9.894	1151	1161	1165	VV	2	712	23498	0.22%	0.031%
123	9.944	1165	1168	1173	PV	2	634	13837	0.13%	0.018%
124	10.008	1173	1177	1186	VV	2	694	27341	0.26%	0.036%
125	10.087	1186	1188	1189	VV		634	6970	0.07%	0.009%
126	10.109	1189	1191	1193	VV		663	9008	0.09%	0.012%
127	10.159	1193	1198	1201	VV	3	1303	29444	0.28%	0.038%
128	10.195	1201	1203	1205	VV		1146	14332	0.14%	0.019%
129	10.223	1205	1207	1209	VV	2	671	7375	0.07%	0.010%
130	10.266	1209	1213	1215	VV		742	12135	0.12%	0.016%
131	10.309	1215	1219	1221	VV	2	607	11380	0.11%	0.015%
132	10.352	1221	1225	1231	VV	2	901	23781	0.23%	0.031%
133	10.417	1231	1234	1235	VV	2	828	8878	0.08%	0.012%
134	10.438	1235	1237	1239	VV		704	6553	0.06%	0.009%
135	10.460	1239	1240	1244	VV	2	560	7723	0.07%	0.010%
136	10.517	1244	1248	1252	VV	2	663	16230	0.16%	0.021%
137	10.560	1252	1254	1255	VV	2	417	3814	0.04%	0.005%
138	10.632	1255	1264	1275	VV	4	3290	113605	1.09%	0.148%
139	10.789	1275	1286	1310	VV		241474	6583371	62.96%	8.5[illegible]%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.990	1310	1314	1317	VV 2	851	16136	0.15%	0.021%
141	11.026	1317	1319	1321	VV	573	7971	0.08%	0.010%
142	11.112	1321	1331	1352	VV	382441	10456414	100.00%	13.605%
143	11.269	1352	1353	1355	VV	946	9782	0.09%	0.013%
144	11.341	1355	1363	1374	VV 4	1933	76327	0.73%	0.099%
145	11.434	1374	1376	1378	VV	659	7309	0.07%	0.010%
146	11.470	1378	1381	1384	VV 2	488	11230	0.11%	0.015%
147	11.506	1384	1386	1387	VV	484	4769	0.05%	0.006%
148	11.527	1387	1389	1393	VV	745	10623	0.10%	0.014%
149	11.570	1393	1395	1400	VV	593	14627	0.14%	0.019%
150	11.620	1400	1402	1411	VV 2	710	20234	0.19%	0.026%
151	11.735	1411	1418	1420	VV 2	886	21367	0.20%	0.028%
152	11.849	1420	1434	1450	VV	129406	3521079	33.67%	4.581%
153	11.993	1450	1454	1456	VV 2	1333	21639	0.21%	0.028%
154	12.021	1456	1458	1464	VV 2	816	20018	0.19%	0.026%
155	12.079	1464	1466	1467	VV	760	7417	0.07%	0.010%
156	12.100	1467	1469	1471	VV 2	835	9164	0.09%	0.012%
157	12.122	1471	1472	1475	VV	837	12437	0.12%	0.016%
158	12.157	1475	1477	1485	VV 2	724	20849	0.20%	0.027%
159	12.236	1485	1488	1495	VV 2	1210	28215	0.27%	0.037%
160	12.301	1495	1497	1501	VV 2	836	16799	0.16%	0.022%
161	12.358	1501	1505	1510	VV 2	757	19328	0.18%	0.025%
162	12.415	1510	1513	1515	VV 2	742	11574	0.11%	0.015%
163	12.444	1515	1517	1519	VV 2	557	8808	0.08%	0.011%
164	12.487	1519	1523	1528	VV 2	658	17340	0.17%	0.023%
165	12.537	1528	1530	1533	VV 2	856	11202	0.11%	0.015%
166	12.580	1533	1536	1546	VV	915	25700	0.25%	0.033%
167	12.673	1546	1549	1553	VV 2	778	16789	0.16%	0.022%
168	12.709	1553	1554	1556	VV	699	6689	0.06%	0.009%
169	12.738	1556	1558	1560	VV	863	6235	0.06%	0.008%
170	12.766	1560	1562	1567	VV 2	516	11227	0.11%	0.015%
171	12.816	1567	1569	1572	VV 2	559	8365	0.08%	0.011%
172	12.852	1572	1574	1577	VV 2	665	9493	0.09%	0.012%
173	12.888	1577	1579	1580	VV	551	6039	0.06%	0.008%
174	12.924	1580	1584	1586	VV 2	689	12160	0.12%	0.016%
175	12.945	1586	1587	1594	VV 2	500	8840	0.08%	0.012%
176	13.017	1594	1597	1599	VV	919	12352	0.12%	0.016%
177	13.038	1599	1600	1602	VV	728	7503	0.07%	0.010%
178	13.060	1602	1603	1605	VV	589	6302	0.06%	0.008%
179	13.167	1605	1618	1639	VV 3	101036	3933684	37.62%	5.118%
180	13.332	1639	1641	1644	VV	1332	21313	0.20%	0.028%
181	13.389	1644	1649	1655	VV 2	1247	38649	0.37%	0.050%
182	13.454	1655	1658	1664	VV 2	843	18648	0.18%	0.024%
183	13.583	1664	1676	1695	VV	130302	3602690	34.45%	4.688%
184	13.733	1695	1697	1698	VV	639	6967	0.07%	0.009%
185	13.755	1698	1700	1702	VV 2	595	7446	0.07%	0.010%
186	13.791	1702	1705	1710	VV	680	17746	0.17%	0.023%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.841	1710	1712	1719	VV 2	656	17546	0.17%	0.023%
188	13.905	1719	1721	1723	VV	761	7837	0.07%	0.010%
189	13.934	1723	1725	1734	VV 2	613	19083	0.18%	0.025%
190	14.027	1734	1738	1741	VV 2	739	13724	0.13%	0.018%
191	14.063	1741	1743	1745	VV	425	4184	0.04%	0.005%
192	14.163	1745	1757	1762	VV 2	772	34132	0.33%	0.044%
193	14.213	1762	1764	1766	VV 2	591	8056	0.08%	0.010%
194	14.270	1766	1772	1773	VV 2	710	16988	0.16%	0.022%
195	14.292	1773	1775	1780	VV 2	978	19899	0.19%	0.026%
196	14.349	1780	1783	1785	VV 2	679	10499	0.10%	0.014%
197	14.378	1785	1787	1789	VV	676	7903	0.08%	0.010%
198	14.414	1789	1792	1794	VV 2	698	8817	0.08%	0.011%
199	14.435	1794	1795	1800	VV 2	785	12647	0.12%	0.016%
200	14.492	1800	1803	1805	VV	687	7536	0.07%	0.010%
201	14.528	1805	1808	1812	VV	634	11754	0.11%	0.015%
202	14.578	1812	1815	1817	VV	593	8519	0.08%	0.011%
203	14.607	1817	1819	1820	VV	464	6727	0.06%	0.009%
204	14.636	1820	1823	1825	VV 2	760	10469	0.10%	0.014%
205	14.664	1825	1827	1831	VV 2	864	14638	0.14%	0.019%
206	14.707	1831	1833	1839	VV 2	737	20490	0.20%	0.027%
207	14.765	1839	1841	1843	VV	644	8367	0.08%	0.011%
208	14.793	1843	1845	1846	VV	587	5782	0.06%	0.008%
209	14.815	1846	1848	1860	VV 2	592	24724	0.24%	0.032%
210	14.915	1860	1862	1866	VV 2	476	8888	0.09%	0.012%
211	14.965	1866	1869	1876	VV 2	513	13119	0.13%	0.017%
212	15.030	1876	1878	1883	VV 2	586	12318	0.12%	0.016%
213	15.094	1883	1887	1889	VV	572	10110	0.10%	0.013%
214	15.151	1889	1895	1896	VV	588	10748	0.10%	0.014%
215	15.187	1896	1900	1908	VV 2	608	18915	0.18%	0.025%
216	15.280	1908	1913	1914	VV	539	11313	0.11%	0.015%
217	15.302	1914	1916	1918	VV	603	7528	0.07%	0.010%
218	15.331	1918	1920	1923	VV	750	10801	0.10%	0.014%
219	15.374	1923	1926	1929	VV	554	12110	0.12%	0.016%
220	15.409	1929	1931	1932	VV	557	5388	0.05%	0.007%
221	15.438	1932	1935	1943	VV	1249	25711	0.25%	0.033%
222	15.567	1943	1953	1957	VV 2	789	18979	0.18%	0.025%
223	15.610	1957	1959	1961	VV	463	5696	0.05%	0.007%
224	15.703	1961	1972	1975	VV 2	628	23632	0.23%	0.031%
225	15.753	1975	1979	1984	VV 2	637	14470	0.14%	0.019%
226	15.796	1984	1985	1992	VV 2	508	11939	0.11%	0.016%
227	15.882	1992	1997	2005	VV 2	654	21445	0.21%	0.028%
228	15.947	2005	2006	2010	VV	507	7439	0.07%	0.010%
229	16.054	2010	2021	2036	VV 2	76964	2071458	19.81%	2.695%
230	16.176	2036	2038	2040	VV	636	6210	0.06%	0.008%
231	16.204	2040	2042	2046	VV	686	14345	0.14%	0.019%
232	16.276	2046	2052	2054	VV	928	18665	0.18%	0.024%
233	16.298	2054	2055	2058	VV	680	6560	0.06%	0.009%
234	16.341	2058	2061	2063	PV 2	589	8549	0.08%	0.011%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.369	2063	2065	2068	VV 2	589	8756	0.08%	0.011%
236	16.419	2068	2072	2083	VV 2	771	30221	0.29%	0.039%
237	16.527	2083	2087	2092	VV	585	14947	0.14%	0.019%
238	16.577	2092	2094	2098	VV	595	8239	0.08%	0.011%
239	16.627	2098	2101	2110	VV	759	22197	0.21%	0.029%
240	16.699	2110	2111	2122	VV 2	713	22529	0.22%	0.029%
241	16.806	2122	2126	2131	VV	617	18125	0.17%	0.024%
242	16.871	2131	2135	2137	VV	502	9334	0.09%	0.012%
243	16.906	2137	2140	2144	VV 2	893	16394	0.16%	0.021%
244	16.942	2144	2145	2153	VV	438	11203	0.11%	0.015%
245	17.064	2153	2162	2165	VV 2	762	21172	0.20%	0.028%
246	17.107	2165	2168	2171	VV 2	464	8667	0.08%	0.011%
247	17.143	2171	2173	2176	VV 2	552	11165	0.11%	0.015%
248	17.179	2176	2178	2180	VV 2	710	8477	0.08%	0.011%
249	17.200	2180	2181	2190	VV 2	848	19784	0.19%	0.026%
250	17.322	2190	2198	2202	VV 2	550	18033	0.17%	0.023%
251	17.415	2202	2211	2214	VV 2	630	22141	0.21%	0.029%
252	17.465	2214	2218	2220	VV 2	584	9218	0.09%	0.012%
253	17.494	2220	2222	2224	VV	621	6694	0.06%	0.009%
254	17.530	2224	2227	2233	VV 2	664	15858	0.15%	0.021%
255	17.666	2235	2246	2258	VV	80130	2067159	19.77%	2.690%
256	17.766	2258	2260	2262	VV	725	8556	0.08%	0.011%
257	17.795	2262	2264	2268	VV 2	810	15305	0.15%	0.020%
258	17.838	2268	2270	2285	VV 2	770	31397	0.30%	0.041%
259	17.959	2285	2287	2295	VV	558	14731	0.14%	0.019%
260	18.067	2295	2302	2326	VV 2	775	57367	0.55%	0.075%
261	18.260	2326	2329	2333	VV 2	579	10291	0.10%	0.013%
262	18.310	2333	2336	2340	VV	549	10964	0.10%	0.014%
263	18.432	2340	2353	2366	VV	225890	5871999	56.16%	7.640%
264	18.540	2366	2368	2383	VV 2	900	38918	0.37%	0.051%
265	18.740	2383	2396	2401	VV 2	748	39349	0.38%	0.051%
266	18.783	2401	2402	2406	VV	588	6576	0.06%	0.009%
267	18.855	2406	2412	2418	VV	619	19401	0.19%	0.025%
268	18.941	2418	2424	2430	VV 2	606	16606	0.16%	0.022%
269	19.070	2430	2442	2451	VV	592	37774	0.36%	0.049%
270	19.156	2451	2454	2473	VV 2	739	38641	0.37%	0.050%
271	19.313	2473	2476	2481	VV	896	18628	0.18%	0.024%
272	19.363	2481	2483	2487	VV 2	367	7112	0.07%	0.009%
273	19.449	2487	2495	2498	VV	682	18049	0.17%	0.023%
274	19.485	2498	2500	2508	VV	483	13138	0.13%	0.017%
275	19.571	2508	2512	2516	VV 2	670	15410	0.15%	0.020%
276	19.614	2516	2518	2520	VV 2	469	6349	0.06%	0.008%
277	19.686	2520	2528	2537	VV 2	787	34550	0.33%	0.045%
278	19.764	2537	2539	2553	VV 2	620	24569	0.23%	0.032%
279	19.901	2553	2558	2563	VV 2	647	16619	0.16%	0.022%
280	19.951	2563	2565	2598	VV 2	628	55281	0.53%	0.072%
281	20.216	2598	2602	2605	VV 2	697	10359	0.10%	0.013%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	20.252	2605	2607	2610	VV 2	328	6531	0.06%	0.008%
283	20.309	2610	2615	2620	VV 2	614	15536	0.15%	0.020%
284	20.359	2620	2622	2632	VV 2	477	18618	0.18%	0.024%
285	20.445	2632	2634	2646	VV 2	713	22443	0.21%	0.029%
286	20.545	2646	2648	2650	VV 2	688	9057	0.09%	0.012%
287	20.567	2650	2651	2660	VV 2	732	13856	0.13%	0.018%
288	20.653	2660	2663	2669	VV 2	655	14144	0.14%	0.018%
289	20.739	2669	2675	2683	VV 2	769	25816	0.25%	0.034%
290	20.825	2683	2687	2690	VV	441	8127	0.08%	0.011%
291	20.860	2690	2692	2695	VV	432	4812	0.05%	0.006%
292	20.982	2695	2709	2722	VV 2	631	42237	0.40%	0.055%
293	21.147	2722	2732	2743	VV 2	629	39281	0.38%	0.051%
294	21.254	2743	2747	2755	VV 2	471	15792	0.15%	0.021%
295	21.326	2755	2757	2764	VV 2	444	13076	0.13%	0.017%
296	21.398	2764	2767	2769	VV	573	6783	0.06%	0.009%
297	21.441	2769	2773	2779	VV 2	415	12188	0.12%	0.016%
298	21.505	2779	2782	2785	VV	649	9171	0.09%	0.012%
299	21.548	2785	2788	2790	VV	566	6320	0.06%	0.008%
300	21.577	2790	2792	2795	VV 2	430	6694	0.06%	0.009%
301	21.634	2795	2800	2805	VV	907	19577	0.19%	0.025%
302	21.684	2805	2807	2814	VV	527	13339	0.13%	0.017%
303	21.749	2814	2816	2821	VV	662	13574	0.13%	0.018%
304	21.799	2821	2823	2828	VV	433	8185	0.08%	0.011%
305	21.856	2828	2831	2835	VV 2	655	10540	0.10%	0.014%
306	21.928	2835	2841	2845	VV 2	622	15914	0.15%	0.021%
307	21.978	2845	2848	2850	VV 2	734	10843	0.10%	0.014%
308	22.035	2850	2856	2862	VV 2	674	22682	0.22%	0.030%
309	22.092	2862	2864	2866	VV	532	4776	0.05%	0.006%
310	22.128	2866	2869	2872	VV 2	355	6685	0.06%	0.009%
311	22.193	2872	2878	2892	VV 2	550	25472	0.24%	0.033%
312	22.307	2892	2894	2898	VV 2	470	7626	0.07%	0.010%
313	22.365	2898	2902	2905	VV 2	614	13561	0.13%	0.018%
314	22.408	2905	2908	2910	VV 2	388	5418	0.05%	0.007%
315	22.458	2910	2915	2920	VV	497	11519	0.11%	0.015%
316	22.644	2920	2941	2947	VV 2	498	28363	0.27%	0.037%
317	22.737	2947	2954	2958	VV 2	655	14520	0.14%	0.019%
318	22.823	2958	2966	2972	VV	489	15044	0.14%	0.020%
319	22.888	2972	2975	2982	PV	374	8514	0.08%	0.011%

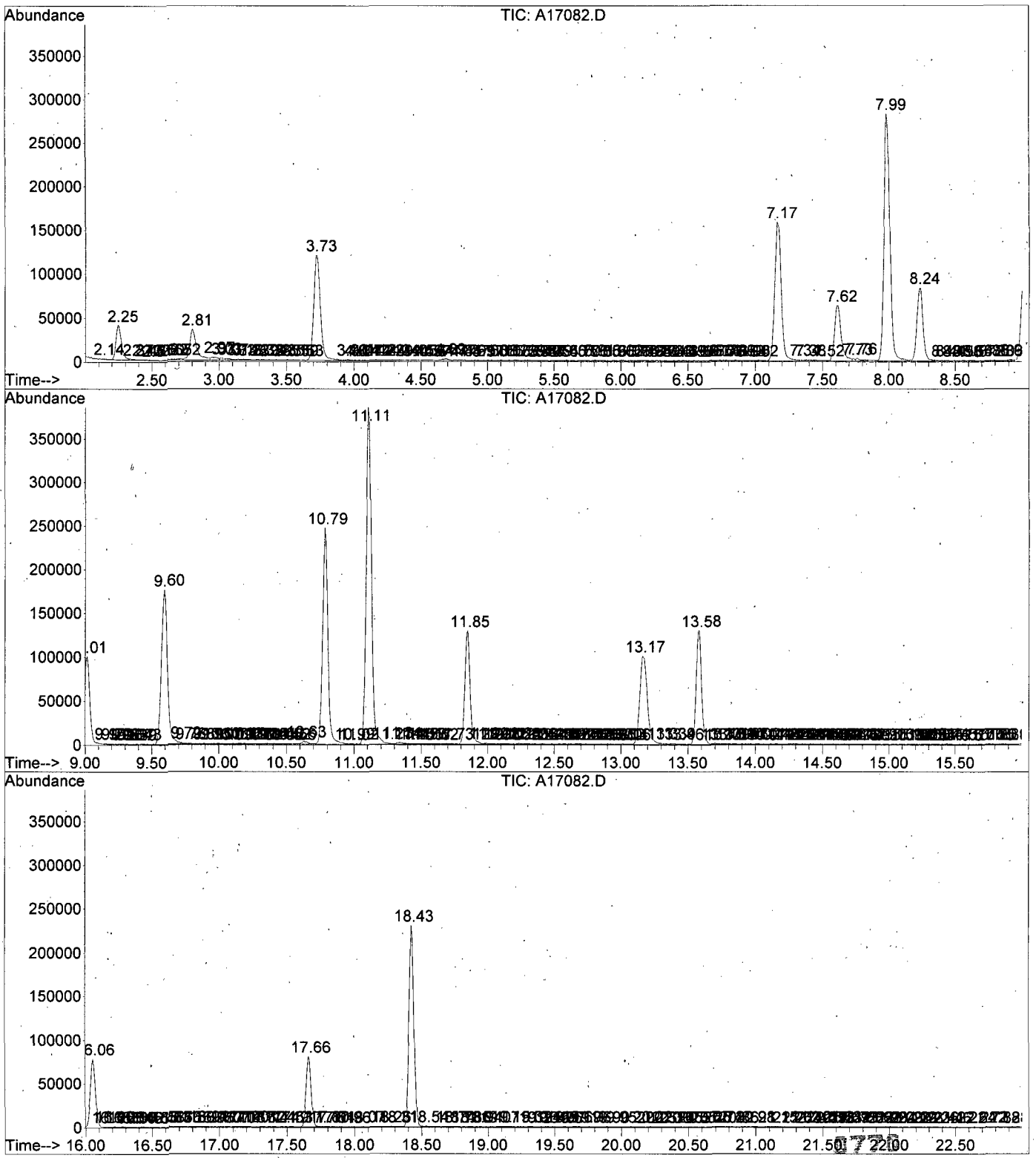
Sum of corrected areas: 76856995

0769

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

11/28/08

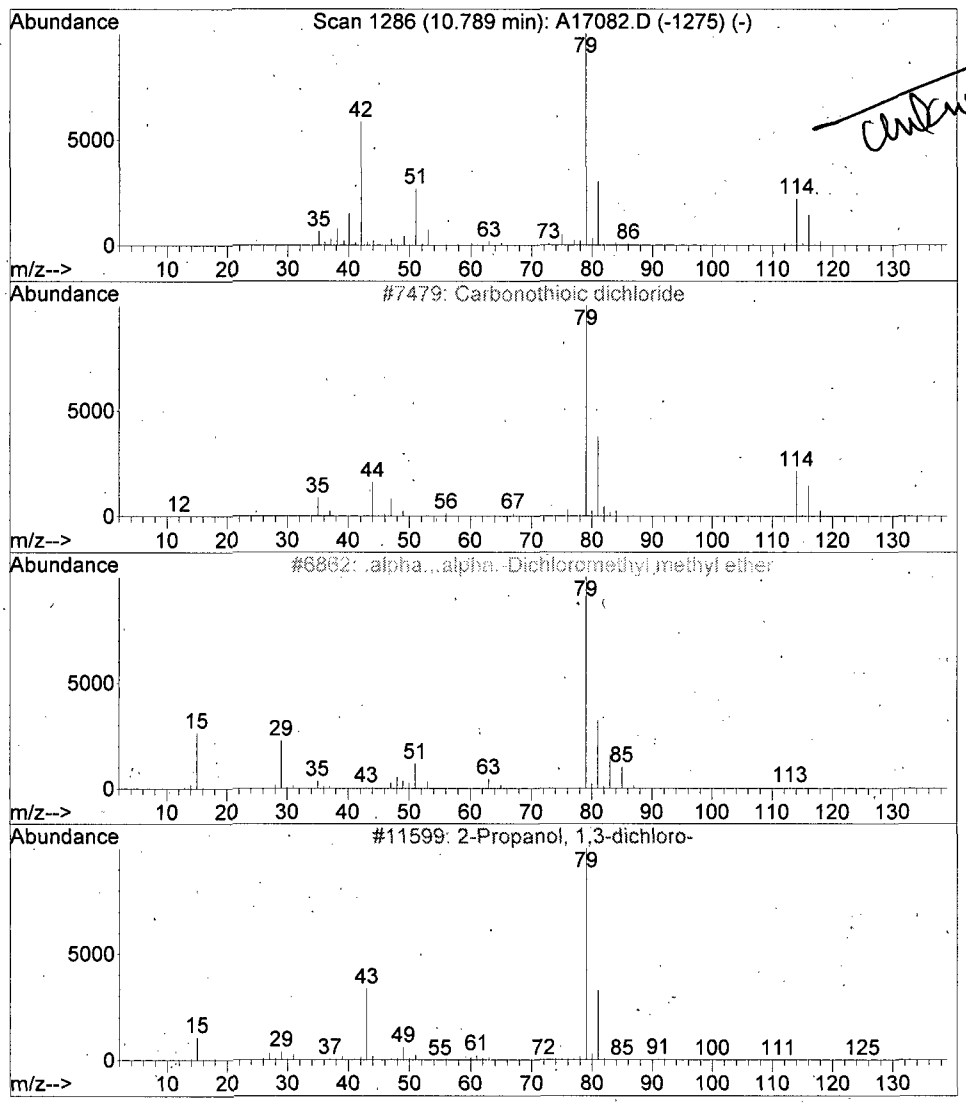
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

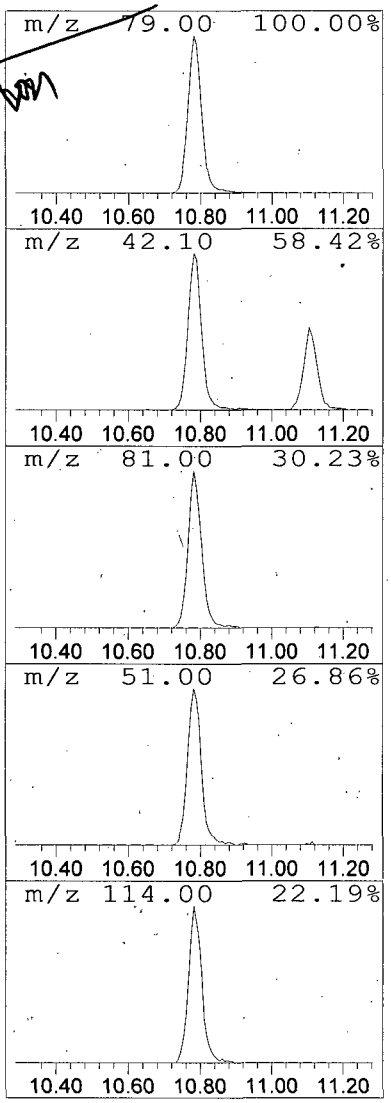
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	11.18 ug/L	6583370	1,4-Difluorobenzene	9.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	38
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	37
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	25
4	Cyclopropane	42	C3H6	000075-19-4	9
5	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





Chlorocarbon

0771

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17082.D
Acq On : 11/28/08 10:06 Operator: SB
Sample : VBLK31 Inst : A-5973
Misc : VBLK31 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.79	11.2	ug/L	6583370	1	9.01	2943070	5.0

0772

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK89

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19499

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK89

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19499

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK89

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19499

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	870	J
02		Unknown-02	2.25	11	J
03		Unknown-03	9.83	8.3	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19499.D
Acq On : 11/25/08 22:10
Sample : VBLK89
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 12/1/08

Quant Time: Nov 28 14:13:17 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	3936197	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.63	117	3550197	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.72	152	1406829	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2685149	4.79	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 95.80%			
7) Chloroethane-d5	2.39	69	1199070	4.72	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 94.40%			
10) 1,1-Dichloroethene-d2	3.12	63	4739148	4.21	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 84.20%			
21) 2-Butanone-d5	6.66	46	2161736	36.75	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 73.50%			
24) Chloroform-d	6.25	84	4987056	4.48	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 89.60%			
26) 1,2-Dichloroethane-d4	7.28	65	2483710	4.96	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 99.20%			
32) Benzene-d6	7.06	84	10575948	4.66	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 93.20%			
36) 1,2-Dichloropropane-d6	8.63	67	3189019	4.65	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 93.00%			
41) Toluene-d8	10.17	98	9699575	4.73	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 94.60%			
43) trans-1,3-Dichloropropene-	10.90	79	2825249	4.46	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 89.20%			
47) 2-Hexanone-d5	12.20	63	1588735	36.72	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 73.44%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1727825	4.55	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 91.00%			
63) 1,2-Dichlorobenzene-d4	17.47	152	2723685	4.96	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 99.20%			

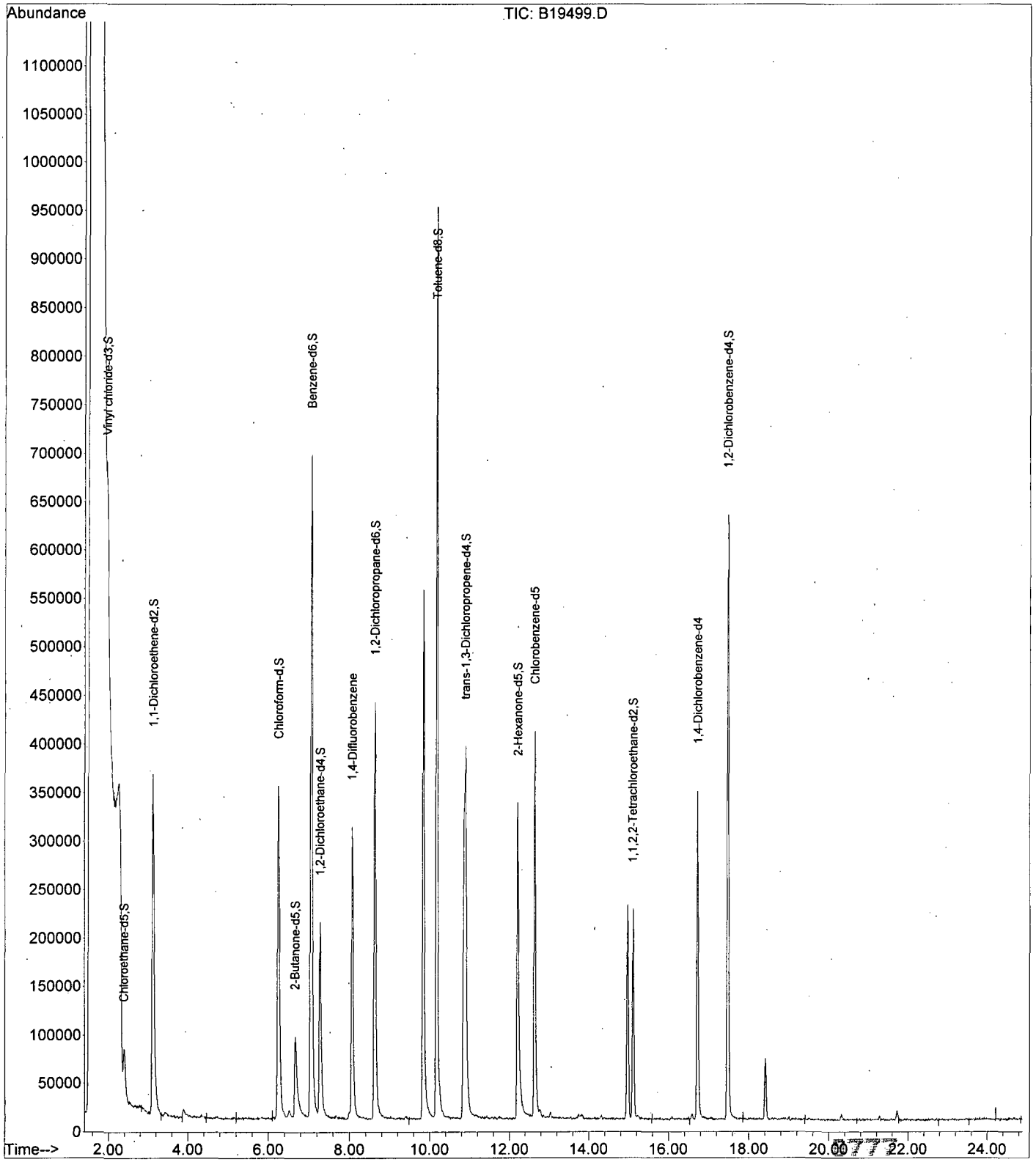
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 28 14:13:17 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Tue Nov 25 21:50:24 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	4	26	104	BV	17177735	1745825779	100.00%	84.868%
2	2.136	104	106	112	VV	331420	10775413	0.62%	0.524%
3	2.200	112	115	116	VV	327596	6095973	0.35%	0.296%
4	2.250	116	122	137	VV	341376	21961364	1.26%	1.068%
5	2.386	137	141	168	VV	68907	3981913	0.23%	0.194%
6	2.593	168	170	175	VV 5	11396	314074	0.02%	0.015%
7	2.665	175	180	182	VV 4	11903	307790	0.02%	0.015%
8	2.686	182	183	185	VV	11223	152582	0.01%	0.007%
9	2.722	185	188	190	VV 2	11461	210096	0.01%	0.010%
10	2.751	190	192	194	VV 2	10792	155311	0.01%	0.008%
11	2.779	194	196	197	VV 2	12025	162455	0.01%	0.008%
12	2.801	197	199	202	VV 3	11468	223948	0.01%	0.011%
13	2.836	202	204	215	VV 2	10573	486366	0.03%	0.024%
14	2.922	215	216	218	VV 2	7464	90986	0.01%	0.004%
15	2.951	218	220	225	VV 4	6661	165942	0.01%	0.008%
16	3.008	225	228	230	VV 2	6551	118521	0.01%	0.006%
17	3.122	230	244	264	VV	354045	13386245	0.77%	0.651%
18	3.273	264	265	276	VV 5	9326	271265	0.02%	0.013%
19	3.416	276	285	289	VV 6	6883	284177	0.02%	0.014%
20	3.459	289	291	298	VV 5	6626	202138	0.01%	0.010%
21	3.516	298	299	305	VV 2	4169	100501	0.01%	0.005%
22	3.573	305	307	313	VV 3	4487	116010	0.01%	0.006%
23	3.630	313	315	323	VV 4	4180	140677	0.01%	0.007%
24	3.730	323	329	332	VV 3	4370	126182	0.01%	0.006%
25	3.766	332	334	335	VV	2887	31756	0.00%	0.002%
26	3.816	335	341	342	VV 2	3795	98921	0.01%	0.005%
27	3.837	342	344	345	VV 2	3879	35024	0.00%	0.002%
28	3.880	345	350	359	PV 5	11424	496712	0.03%	0.024%
29	3.959	359	361	369	VV 6	6458	218695	0.01%	0.011%
30	4.038	369	372	377	VV 2	5285	142438	0.01%	0.007%
31	4.081	377	378	380	VV	3773	48791	0.00%	0.002%
32	4.131	380	385	387	VV 4	4750	111527	0.01%	0.005%
33	4.159	387	389	392	VV 3	5005	89982	0.01%	0.004%
34	4.195	392	394	396	VV 3	3744	51984	0.00%	0.003%
35	4.231	396	399	405	VV 3	4074	135272	0.01%	0.007%
36	4.295	405	408	409	VV 2	4197	63074	0.00%	0.003%
37	4.324	409	412	419	VV 4	6221	170226	0.01%	0.008%
38	4.388	419	421	425	VV 2	4188	89593	0.01%	0.004%
39	4.424	425	426	435	VV	4140	123140	0.01%	0.006%
40	4.510	435	438	441	VV 2	3061	61874	0.00%	0.003%
41	4.545	441	443	445	VV 2	3384	49824	0.00%	0.002%
42	4.574	445	447	451	VV 2	2879	61433	0.00%	0.003%
43	4.645	451	457	460	VV 3	3184	86424	0.00%	0.004%
44	4.681	460	462	464	VV 2	3884	58010	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.724	464	468	470	VV	4330	76532	0.00%	0.004%
46	4.746	470	471	473	VV	3658	43691	0.00%	0.002%
47	4.781	473	476	479	VV 2	2991	71074	0.00%	0.003%
48	4.817	479	481	483	VV 2	3308	39679	0.00%	0.002%
49	4.846	483	485	487	VV	2850	45128	0.00%	0.002%
50	4.867	487	488	492	VV 2	2235	39382	0.00%	0.002%
51	4.939	492	498	499	VV 2	3668	74117	0.00%	0.004%
52	4.982	499	504	505	VV	2989	66679	0.00%	0.003%
53	5.010	505	508	516	VV 3	2612	101561	0.01%	0.005%
54	5.082	516	518	525	VV 2	2962	90767	0.01%	0.004%
55	5.160	525	529	539	VV 2	3435	156887	0.01%	0.008%
56	5.253	539	542	544	VV 2	3390	54705	0.00%	0.003%
57	5.275	544	545	551	VV 2	2981	77969	0.00%	0.004%
58	5.346	551	555	559	VV 2	3731	90798	0.01%	0.004%
59	5.446	559	569	571	VV 2	3753	136000	0.01%	0.007%
60	5.468	571	572	574	VV	2726	35615	0.00%	0.002%
61	5.511	574	578	581	VV 2	4084	82909	0.00%	0.004%
62	5.568	581	586	595	VV 3	3262	152445	0.01%	0.007%
63	5.704	595	605	611	VV 2	2721	156624	0.01%	0.008%
64	5.761	611	613	615	VV	3142	38460	0.00%	0.002%
65	5.790	615	617	618	VV 2	2913	41140	0.00%	0.002%
66	5.818	618	621	626	VV 2	3824	113732	0.01%	0.006%
67	5.875	626	629	637	VV 2	3239	126028	0.01%	0.006%
68	5.954	637	640	643	VV 2	3137	65193	0.00%	0.003%
69	5.990	643	645	649	VV 2	3613	78690	0.00%	0.004%
70	6.068	649	656	661	VV	3261	149681	0.01%	0.007%
71	6.133	661	665	669	VV 2	4508	104550	0.01%	0.005%
72	6.247	669	681	705	VV	344870	12873588	0.74%	0.626%
73	6.512	705	718	726	VV 7	11389	638750	0.04%	0.031%
74	6.576	726	727	729	VV 2	5593	66705	0.00%	0.003%
75	6.662	729	739	763	VV 2	87377	4470674	0.26%	0.217%
76	6.841	763	764	769	VV 4	9247	225472	0.01%	0.011%
77	6.883	769	770	781	VV 6	6908	295345	0.02%	0.014%
78	7.055	781	794	815	VV	687651	23431688	1.34%	1.139%
79	7.277	815	825	846	VV	202659	7660394	0.44%	0.372%
80	7.441	846	848	851	VV	6870	149099	0.01%	0.007%
81	7.477	851	853	856	VV 4	6733	100444	0.01%	0.005%
82	7.506	856	857	861	VV 3	5207	107853	0.01%	0.005%
83	7.548	861	863	868	VV 3	4893	108637	0.01%	0.005%
84	7.606	868	871	873	VV 2	5008	94924	0.01%	0.005%
85	7.663	873	879	882	VV 5	6165	195508	0.01%	0.010%
86	7.699	882	884	886	VV 2	4248	52645	0.00%	0.003%
87	7.720	886	887	889	VV	4779	59428	0.00%	0.003%
88	7.749	889	891	897	VV 2	4929	117284	0.01%	0.006%
89	7.806	897	899	900	VV	4470	57588	0.00%	0.003%
90	7.834	900	903	907	VV 2	4705	98212	0.01%	0.005%
91	7.877	907	909	911	VV 2	4168	52572	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.906	911	913	915	VV	2950	44926	0.00%	0.002%
93	8.070	915	936	953	VV	302228	10001688	0.57%	0.486%
94	8.206	953	955	958	VV 2	6538	119535	0.01%	0.006%
95	8.256	958	962	965	VV 3	5693	131378	0.01%	0.006%
96	8.285	965	966	970	VV 3	4611	101176	0.01%	0.005%
97	8.328	970	972	974	VV 2	4896	61505	0.00%	0.003%
98	8.356	974	976	979	VV	4625	83276	0.00%	0.004%
99	8.421	979	985	988	VV 2	4396	129909	0.01%	0.006%
100	8.499	988	996	998	VV 3	3670	127445	0.01%	0.006%
101	8.628	998	1014	1047	VV	428685	14670065	0.84%	0.713%
102	8.907	1047	1053	1056	VV 3	4981	166616	0.01%	0.008%
103	8.971	1056	1062	1065	VV 2	4323	156545	0.01%	0.008%
104	9.014	1065	1068	1071	VV 3	5684	107843	0.01%	0.005%
105	9.057	1071	1074	1077	VV 3	4179	98123	0.01%	0.005%
106	9.093	1077	1079	1086	VV 3	3893	106813	0.01%	0.005%
107	9.222	1086	1097	1099	VV 2	4326	194605	0.01%	0.009%
108	9.243	1099	1100	1104	VV 2	4058	70926	0.00%	0.003%
109	9.293	1104	1107	1111	VV 2	4063	108193	0.01%	0.005%
110	9.400	1111	1122	1129	VV 6	6245	304405	0.02%	0.015%
111	9.465	1129	1131	1135	VV 2	4166	66081	0.00%	0.003%
112	9.500	1135	1136	1144	VV 4	3580	140753	0.01%	0.007%
113	9.572	1144	1146	1148	VV	3736	50088	0.00%	0.002%
114	9.601	1148	1150	1155	VV 2	4249	104140	0.01%	0.005%
115	9.651	1155	1157	1161	VV 2	3634	76296	0.00%	0.004%
116	9.708	1161	1165	1168	VV 2	3540	87551	0.01%	0.004%
117	9.736	1168	1169	1171	VV 2	3717	45301	0.00%	0.002%
118	9.837	1171	1183	1205	VV	543829	16626036	0.95%	0.808%
119	10.001	1205	1206	1214	VV 4	9107	271157	0.02%	0.013%
120	10.073	1214	1216	1218	VV 2	6244	83263	0.00%	0.004%
121	10.173	1218	1230	1260	VV	933934	27213754	1.56%	1.323%
122	10.409	1260	1263	1265	VV 3	5899	115228	0.01%	0.006%
123	10.459	1265	1270	1274	VV 3	6022	185773	0.01%	0.009%
124	10.502	1274	1276	1279	VV	5084	96295	0.01%	0.005%
125	10.537	1279	1281	1285	VV 2	4210	99115	0.01%	0.005%
126	10.580	1285	1287	1293	VV 4	5042	161799	0.01%	0.008%
127	10.645	1293	1296	1298	VV 2	4498	76187	0.00%	0.004%
128	10.680	1298	1301	1304	VV 2	5012	124950	0.01%	0.006%
129	10.730	1304	1308	1310	VV 3	4435	100600	0.01%	0.005%
130	10.888	1310	1330	1354	VV 2	383166	20359543	1.17%	0.990%
131	11.074	1354	1356	1364	VV 3	8349	306666	0.02%	0.015%
132	11.152	1364	1367	1376	VV 4	7680	322419	0.02%	0.016%
133	11.224	1376	1377	1385	VV 4	5973	218483	0.01%	0.011%
134	11.310	1385	1389	1393	VV 4	5738	162227	0.01%	0.008%
135	11.352	1393	1395	1399	VV 3	4436	107133	0.01%	0.005%
136	11.424	1399	1405	1410	VV 3	6613	238719	0.01%	0.012%
137	11.474	1410	1412	1416	VV 2	4927	92309	0.01%	0.004%
138	11.567	1416	1425	1429	VV 3	5313	249713	0.01%	0.012%
139	11.617	1429	1432	1434	VV	5541	103791	0.01%	0.005%

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.646	1434	1436	1442	VV	2	5254	125815	0.01%	0.006%
141	11.710	1442	1445	1446	VV	2	4545	74554	0.00%	0.004%
142	11.746	1446	1450	1460	VV	5	6170	277143	0.02%	0.013%
143	11.853	1460	1465	1469	VV	2	3971	140563	0.01%	0.007%
144	11.896	1469	1471	1472	VV	2	4333	49007	0.00%	0.002%
145	11.932	1472	1476	1478	VV		5096	109370	0.01%	0.005%
146	11.953	1478	1479	1482	VV	2	4052	61925	0.00%	0.003%
147	12.003	1482	1486	1492	VV	2	4558	162726	0.01%	0.008%
148	12.060	1492	1494	1496	VV	2	4256	62245	0.00%	0.003%
149	12.089	1496	1498	1503	VV	2	4989	123338	0.01%	0.006%
150	12:203	1503	1514	1541	VV	2	329429	11803535	0.68%	0.574%
151	12.403	1541	1542	1544	VV		9806	133617	0.01%	0.006%
152	12.432	1544	1546	1548	VV		9302	157311	0.01%	0.008%
153	12.468	1548	1551	1559	VV	4	8754	341952	0.02%	0.017%
154	12.532	1559	1560	1564	VV	3	7651	165506	0.01%	0.008%
155	12.632	1564	1574	1588	VV		407707	11773280	0.67%	0.572%
156	12.761	1588	1592	1601	VV	5	12980	563218	0.03%	0.027%
157	12.854	1601	1605	1610	VV	3	7776	244328	0.01%	0.012%
158	12.911	1610	1613	1614	VV	3	5890	93909	0.01%	0.005%
159	12.954	1614	1619	1621	VV	3	6309	168374	0.01%	0.008%
160	13.033	1621	1630	1635	VV	4	10942	405926	0.02%	0.020%
161	13.076	1635	1636	1642	VV	2	6133	148646	0.01%	0.007%
162	13.133	1642	1644	1657	VV	5	5432	320331	0.02%	0.016%
163	13.240	1657	1659	1661	VV		5483	72278	0.00%	0.004%
164	13.269	1661	1663	1668	VV	3	5439	145700	0.01%	0.007%
165	13.340	1668	1673	1678	VV	4	5399	199284	0.01%	0.010%
166	13.433	1678	1686	1688	VV	4	4982	180455	0.01%	0.009%
167	13.462	1688	1690	1692	VV		5174	89321	0.01%	0.004%
168	13.483	1692	1693	1695	VV		4400	53520	0.00%	0.003%
169	13.540	1695	1701	1705	VV	2	5796	193487	0.01%	0.009%
170	13.605	1705	1710	1713	VV	4	5015	139186	0.01%	0.007%
171	13.648	1713	1716	1718	VV	2	4424	84830	0.00%	0.004%
172	13.691	1718	1722	1725	VV		5582	161222	0.01%	0.008%
173	13.741	1725	1729	1732	VV	3	8767	192564	0.01%	0.009%
174	13.783	1732	1735	1737	VV	2	7459	157704	0.01%	0.008%
175	13.819	1737	1740	1744	VV	5	8164	227561	0.01%	0.011%
176	13.862	1744	1746	1748	VV		5874	73679	0.00%	0.004%
177	13.919	1748	1754	1756	VV	3	4824	143737	0.01%	0.007%
178	13.948	1756	1758	1760	VV	2	4718	70256	0.00%	0.003%
179	13.977	1760	1762	1770	VV	2	4533	173667	0.01%	0.008%
180	14.041	1770	1771	1774	VV	2	4630	74487	0.00%	0.004%
181	14.084	1774	1777	1782	VV	3	4441	137952	0.01%	0.007%
182	14.134	1782	1784	1788	VV	3	5300	108123	0.01%	0.005%
183	14.177	1788	1790	1793	VV	2	4543	87377	0.01%	0.004%
184	14.313	1793	1809	1814	VV	3	7871	432718	0.02%	0.021%
185	14.377	1814	1818	1819	VV	3	4974	91961	0.01%	0.004%
186	14.398	1819	1821	1824	VV		5206	100606	0.01%	0.005%

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LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.448	1824	1828	1830	VV		4516	94651	0.01%	0.005%
188	14.491	1830	1834	1836	VV	2	4608	105940	0.01%	0.005%
189	14.520	1836	1838	1840	VV	2	4556	76118	0.00%	0.004%
190	14.549	1840	1842	1845	VV	2	4687	76969	0.00%	0.004%
191	14.577	1845	1846	1848	VV	2	5284	69582	0.00%	0.003%
192	14.613	1848	1851	1854	VV		5146	99804	0.01%	0.005%
193	14.649	1854	1856	1857	VV	2	3633	49077	0.00%	0.002%
194	14.684	1857	1861	1863	VV	2	4860	101773	0.01%	0.005%
195	14.713	1863	1865	1870	VV	2	4456	122290	0.01%	0.006%
196	14.785	1870	1875	1885	VV	2	4399	258288	0.01%	0.013%
197	14.892	1885	1890	1891	VV	2	4781	113471	0.01%	0.006%
198	14.970	1891	1901	1911	VV		226071	6560194	0.38%	0.319%
199	15.106	1911	1920	1930	VV		220733	6078494	0.35%	0.295%
200	15.228	1930	1937	1949	VV	5	7882	480880	0.03%	0.023%
201	15.328	1949	1951	1954	VV	2	5897	107067	0.01%	0.005%
202	15.364	1954	1956	1959	VV	2	4919	92982	0.01%	0.005%
203	15.428	1959	1965	1969	VV	2	5032	188616	0.01%	0.009%
204	15.464	1969	1970	1976	VV		4707	119449	0.01%	0.006%
205	15.514	1976	1977	1980	VV		5375	78906	0.00%	0.004%
206	15.550	1980	1982	1988	VV		5035	166452	0.01%	0.008%
207	15.635	1988	1994	1998	VV		4953	164634	0.01%	0.008%
208	15.707	1998	2004	2006	VV	2	5219	144332	0.01%	0.007%
209	15.750	2006	2010	2011	VV	2	4984	103430	0.01%	0.005%
210	15.778	2011	2014	2018	VV	2	5724	136907	0.01%	0.007%
211	15.843	2018	2023	2026	VV	3	4799	123598	0.01%	0.006%
212	15.871	2026	2027	2031	VV	2	4416	85052	0.00%	0.004%
213	15.929	2031	2035	2043	VV	2	4883	217472	0.01%	0.011%
214	15.993	2043	2044	2047	VV		4135	68366	0.00%	0.003%
215	16.050	2047	2052	2055	VV		5301	140075	0.01%	0.007%
216	16.079	2055	2056	2060	VV		7018	123773	0.01%	0.006%
217	16.122	2060	2062	2067	VV	2	4797	138161	0.01%	0.007%
218	16.172	2067	2069	2071	VV	2	4834	75304	0.00%	0.004%
219	16.200	2071	2073	2076	VV		5143	84457	0.00%	0.004%
220	16.257	2076	2081	2085	VV		5444	178573	0.01%	0.009%
221	16.300	2085	2087	2089	VV	2	4964	74965	0.00%	0.004%
222	16.322	2089	2090	2092	VV		4426	57972	0.00%	0.003%
223	16.350	2092	2094	2096	VV		4581	80306	0.00%	0.004%
224	16.386	2096	2099	2103	VV	3	5160	117193	0.01%	0.006%
225	16.429	2103	2105	2107	VV	2	4898	76135	0.00%	0.004%
226	16.458	2107	2109	2111	VV	2	5491	91803	0.01%	0.004%
227	16.501	2111	2115	2117	VV	2	6262	110210	0.01%	0.005%
228	16.529	2117	2119	2121	PV		5199	52189	0.00%	0.003%
229	16.579	2121	2126	2135	VV	5	9876	403972	0.02%	0.020%
230	16.715	2135	2145	2162	VV		337847	9384468	0.54%	0.456%
231	16.851	2162	2164	2174	VV	4	7085	315047	0.02%	0.015%
232	16.930	2174	2175	2188	VV	4	5777	297400	0.02%	0.014%
233	17.044	2188	2191	2193	VV		6758	106376	0.01%	0.005%
234	17.073	2193	2195	2197	VV		6155	95569	0.01%	0.005%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	17.094	2197	2198	2200	VV		5254	63398	0.00%	0.003%
236	17.123	2200	2202	2204	VV	2	5237	82593	0.00%	0.004%
237	17.187	2204	2211	2215	VV	3	5001	199119	0.01%	0.010%
238	17.237	2215	2218	2222	VV		5010	125914	0.01%	0.006%
239	17.301	2222	2227	2231	VV	2	5111	178789	0.01%	0.009%
240	17.344	2231	2233	2236	VV	2	4706	105931	0.01%	0.005%
241	17.380	2236	2238	2241	VV		5078	89084	0.01%	0.004%
242	17.473	2241	2251	2271	VV		631582	17430641	1.00%	0.847%
243	17.623	2271	2272	2275	VV	2	7304	105178	0.01%	0.005%
244	17.652	2275	2276	2280	VV	4	6489	139863	0.01%	0.007%
245	17.695	2280	2282	2284	VV	2	5826	84650	0.00%	0.004%
246	17.745	2284	2289	2291	VV		5876	140571	0.01%	0.007%
247	17.780	2291	2294	2296	VV		6182	115713	0.01%	0.006%
248	17.816	2296	2299	2302	VV	2	5528	112193	0.01%	0.005%
249	17.852	2302	2304	2306	VV		10509	89791	0.01%	0.004%
250	17.881	2306	2308	2315	VV		5431	181573	0.01%	0.009%
251	17.945	2315	2317	2320	VV	2	4900	96178	0.01%	0.005%
252	17.988	2320	2323	2325	VV	2	5938	107131	0.01%	0.005%
253	18.016	2325	2327	2328	VV	2	5402	69464	0.00%	0.003%
254	18.045	2328	2331	2334	VV	3	5849	130417	0.01%	0.006%
255	18.088	2334	2337	2339	VV	2	5221	97822	0.01%	0.005%
256	18.117	2339	2341	2345	VV	3	5987	127451	0.01%	0.006%
257	18.195	2345	2352	2353	VV	2	5408	146210	0.01%	0.007%
258	18.224	2353	2356	2357	VV	2	4803	67395	0.00%	0.003%
259	18.252	2357	2360	2362	VV	2	5682	113655	0.01%	0.006%
260	18.288	2362	2365	2367	VV	2	4942	87509	0.01%	0.004%
261	18.410	2367	2382	2394	VV	2	66589	2221507	0.13%	0.108%
262	18.503	2394	2395	2400	VV	3	4865	122745	0.01%	0.006%
263	18.574	2400	2405	2408	VV	2	5865	174134	0.01%	0.008%
264	18.610	2408	2410	2411	VV		5019	57776	0.00%	0.003%
265	18.631	2411	2413	2420	VV	3	5801	197463	0.01%	0.010%
266	18.696	2420	2422	2424	VV	2	4871	74268	0.00%	0.004%
267	18.746	2424	2429	2433	VV	4	5105	166098	0.01%	0.008%
268	18.803	2433	2437	2438	VV	2	5223	111657	0.01%	0.005%
269	18.824	2438	2440	2443	VV	3	5350	99785	0.01%	0.005%
270	18.860	2443	2445	2449	VV	2	5927	135665	0.01%	0.007%
271	18.910	2449	2452	2459	VV	3	5968	194412	0.01%	0.009%
272	18.996	2459	2464	2467	VV		7150	187617	0.01%	0.009%
273	19.032	2467	2469	2471	VV		4035	49822	0.00%	0.002%
274	19.067	2471	2474	2477	VV		5483	118496	0.01%	0.006%
275	19.096	2477	2478	2480	VV	2	5541	70431	0.00%	0.003%
276	19.125	2480	2482	2485	VV	2	5140	104265	0.01%	0.005%
277	19.168	2485	2488	2491	VV	3	5937	115564	0.01%	0.006%
278	19.196	2491	2492	2496	VV	3	4930	97183	0.01%	0.005%
279	19.239	2496	2498	2500	VV		5458	77249	0.00%	0.004%
280	19.268	2500	2502	2510	VV	2	5243	185479	0.01%	0.009%
281	19.375	2510	2517	2519	VV		5816	183351	0.01%	0.009%

6583

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.404	2519	2521	2529	VV		7673	196226	0.01%	0.010%
283	19.497	2529	2534	2543	VV	2	5989	308849	0.02%	0.015%
284	19.575	2543	2545	2552	VV	2	5157	174749	0.01%	0.008%
285	19.661	2552	2557	2558	VV	3	4933	117694	0.01%	0.006%
286	19.690	2558	2561	2562	VV		5211	84794	0.00%	0.004%
287	19.711	2562	2564	2566	VV		5246	73750	0.00%	0.004%
288	19.732	2566	2567	2575	VV		5439	165181	0.01%	0.008%
289	19.804	2575	2577	2581	VV	4	4870	109297	0.01%	0.005%
290	19.868	2581	2586	2592	VV	3	5703	223029	0.01%	0.011%
291	19.926	2592	2594	2596	VV	2	5250	79617	0.00%	0.004%
292	19.947	2596	2597	2599	VV		5468	69495	0.00%	0.003%
293	19.976	2599	2601	2605	VV	3	5583	130320	0.01%	0.006%
294	20.026	2605	2608	2613	VV		5279	142098	0.01%	0.007%
295	20.076	2613	2615	2617	VV	2	5404	85168	0.00%	0.004%
296	20.097	2617	2618	2619	VV		4757	49839	0.00%	0.002%
297	20.119	2619	2621	2623	VV	2	5446	73810	0.00%	0.004%
298	20.147	2623	2625	2631	VV	3	5336	156154	0.01%	0.008%
299	20.212	2631	2634	2638	VV	2	4991	131910	0.01%	0.006%
300	20.312	2638	2648	2653	VV	5	10514	419503	0.02%	0.020%
301	20.369	2653	2656	2663	VV	2	5894	200876	0.01%	0.010%
302	20.433	2663	2665	2673	VV	3	4734	211546	0.01%	0.010%
303	20.512	2673	2676	2678	VV	2	5114	93732	0.01%	0.005%
304	20.548	2678	2681	2684	VV		4886	129119	0.01%	0.006%
305	20.598	2684	2688	2692	VV		5599	158020	0.01%	0.008%
306	20.655	2692	2696	2698	VV	2	5510	122373	0.01%	0.006%
307	20.705	2698	2703	2706	VV	2	5772	154900	0.01%	0.008%
308	20.741	2706	2708	2709	VV	2	4999	65464	0.00%	0.003%
309	20.769	2709	2712	2714	VV	2	5983	99437	0.01%	0.005%
310	20.812	2714	2718	2721	VV	2	5009	137464	0.01%	0.007%
311	20.855	2721	2724	2728	VV		6175	138129	0.01%	0.007%
312	20.898	2728	2730	2732	VV	2	5576	81005	0.00%	0.004%
313	20.962	2732	2739	2742	VV	2	6028	206190	0.01%	0.010%
314	20.998	2742	2744	2749	VV	3	5308	149087	0.01%	0.007%
315	21.041	2749	2750	2752	VV		6063	72195	0.00%	0.004%
316	21.084	2752	2756	2761	VV	3	5226	170776	0.01%	0.008%
317	21.163	2761	2767	2769	VV	3	5347	176440	0.01%	0.009%
318	21.227	2769	2776	2778	VV	3	5794	198224	0.01%	0.010%
319	21.270	2778	2782	2786	VV	4	9024	244333	0.01%	0.012%
320	21.320	2786	2789	2791	VV	2	6046	105763	0.01%	0.005%
321	21.348	2791	2793	2794	VV		5511	66695	0.00%	0.003%
322	21.370	2794	2796	2800	VV		6317	135072	0.01%	0.007%
323	21.420	2800	2803	2807	VV	2	5659	125410	0.01%	0.006%
324	21.463	2807	2809	2814	VV	2	5443	150417	0.01%	0.007%
325	21.513	2814	2816	2818	VV	2	5508	84859	0.00%	0.004%
326	21.563	2818	2823	2829	VV	2	6086	235384	0.01%	0.011%
327	21.627	2829	2832	2837	VV	2	5595	155015	0.01%	0.008%
328	21.713	2837	2844	2849	VV	4	14486	490938	0.03%	0.024%
329	21.763	2849	2851	2853	VV		6468	68474	0.00%	0.003%

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.799	2853	2856	2858	VV		5867	108079	0.01%	0.005%
331	21.820	2858	2859	2862	VV	2	5422	93836	0.01%	0.005%
332	21.856	2862	2864	2866	VV	2	4648	70720	0.00%	0.003%
333	21.913	2866	2872	2875	VV	2	6256	201874	0.01%	0.010%
334	21.949	2875	2877	2886	VV	3	5515	246945	0.01%	0.012%
335	22.035	2886	2889	2893	VV	3	5619	134005	0.01%	0.007%
336	22.099	2893	2898	2901	VV	3	5794	180195	0.01%	0.009%
337	22.142	2901	2904	2908	VV	2	5223	132276	0.01%	0.006%
338	22.199	2908	2912	2914	VV		6021	134597	0.01%	0.007%
339	22.249	2914	2919	2921	VV	2	6140	133000	0.01%	0.006%
340	22.271	2921	2922	2930	VV	2	5596	191074	0.01%	0.009%
341	22.342	2930	2932	2934	VV	2	5425	89640	0.01%	0.004%
342	22.371	2934	2936	2942	VV	2	5414	151061	0.01%	0.007%
343	22.450	2942	2947	2950	VV	2	6222	168265	0.01%	0.008%
344	22.478	2950	2951	2953	VV		5098	59765	0.00%	0.003%
345	22.507	2953	2955	2961	VV	4	6550	183628	0.01%	0.009%
346	22.564	2961	2963	2965	VV	2	5917	94354	0.01%	0.005%
347	22.593	2965	2967	2971	VV	3	6278	136658	0.01%	0.007%
348	22.628	2971	2972	2976	VV	2	5432	105267	0.01%	0.005%
349	22.714	2976	2984	2988	VV	3	6625	269207	0.02%	0.013%
350	22.757	2988	2990	2998	VV	3	5659	183602	0.01%	0.009%
351	22.829	2998	3000	3002	VV		5669	97815	0.01%	0.005%
352	22.864	3002	3005	3009	VV	2	6554	162741	0.01%	0.008%
353	22.907	3009	3011	3014	VV		5744	106290	0.01%	0.005%
354	22.950	3014	3017	3020	VV		5610	128155	0.01%	0.006%
355	22.986	3020	3022	3024	VV		5256	91436	0.01%	0.004%
356	23.022	3024	3027	3038	VV	2	5705	300281	0.02%	0.015%
357	23.122	3038	3041	3045	VV	3	6406	163810	0.01%	0.008%
358	23.157	3045	3046	3050	VV	2	5519	126176	0.01%	0.006%
359	23.200	3050	3052	3054	VV	2	6107	96560	0.01%	0.005%
360	23.236	3054	3057	3060	VV	2	5535	132703	0.01%	0.006%
361	23.300	3060	3066	3068	VV	2	5822	175364	0.01%	0.009%
362	23.329	3068	3070	3076	VV	3	6182	183488	0.01%	0.009%
363	23.415	3076	3082	3085	VV	2	6241	210947	0.01%	0.010%
364	23.458	3085	3088	3098	VV	2	6458	313541	0.02%	0.015%
365	23.544	3098	3100	3102	VV		7009	78921	0.00%	0.004%
366	23.658	3102	3116	3119	VV	3	6498	409452	0.02%	0.020%
367	23.701	3119	3122	3123	VV	2	7140	107742	0.01%	0.005%
368	23.751	3123	3129	3131	VV		6644	199530	0.01%	0.010%
369	23.779	3131	3133	3135	VV	2	6446	99979	0.01%	0.005%
370	23.808	3135	3137	3140	VV	2	7683	134966	0.01%	0.007%
371	23.851	3140	3143	3155	VV	4	6636	384405	0.02%	0.019%
372	23.951	3155	3157	3159	VV	2	6266	95670	0.01%	0.005%
373	23.980	3159	3161	3163	VV		7280	107100	0.01%	0.005%
374	24.001	3163	3164	3170	VV		6301	182149	0.01%	0.009%
375	24.058	3170	3172	3173	VV		6622	96101	0.01%	0.005%
376	24.080	3173	3175	3181	VV	4	6409	202569	0.01%	0.0[illegible]5

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

377	24.137	3181	3183	3187	VV 2	6211	152862	0.01%	0.007%
378	24.180	3187	3189	3191	VV	6184	80190	0.00%	0.004%
379	24.201	3191	3192	3198	VV	15501	226087	0.01%	0.011%
380	24.259	3198	3200	3202	VV 3	6550	105132	0.01%	0.005%
381	24.287	3202	3204	3208	VV 2	7163	170061	0.01%	0.008%
382	24.337	3208	3211	3219	VV 3	7378	264642	0.02%	0.013%
383	24.409	3219	3221	3223	VV 2	6731	120580	0.01%	0.006%
384	24.452	3223	3227	3229	VV 3	7093	160009	0.01%	0.008%
385	24.480	3229	3231	3233	VV 2	6806	95524	0.01%	0.005%
386	24.537	3233	3239	3241	VV	7769	191273	0.01%	0.009%
387	24.566	3241	3243	3252	VV 3	7272	319480	0.02%	0.016%
388	24.652	3252	3255	3257	VV 3	8297	156590	0.01%	0.008%
389	24.680	3257	3259	3262	VV 2	7979	155066	0.01%	0.008%
390	24.723	3262	3265	3271	VV 3	6946	238431	0.01%	0.012%
391	24.795	3271	3275	3281	VBA4	7253	262049	0.02%	0.013%

Sum of corrected areas: 2057110574

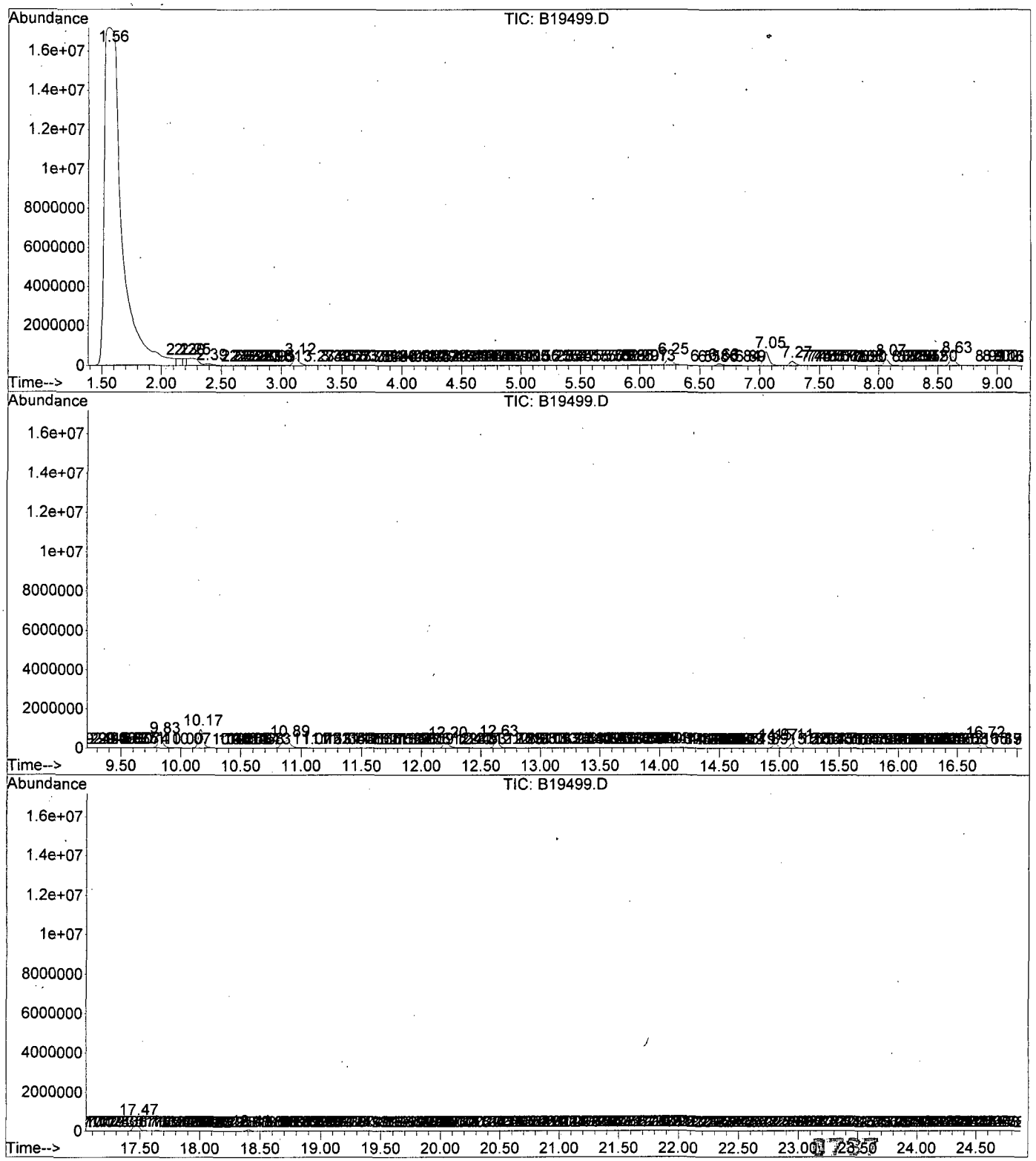
0786

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

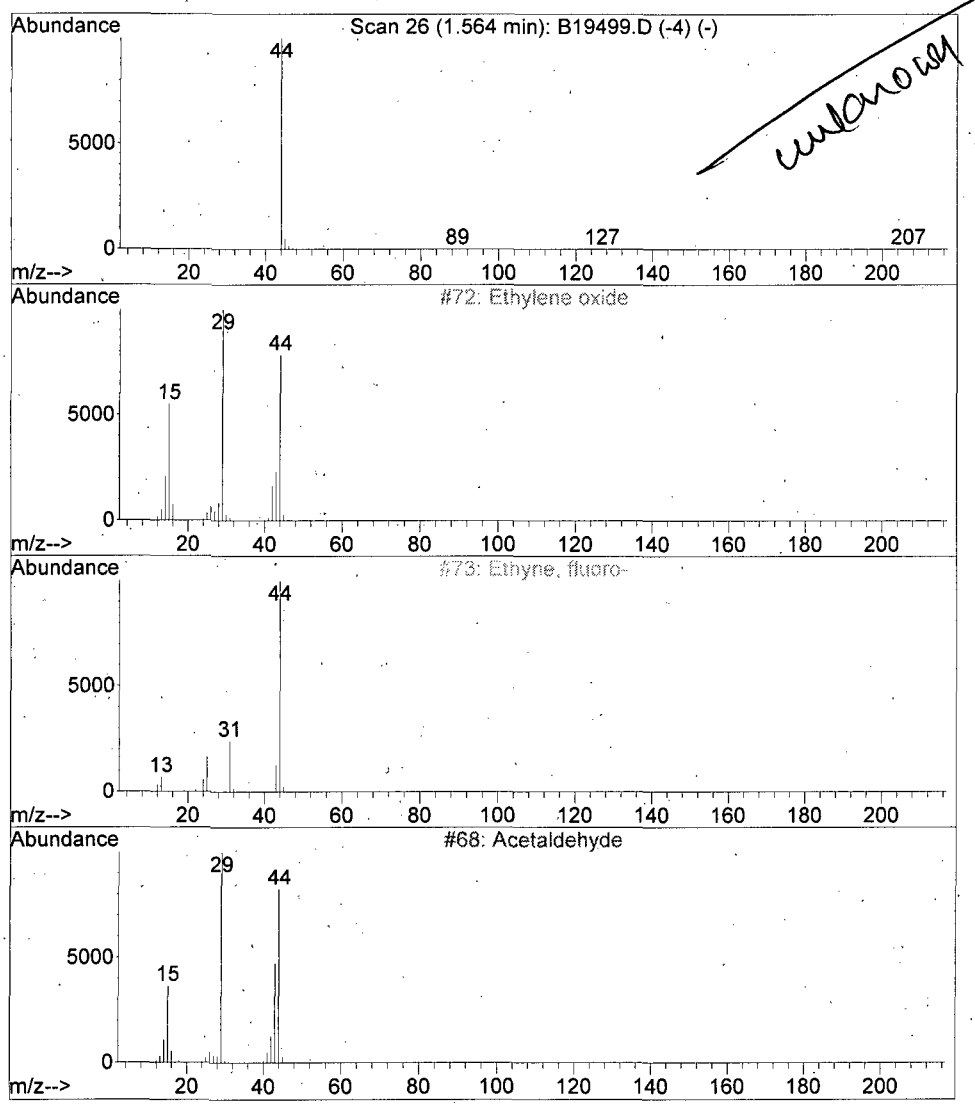
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

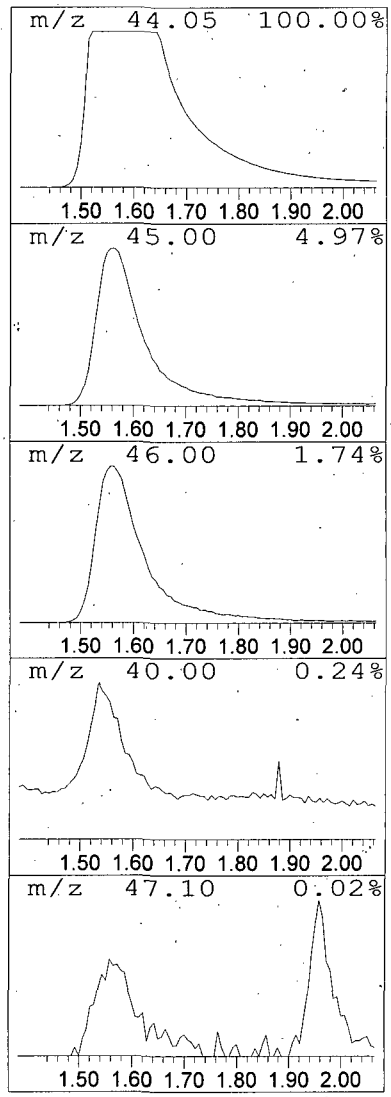
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	872.77 ug/L	1745830000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	3
2	Ethyne, fluoro-	44	C2HF	002713-09-9	3
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Ethylene oxide	44	C2H4O	000075-21-8	3





0788

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

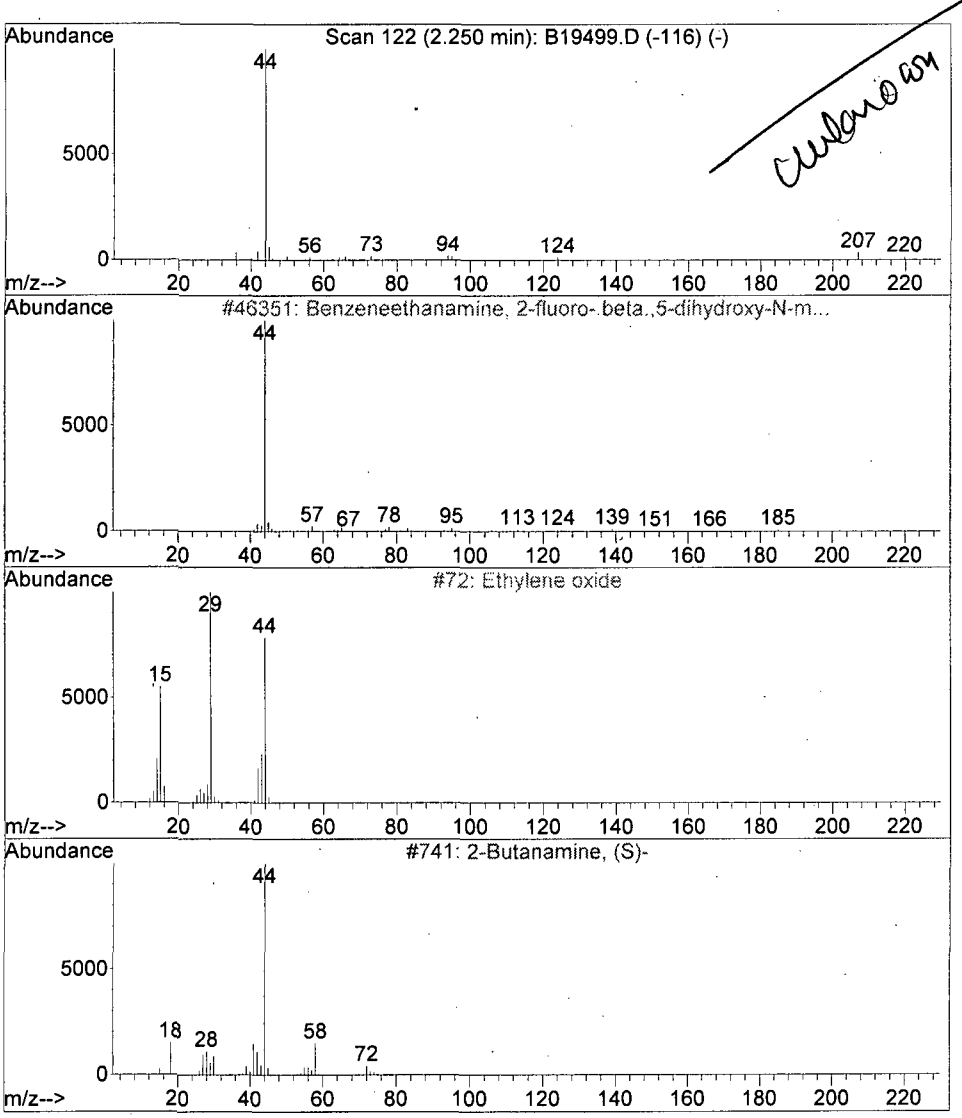
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

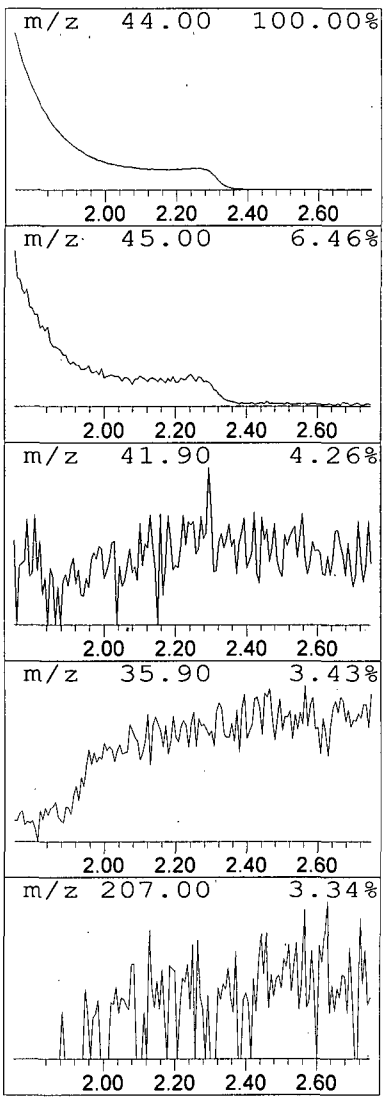
****

Peak Number 2 Benzeneethanamine, 2-fluoro... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.25	10.98 ug/L	21961400	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneethanamine, 2-fluoro-.bet...	185	C9H12FNO2	103439-07-2	9
2	Ethylene oxide	44	C2H4O	000075-21-8	4
3	2-Butanamine, (S)-	73	C4H11N	000513-49-5	4
4	sec-Butylamine	73	C4H11N	013952-84-6	4
5	Ethylene oxide	44	C2H4O	000075-21-8	4





0789

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

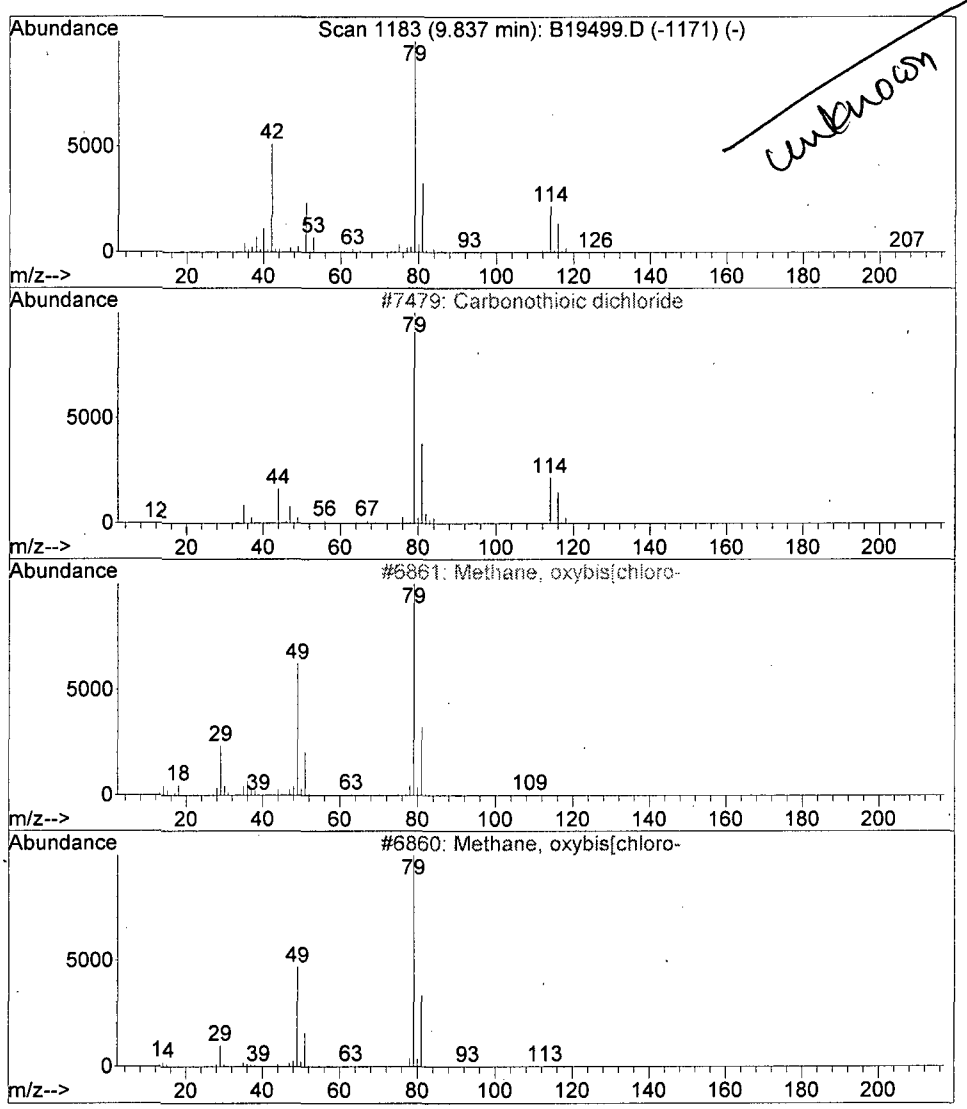
11/28/08

****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.83	8.31 ug/L	16626000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	49
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	38
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	32
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	32
5	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25



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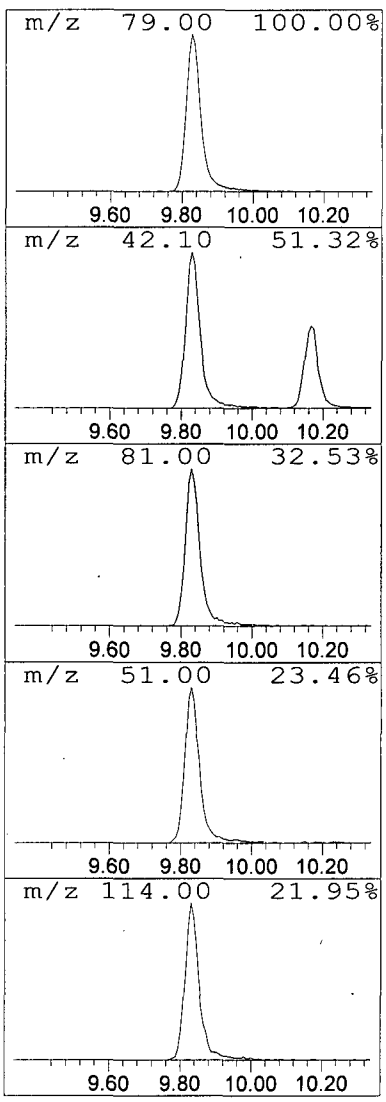


0790

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19499.D
Acq On : 11/25/08 22:10 Operator: SB
Sample : VBLK89 Inst : B-5973
Misc : VBLK89 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	872.8	ug/L	1745830000	1	8.07	10001700	5.0
Benzeneethanamine...	2.25	11.0	ug/L	21961400	1	8.07	10001700	5.0
Carbonothioic dic...	9.83	8.3	ug/L	16626000	1	8.07	10001700	5.0

0791

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK91

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19517

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK91

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19517

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VBLK91

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19517

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	950	J
02		Unknown-02	2.24	9.1	J
03		Unknown-03	9.84	8.7	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19517.D
Acq On : 11/26/08 09:35
Sample : VBLK91
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Operator: SB
Inst : B-5973

ORIGINAL
Case: 38051 SDG: F2XE4
Episode: S-2066 Init/date: 11/28/08

Quant Time: Nov 28 14:38:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration

Internal Standards			R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene			8.07	114	2634840	5.00	ug/L	0.00
28) Chlorobenzene-d5			12.64	117	2410493	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4			16.72	152	879931	5.00	ug/L	0.00
System Monitoring Compounds								
4) Vinyl chloride-d3			1.96	65	2372341	6.33	ug/L	0.00
Spiked Amount	5.000	Range 65 - 131			Recovery =	126.60%		
7) Chloroethane-d5			2.39	69	1068527	6.29	ug/L	0.00
Spiked Amount	5.000	Range 71 - 131			Recovery =	125.80%		
10) 1,1-Dichloroethene-d2			3.12	63	3905100	5.18	ug/L	0.00
Spiked Amount	5.000	Range 55 - 104			Recovery =	103.60%		
21) 2-Butanone-d5			6.66	46	1930219	49.03	ug/L	0.00
Spiked Amount	50.000	Range 49 - 155			Recovery =	98.06%		
24) Chloroform-d			6.25	84	4234014	5.69	ug/L	0.00
Spiked Amount	5.000	Range 78 - 121			Recovery =	113.80%		
26) 1,2-Dichloroethane-d4			7.28	65	2150847	6.42	ug/L	0.00
Spiked Amount	5.000	Range 78 - 129			Recovery =	128.40%		
32) Benzene-d6			7.06	84	8639866	5.61	ug/L	0.00
Spiked Amount	5.000	Range 77 - 124			Recovery =	112.20%		
36) 1,2-Dichloropropane-d6			8.63	67	2579640	5.53	ug/L	0.00
Spiked Amount	5.000	Range 79 - 124			Recovery =	110.60%		
41) Toluene-d8			10.17	98	7360954	5.28	ug/L	0.00
Spiked Amount	5.000	Range 77 - 121			Recovery =	105.60%		
43) trans-1,3-Dichloropropene-			10.90	79	2240427	5.21	ug/L	0.00
Spiked Amount	5.000	Range 73 - 121			Recovery =	104.20%		
47) 2-Hexanone-d5			12.20	63	1326108	45.14	ug/L	0.00
Spiked Amount	50.000	Range 28 - 135			Recovery =	90.28%		
57) 1,1,2,2-Tetrachloroethane-			15.11	84	1383265	5.37	ug/L	0.00
Spiked Amount	5.000	Range 73 - 125			Recovery =	107.40%		
63) 1,2-Dichlorobenzene-d4			17.47	152	1969528	5.73	ug/L	0.00
Spiked Amount	5.000	Range 80 - 131			Recovery =	114.60%		

Target Compounds	Qvalue

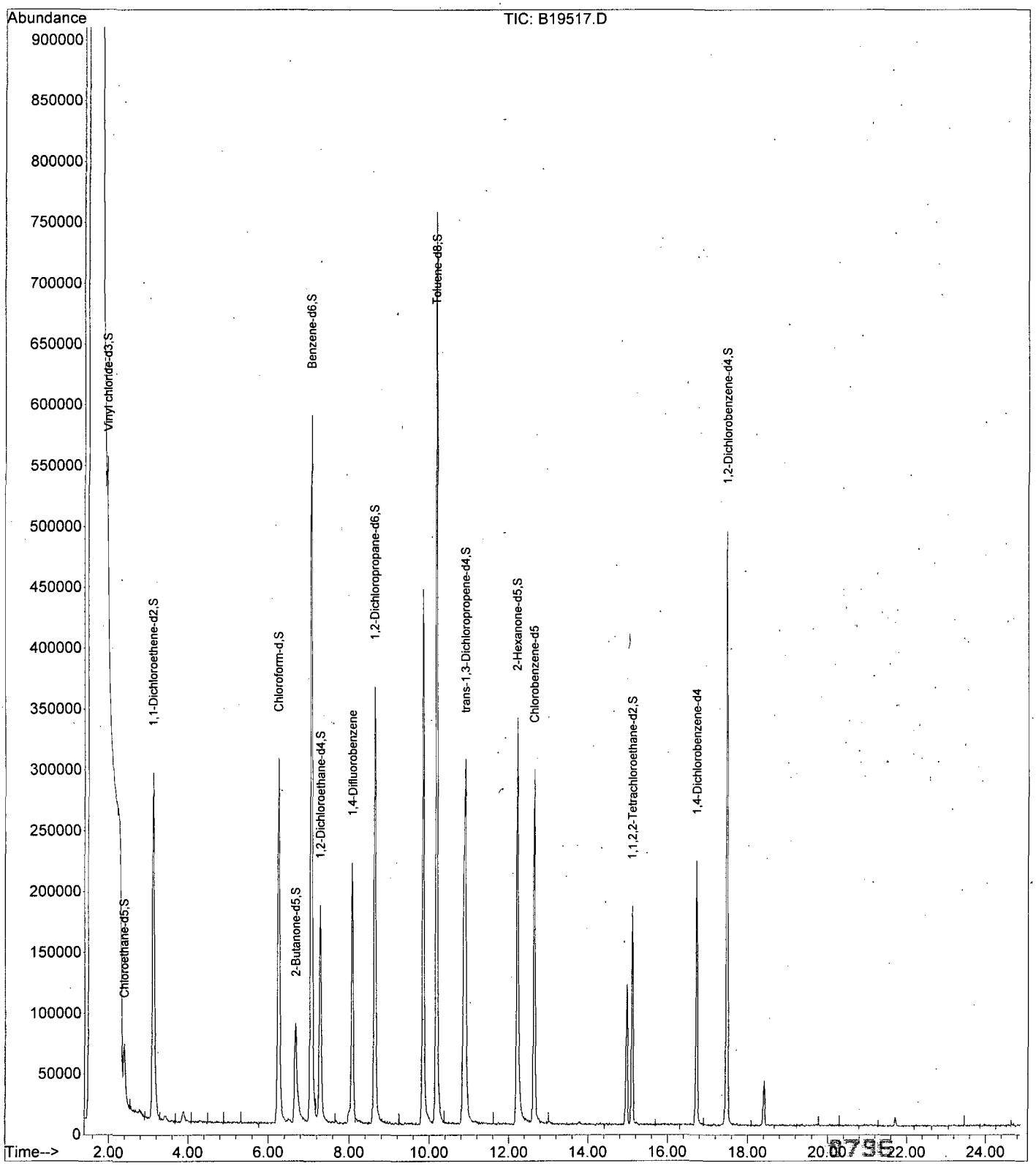
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0795

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 28 14:38:32 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.435	3	8	10	BV	991	8289	0.00%	0.000%
2	1.564	10	26	77	PV	17078042	1440193380	100.00%	83.344%
3	1.950	77	80	114	VV 2	542393	57091732	3.96%	3.304%
4	2.207	114	116	119	VV	262375	4654453	0.32%	0.269%
5	2.243	119	121	137	VV	257150	13837650	0.96%	0.801%
6	2.393	137	142	158	VV 2	62975	3115531	0.22%	0.180%
7	2.522	158	160	164	VV	13413	315994	0.02%	0.018%
8	2.565	164	166	171	VV 5	11748	286800	0.02%	0.017%
9	2.608	171	172	179	VV 6	9537	319885	0.02%	0.019%
10	2.686	179	183	184	VV 2	9870	186613	0.01%	0.011%
11	2.701	184	185	190	VV 5	8376	172861	0.01%	0.010%
12	2.786	190	197	200	VV 6	10508	353633	0.02%	0.020%
13	2.815	200	201	203	VV 2	9004	126679	0.01%	0.007%
14	2.844	203	205	208	VV 2	7923	133499	0.01%	0.008%
15	2.879	208	210	215	VV	6357	138939	0.01%	0.008%
16	2.929	215	217	226	VV	8192	198053	0.01%	0.011%
17	3.008	226	228	231	VV 2	4370	70104	0.00%	0.004%
18	3.123	231	244	273	VV	283615	10963417	0.76%	0.634%
19	3.344	273	275	279	VV 3	3583	67325	0.00%	0.004%
20	3.430	279	287	297	VV 5	5821	325530	0.02%	0.019%
21	3.516	297	299	302	VV 3	2455	35250	0.00%	0.002%
22	3.552	302	304	307	VV	2101	34555	0.00%	0.002%
23	3.594	307	310	317	VV 3	2742	79384	0.01%	0.005%
24	3.673	317	321	322	VV 2	2425	34376	0.00%	0.002%
25	3.695	322	324	330	PV	6014	75436	0.01%	0.004%
26	3.752	330	332	339	VV 3	1572	46645	0.00%	0.003%
27	3.816	339	341	342	VV	1910	16590	0.00%	0.001%
28	3.895	342	352	363	VV 5	9959	496475	0.03%	0.029%
29	3.988	363	365	371	VV 3	3292	83623	0.01%	0.005%
30	4.038	371	372	374	VV 2	2220	28890	0.00%	0.002%
31	4.066	374	376	378	VV 2	2724	31121	0.00%	0.002%
32	4.095	378	380	382	VV	7984	58751	0.00%	0.003%
33	4.124	382	384	391	VV 3	2691	80204	0.01%	0.005%
34	4.195	391	394	400	VV	3003	82878	0.01%	0.005%
35	4.252	400	402	404	VV 2	2993	36679	0.00%	0.002%
36	4.295	404	408	419	VV 5	3852	168275	0.01%	0.010%
37	4.388	419	421	425	VV 2	2880	56858	0.00%	0.003%
38	4.445	425	429	440	VV	3047	174743	0.01%	0.010%
39	4.538	440	442	444	VV	2802	38381	0.00%	0.002%
40	4.567	444	446	449	VV 2	3328	57534	0.00%	0.003%
41	4.610	449	452	456	VV 2	2981	66679	0.00%	0.004%
42	4.681	456	462	464	VV 4	3213	71089	0.00%	0.004%
43	4.717	464	467	473	VV 2	3424	100638	0.01%	0.006%
44	4.774	473	475	477	VV 2	3233	39516	0.00%	0.002%

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.796	477	478	483	VV	2	2633	66397	0.00%	0.004%
46	4.853	483	486	491	VV	2	2947	74860	0.01%	0.004%
47	4.903	491	493	495	VV		8579	78709	0.01%	0.005%
48	4.939	495	498	500	VV	2	2871	48769	0.00%	0.003%
49	4.974	500	503	505	VV	2	2689	44589	0.00%	0.003%
50	5.010	505	508	515	VV	3	3473	118772	0.01%	0.007%
51	5.075	515	517	521	VV	3	3045	70677	0.00%	0.004%
52	5.117	521	523	526	VV		3632	59803	0.00%	0.003%
53	5.153	526	528	534	VV	2	3888	105463	0.01%	0.006%
54	5.218	534	537	539	VV	2	3538	64524	0.00%	0.004%
55	5.239	539	540	542	VV	2	3697	41118	0.00%	0.002%
56	5.268	542	544	547	VV		3004	55293	0.00%	0.003%
57	5.332	547	553	556	VV		10239	162625	0.01%	0.009%
58	5.425	556	566	576	VV	3	3389	251368	0.02%	0.015%
59	5.511	576	578	584	VV	2	4001	118167	0.01%	0.007%
60	5.582	584	588	590	VV	2	4310	84395	0.01%	0.005%
61	5.611	590	592	594	VV	2	3678	51940	0.00%	0.003%
62	5.632	594	595	596	VV		3567	36491	0.00%	0.002%
63	5.661	596	599	602	VV	2	4333	79365	0.01%	0.005%
64	5.689	602	603	605	VV		3923	52944	0.00%	0.003%
65	5.718	605	607	609	VV	2	4223	53060	0.00%	0.003%
66	5.740	609	610	614	VV	2	3732	62967	0.00%	0.004%
67	5.825	614	622	624	PV		4420	141148	0.01%	0.008%
68	5.868	624	628	631	VV	2	3930	93230	0.01%	0.005%
69	5.904	631	633	640	VV		4028	133071	0.01%	0.008%
70	5.976	640	643	646	VV		4101	73105	0.01%	0.004%
71	6.054	646	654	657	VV	3	3780	160147	0.01%	0.009%
72	6.104	657	661	664	VV	3	4032	107669	0.01%	0.006%
73	6.247	664	681	699	VV		302561	11178338	0.78%	0.647%
74	6.383	699	700	708	VV	4	8434	263899	0.02%	0.015%
75	6.469	708	712	713	VV	2	5721	121865	0.01%	0.007%
76	6.497	713	716	721	VV	6	7088	195751	0.01%	0.011%
77	6.540	721	722	726	VV	3	5991	122034	0.01%	0.007%
78	6.576	726	727	730	VV	3	4712	69053	0.00%	0.004%
79	6.669	730	740	759	VV	2	85262	4218274	0.29%	0.244%
80	6.812	759	760	767	VV	4	10552	304375	0.02%	0.018%
81	6.869	767	768	774	VV	4	7979	226169	0.02%	0.013%
82	6.934	774	777	779	VV	4	6376	125551	0.01%	0.007%
83	7.055	779	794	815	VV		581174	19766502	1.37%	1.144%
84	7.277	815	825	840	VV		181375	6727573	0.47%	0.389%
85	7.391	840	841	848	VV	3	9230	248812	0.02%	0.014%
86	7.456	848	850	856	VV	4	6660	182983	0.01%	0.011%
87	7.520	856	859	861	VV	2	5383	103659	0.01%	0.006%
88	7.563	861	865	866	VV	2	4976	100270	0.01%	0.006%
89	7.599	866	870	873	VV	3	5146	137128	0.01%	0.008%
90	7.634	873	875	890	VV	2	4519	335746	0.02%	0.019%
91	7.749	890	891	893	VV		3751	49873	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.777	893	895	896	VV	4566	50055	0.00%	0.003%
93	7.806	896	899	907	VV 2	4050	162529	0.01%	0.009%
94	7.892	907	911	915	VV 3	4358	122229	0.01%	0.007%
95	7.928	915	916	918	VV	4165	45420	0.00%	0.003%
96	8.071	918	936	956	VV	216986	7591086	0.53%	0.439%
97	8.256	956	962	965	VV 3	6149	190362	0.01%	0.011%
98	8.285	965	966	976	VV 4	5907	210059	0.01%	0.012%
99	8.364	976	977	979	VV	3745	45116	0.00%	0.003%
100	8.392	979	981	983	VV	4181	58910	0.00%	0.003%
101	8.421	983	985	991	VV 3	4228	127684	0.01%	0.007%
102	8.485	991	994	995	VV	4454	58780	0.00%	0.003%
103	8.507	995	997	1003	VV 2	4439	118556	0.01%	0.007%
104	8.628	1003	1014	1030	VV	365316	11918996	0.83%	0.690%
105	8.750	1030	1031	1037	VV 2	11026	225166	0.02%	0.013%
106	8.800	1037	1038	1047	VV 3	6368	242771	0.02%	0.014%
107	8.893	1047	1051	1057	VV 3	5577	182220	0.01%	0.011%
108	8.957	1057	1060	1062	VV	5200	81952	0.01%	0.005%
109	9.021	1062	1069	1071	VV 2	4812	136097	0.01%	0.008%
110	9.064	1071	1075	1077	VV	3673	81507	0.01%	0.005%
111	9.093	1077	1079	1083	VV 2	4111	88279	0.01%	0.005%
112	9.157	1083	1088	1095	VV 3	4158	176586	0.01%	0.010%
113	9.243	1095	1100	1106	VV	10166	195587	0.01%	0.011%
114	9.300	1106	1108	1116	VV	4023	120347	0.01%	0.007%
115	9.400	1116	1122	1128	VV 7	4786	188171	0.01%	0.011%
116	9.479	1128	1133	1135	VV 2	4216	109678	0.01%	0.006%
117	9.515	1135	1138	1140	VV 2	4465	71615	0.00%	0.004%
118	9.543	1140	1142	1146	VV 2	3969	84708	0.01%	0.005%
119	9.579	1146	1147	1150	VV	4202	72338	0.01%	0.004%
120	9.636	1150	1155	1157	VV 2	3592	93842	0.01%	0.005%
121	9.672	1157	1160	1163	VV	4449	80940	0.01%	0.005%
122	9.715	1163	1166	1167	VV	2869	50052	0.00%	0.003%
123	9.737	1167	1169	1173	VV 2	3535	70839	0.00%	0.004%
124	9.837	1173	1183	1204	VV	442304	13238068	0.92%	0.766%
125	10.001	1204	1206	1214	VV 6	8865	275544	0.02%	0.016%
126	10.073	1214	1216	1219	VV 2	5820	105593	0.01%	0.006%
127	10.173	1219	1230	1256	VV	750332	21204925	1.47%	1.227%
128	10.373	1256	1258	1262	VV	12808	142880	0.01%	0.008%
129	10.416	1262	1264	1268	VV 2	5019	122918	0.01%	0.007%
130	10.459	1268	1270	1279	VV 3	4143	192792	0.01%	0.011%
131	10.537	1279	1281	1283	VV 3	4154	57566	0.00%	0.003%
132	10.559	1283	1284	1286	VV	4276	49129	0.00%	0.003%
133	10.587	1286	1288	1292	VV 3	4842	103809	0.01%	0.006%
134	10.623	1292	1293	1298	VV 2	4455	95320	0.01%	0.006%
135	10.702	1298	1304	1305	VV 2	4014	113206	0.01%	0.007%
136	10.730	1305	1308	1309	VV 2	4517	70431	0.00%	0.004%
137	10.752	1309	1311	1313	VV	4025	50657	0.00%	0.003%
138	10.895	1313	1331	1364	VV 2	303569	14902152	1.03%	0.862%
139	11.159	1364	1368	1374	VV 4	5892	211857	0.01%	0.012%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.217	1374	1376	1381	VV	2	5136	127300	0.01%	0.007%
141	11.267	1381	1383	1384	VV	2	5321	65709	0.00%	0.004%
142	11.331	1384	1392	1394	VV	5	4904	169512	0.01%	0.010%
143	11.374	1394	1398	1402	VV	3	4732	134762	0.01%	0.008%
144	11.424	1402	1405	1411	VV	2	4251	162247	0.01%	0.009%
145	11.481	1411	1413	1416	VV		4204	66081	0.00%	0.004%
146	11.517	1416	1418	1420	VV		4057	61435	0.00%	0.004%
147	11.546	1420	1422	1425	VV		3930	75978	0.01%	0.004%
148	11.617	1425	1432	1438	VV		11348	239319	0.02%	0.014%
149	11.681	1438	1441	1442	VV		3911	67221	0.00%	0.004%
150	11.703	1442	1444	1445	VV		3440	37603	0.00%	0.002%
151	11.753	1445	1451	1453	VV		4885	136081	0.01%	0.008%
152	11.796	1453	1457	1459	VV	2	4300	77517	0.01%	0.004%
153	11.817	1459	1460	1464	VV	2	3959	72172	0.01%	0.004%
154	11.867	1464	1467	1468	VV		4385	70784	0.00%	0.004%
155	11.889	1468	1470	1472	VV	2	4088	62953	0.00%	0.004%
156	11.924	1472	1475	1477	VV		4570	74726	0.01%	0.004%
157	11.953	1477	1479	1484	VV	2	3858	96815	0.01%	0.006%
158	12.003	1484	1486	1490	VV	2	3845	94939	0.01%	0.005%
159	12.039	1490	1491	1500	VV	4	3617	134150	0.01%	0.008%
160	12.203	1500	1514	1530	VV	2	332506	10913726	0.76%	0.632%
161	12.325	1530	1531	1538	VV	2	15440	408470	0.03%	0.024%
162	12.382	1538	1539	1552	VV	8	9439	444905	0.03%	0.026%
163	12.489	1552	1554	1558	VV	2	6924	153219	0.01%	0.009%
164	12.539	1558	1561	1563	VV	3	6440	115517	0.01%	0.007%
165	12.632	1563	1574	1592	VV		290910	8541461	0.59%	0.494%
166	12.768	1592	1593	1604	VV	5	7701	309778	0.02%	0.018%
167	12.861	1604	1606	1608	VV	2	4794	67070	0.00%	0.004%
168	12.883	1608	1609	1611	VV		4754	65595	0.00%	0.004%
169	12.961	1611	1620	1622	VV	2	5735	191031	0.01%	0.011%
170	13.004	1622	1626	1636	VV	2	10852	335982	0.02%	0.019%
171	13.097	1636	1639	1663	VV	4	4644	422655	0.03%	0.024%
172	13.290	1663	1666	1688	VV	3	4106	364549	0.03%	0.021%
173	13.469	1688	1691	1697	VV		4705	124933	0.01%	0.007%
174	13.569	1697	1705	1707	VV	2	3764	143720	0.01%	0.008%
175	13.619	1707	1712	1715	VV	4	4539	113567	0.01%	0.007%
176	13.676	1715	1720	1728	VV	4	3856	187448	0.01%	0.011%
177	13.776	1728	1734	1744	VV	6	5382	297709	0.02%	0.017%
178	13.855	1744	1745	1749	VV		3900	61076	0.00%	0.004%
179	13.948	1749	1758	1765	VV	2	4038	228128	0.02%	0.013%
180	14.041	1765	1771	1785	VV	3	4136	279260	0.02%	0.016%
181	14.155	1785	1787	1794	VV	2	3566	106139	0.01%	0.006%
182	14.227	1794	1797	1803	VV	3	4329	129449	0.01%	0.007%
183	14.320	1803	1810	1813	VV	4	4429	157787	0.01%	0.009%
184	14.377	1813	1818	1820	VV	3	3723	96503	0.01%	0.006%
185	14.406	1820	1822	1824	VV		3440	34590	0.00%	0.002%
186	14.456	1824	1829	1831	VV	3	3757	89662	0.01%	0.005%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.484	1831	1833	1837	VV	4203	95845	0.01%	0.006%
188	14.549	1837	1842	1846	VV	4606	114191	0.01%	0.007%
189	14.620	1846	1852	1856	VV 3	3693	138533	0.01%	0.008%
190	14.684	1856	1861	1870	VV 2	4075	193080	0.01%	0.011%
191	14.770	1870	1873	1882	VV 2	3454	150897	0.01%	0.009%
192	14.849	1882	1884	1886	VV 2	3755	65592	0.00%	0.004%
193	14.970	1886	1901	1911	VV 2	118174	3632301	0.25%	0.210%
194	15.106	1911	1920	1935	VV	179834	4993071	0.35%	0.289%
195	15.228	1935	1937	1947	VV 2	5475	206483	0.01%	0.012%
196	15.335	1947	1952	1972	VV 2	4127	346322	0.02%	0.020%
197	15.492	1972	1974	1996	VV 3	3623	322871	0.02%	0.019%
198	15.707	1996	2004	2006	VV 2	5863	134210	0.01%	0.008%
199	15.736	2006	2008	2011	VV 2	3769	54765	0.00%	0.003%
200	15.771	2011	2013	2016	VV	3913	78464	0.01%	0.005%
201	15.807	2016	2018	2022	VV 2	3665	78452	0.01%	0.005%
202	15.850	2022	2024	2030	VV 2	4005	106387	0.01%	0.006%
203	15.907	2030	2032	2036	VV 2	4174	92378	0.01%	0.005%
204	15.950	2036	2038	2044	VV 2	3962	114638	0.01%	0.007%
205	16.029	2044	2049	2052	VV 2	3856	102391	0.01%	0.006%
206	16.079	2052	2056	2061	VV 3	4355	138142	0.01%	0.008%
207	16.129	2061	2063	2067	VV 2	3649	73062	0.01%	0.004%
208	16.172	2067	2069	2075	VV 2	3543	97234	0.01%	0.006%
209	16.236	2075	2078	2081	VV 2	3544	72981	0.01%	0.004%
210	16.272	2081	2083	2097	VV 2	3508	199857	0.01%	0.012%
211	16.393	2097	2100	2102	VV	3583	75055	0.01%	0.004%
212	16.465	2102	2110	2120	VV 3	3740	235580	0.02%	0.014%
213	16.572	2120	2125	2136	VV 2	5050	249004	0.02%	0.014%
214	16.722	2136	2146	2186	VV 2	217129	6404178	0.44%	0.371%
215	17.023	2186	2188	2191	VV	4178	76198	0.01%	0.004%
216	17.066	2191	2194	2203	VV 2	3324	147763	0.01%	0.009%
217	17.166	2203	2208	2216	VV 2	4519	194809	0.01%	0.011%
218	17.251	2216	2220	2232	VV 2	3231	195052	0.01%	0.011%
219	17.473	2232	2251	2273	VV	488633	13514468	0.94%	0.782%
220	17.645	2273	2275	2283	VV	5339	177931	0.01%	0.010%
221	17.738	2283	2288	2295	VV 2	5107	181630	0.01%	0.011%
222	17.816	2295	2299	2312	VV 2	3878	235679	0.02%	0.014%
223	17.952	2312	2318	2332	VV 3	3975	275919	0.02%	0.016%
224	18.095	2332	2338	2340	VV	6762	125565	0.01%	0.007%
225	18.202	2340	2353	2366	VV 2	3697	329311	0.02%	0.019%
226	18.410	2366	2382	2393	VV 2	37019	1324368	0.09%	0.077%
227	18.531	2393	2399	2403	VV 2	3834	155026	0.01%	0.009%
228	18.581	2403	2406	2408	VV 2	3420	64240	0.00%	0.004%
229	18.639	2408	2414	2423	VV 2	3761	188740	0.01%	0.011%
230	18.717	2423	2425	2434	VV 2	3400	149745	0.01%	0.009%
231	18.875	2434	2447	2454	VV 3	4076	278334	0.02%	0.016%
232	18.946	2454	2457	2464	VV 2	3199	136052	0.01%	0.008%
233	19.060	2464	2473	2478	VV 3	3927	185755	0.01%	0.011%
234	19.110	2478	2480	2486	VV 2	3677	94536	0.01%	0.006%

0331

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	19.168	2486	2488	2491	VV		3579	73743	0.01%	0.004%
236	19.203	2491	2493	2497	VV		3264	61059	0.00%	0.004%
237	19.239	2497	2498	2509	VV		2978	171744	0.01%	0.010%
238	19.368	2509	2516	2520	VV	2	4354	163168	0.01%	0.009%
239	19.411	2520	2522	2528	VV	2	3179	90731	0.01%	0.005%
240	19.475	2528	2531	2537	VV	3	3912	113161	0.01%	0.007%
241	19.525	2537	2538	2540	VV		3464	47369	0.00%	0.003%
242	19.604	2540	2549	2554	VV	3	3507	179477	0.01%	0.010%
243	19.661	2554	2557	2560	VV		3661	91242	0.01%	0.005%
244	19.725	2560	2566	2569	VV	3	4224	130027	0.01%	0.008%
245	19.775	2569	2573	2582	VV		8863	208051	0.01%	0.012%
246	19.861	2582	2585	2592	VV	2	3559	131552	0.01%	0.008%
247	19.933	2592	2595	2599	VV	2	3367	92981	0.01%	0.005%
248	19.997	2599	2604	2609	VV	2	3259	117763	0.01%	0.007%
249	20.061	2609	2613	2618	VV	2	4337	129284	0.01%	0.007%
250	20.133	2618	2623	2626	VV		3904	117168	0.01%	0.007%
251	20.204	2626	2633	2635	VV	2	3657	124898	0.01%	0.007%
252	20.233	2635	2637	2639	VV	2	3432	45636	0.00%	0.003%
253	20.269	2639	2642	2650	VV		3996	183688	0.01%	0.011%
254	20.347	2650	2653	2662	VV	2	3590	147528	0.01%	0.009%
255	20.469	2662	2670	2676	VV	2	4301	197021	0.01%	0.011%
256	20.533	2676	2679	2685	VV	3	3781	123145	0.01%	0.007%
257	20.583	2685	2686	2692	VV	2	3554	78396	0.01%	0.005%
258	20.669	2692	2698	2703	VV	2	3479	154061	0.01%	0.009%
259	20.734	2703	2707	2715	VV	2	3673	149655	0.01%	0.009%
260	20.827	2715	2720	2722	VV		3179	71819	0.00%	0.004%
261	20.869	2722	2726	2731	VV	2	3454	122555	0.01%	0.007%
262	20.941	2731	2736	2751	VV	3	4553	286831	0.02%	0.017%
263	21.113	2751	2760	2769	VV	2	4228	247472	0.02%	0.014%
264	21.191	2769	2771	2775	VV	2	3901	77957	0.01%	0.005%
265	21.227	2775	2776	2782	VV	2	3763	98955	0.01%	0.006%
266	21.284	2782	2784	2786	VV		6528	64340	0.00%	0.004%
267	21.341	2786	2792	2797	VV	3	3508	144839	0.01%	0.008%
268	21.413	2797	2802	2805	VV	2	3932	103767	0.01%	0.006%
269	21.463	2805	2809	2814	VV	2	3583	126237	0.01%	0.007%
270	21.513	2814	2816	2822	VV	2	3648	101808	0.01%	0.006%
271	21.584	2822	2826	2835	VV	2	3825	173923	0.01%	0.010%
272	21.713	2835	2844	2855	VV	4	9858	444497	0.03%	0.026%
273	21.806	2855	2857	2860	VV	2	3500	68111	0.00%	0.004%
274	21.870	2860	2866	2868	VV	2	3285	100970	0.01%	0.006%
275	21.899	2868	2870	2873	VV	2	3655	67990	0.00%	0.004%
276	21.978	2873	2881	2883	VV	3	3481	130508	0.01%	0.008%
277	22.013	2883	2886	2889	VV	2	3485	70956	0.00%	0.004%
278	22.249	2889	2919	2937	VV	2	4323	654238	0.05%	0.038%
279	22.407	2937	2941	2946	VV	3	4087	131134	0.01%	0.008%
280	22.471	2946	2950	2955	VV	3	4206	131871	0.01%	0.008%
281	22.543	2955	2960	2968	VV	2	3896	179743	0.01%	0.010%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	22.600	2968	2968	2974	VV 2	3620	74163	0.01%	0.004%
283	22.700	2974	2982	2988	PV 3	3032	183962	0.01%	0.011%
284	22.786	2988	2994	3039	VV 3	3924	605954	0.04%	0.035%
285	23.222	3039	3055	3068	VV 4	3410	342018	0.02%	0.020%
286	23.472	3068	3090	3108	VV	7454	442352	0.03%	0.026%
287	23.629	3108	3112	3117	VV 3	2704	93154	0.01%	0.005%
288	23.794	3117	3135	3144	VV 2	2808	247168	0.02%	0.014%
289	23.965	3144	3159	3182	VV 2	3180	286308	0.02%	0.017%
290	24.159	3182	3186	3193	VV 3	1632	64953	0.00%	0.004%
291	24.237	3193	3197	3216	VV 4	1576	124673	0.01%	0.007%
292	24.452	3216	3227	3238	VV 2	1773	107531	0.01%	0.006%
293	24.573	3238	3244	3253	VV 3	1622	80718	0.01%	0.005%
294	24.652	3253	3255	3270	VV	4260	108004	0.01%	0.006%

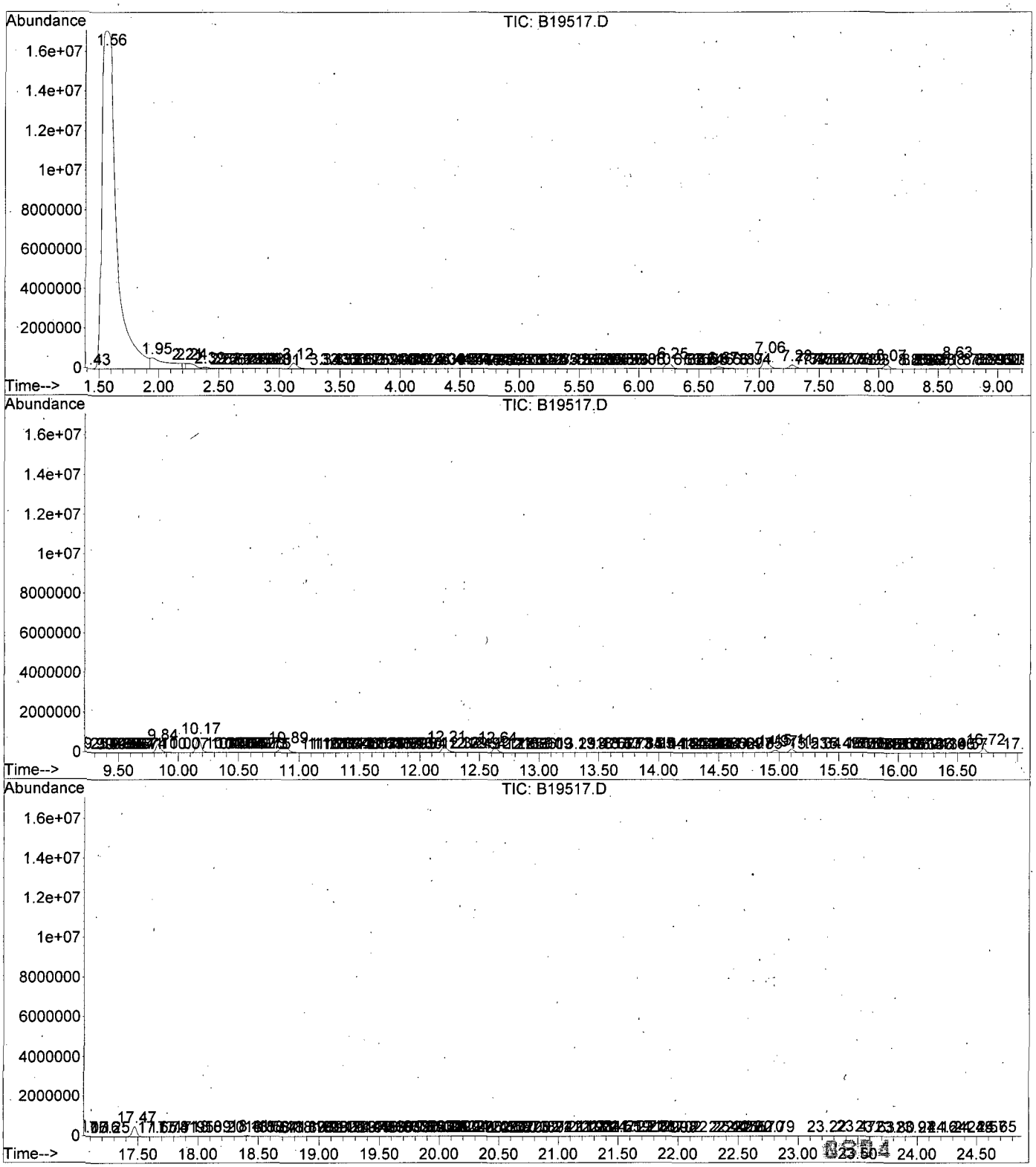
Sum of corrected areas: 1728005136

0803

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

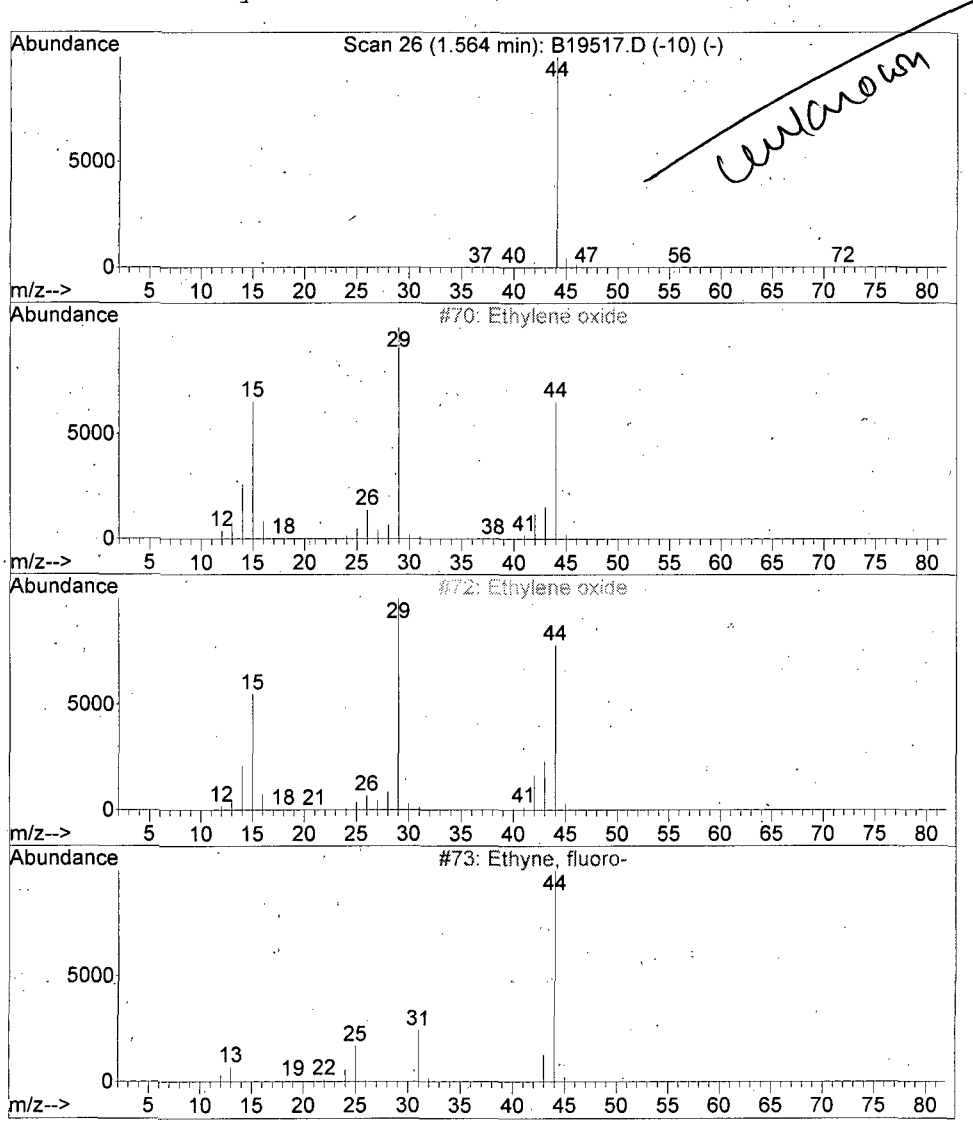
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

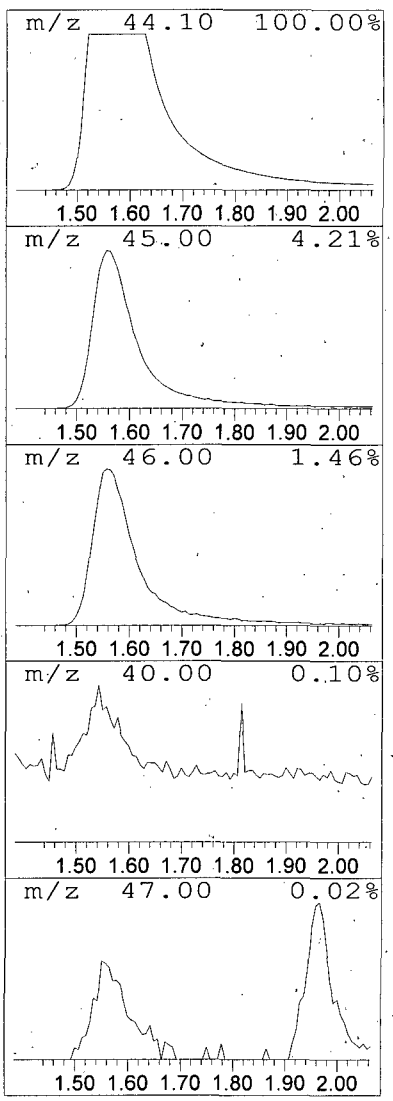
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	948.61 ug/L	1440190000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3





0805

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

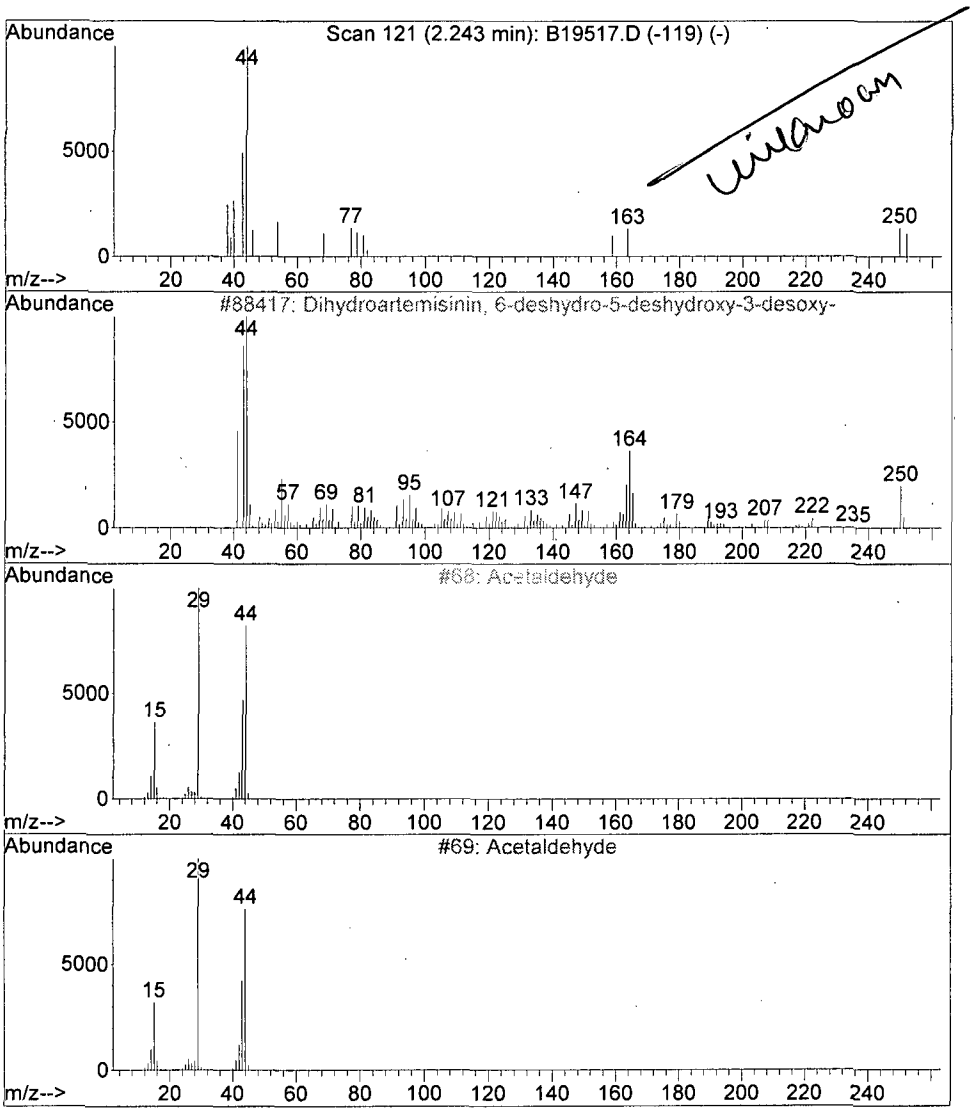
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

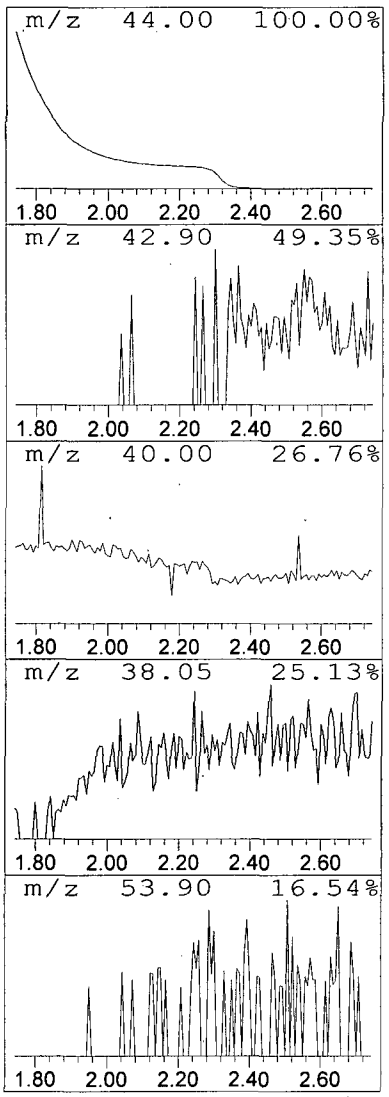
****

Peak Number 2 Dihydroartemisinin, 6-deshy... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.24	9.11 ug/L	13837700	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dihydroartemisinin, 6-deshydro-5...	250	C15H22O3	090935-14-1	4
2	Acetaldehyde	44	C2H4O	000075-07-0	4
3	Acetaldehyde	44	C2H4O	000075-07-0	4
4	Acetamide, 2-cyano-	84	C3H4N2O	000107-91-5	4
5	Propane	44	C3H8	000074-98-6	3





0806

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

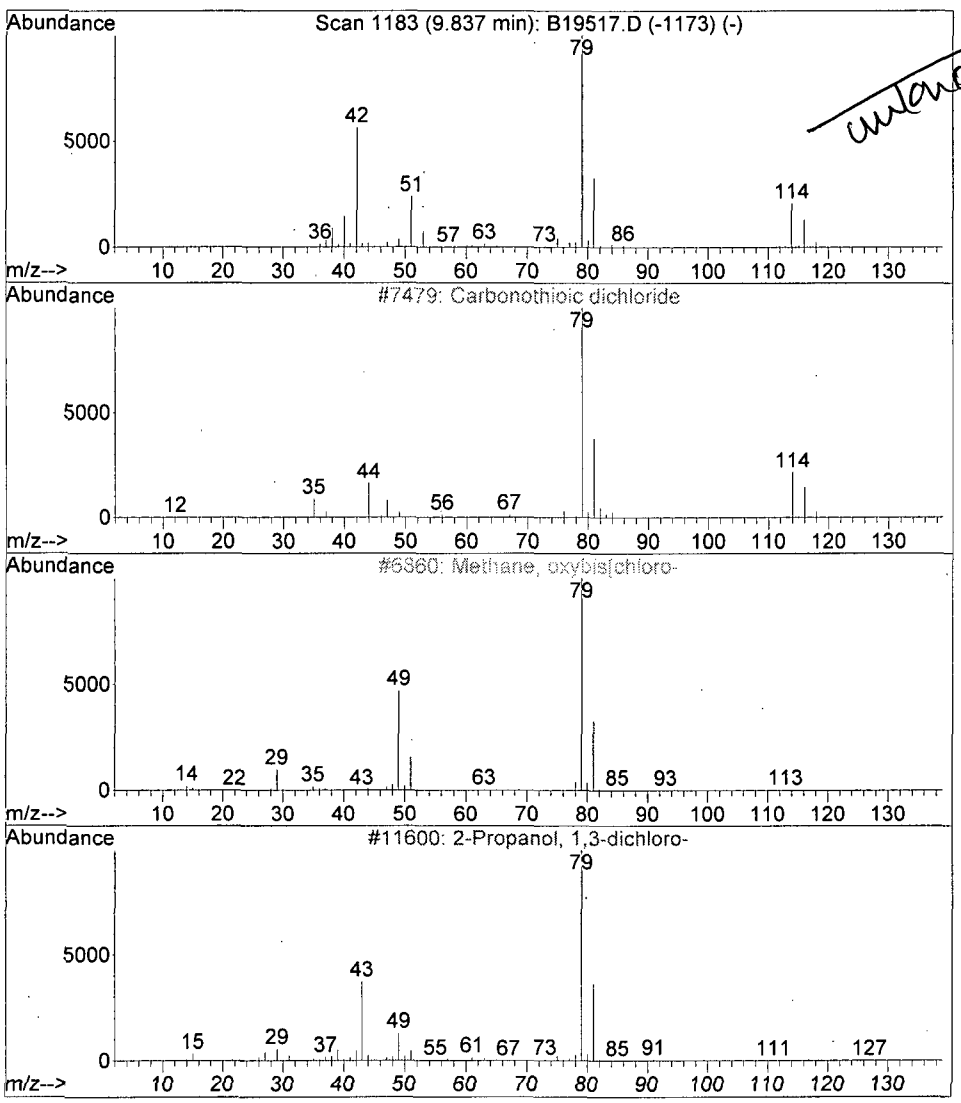
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	8.72 ug/L	13238100	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
5	.beta.-Butyrolactone	86	C4H6O2	003068-88-0	9



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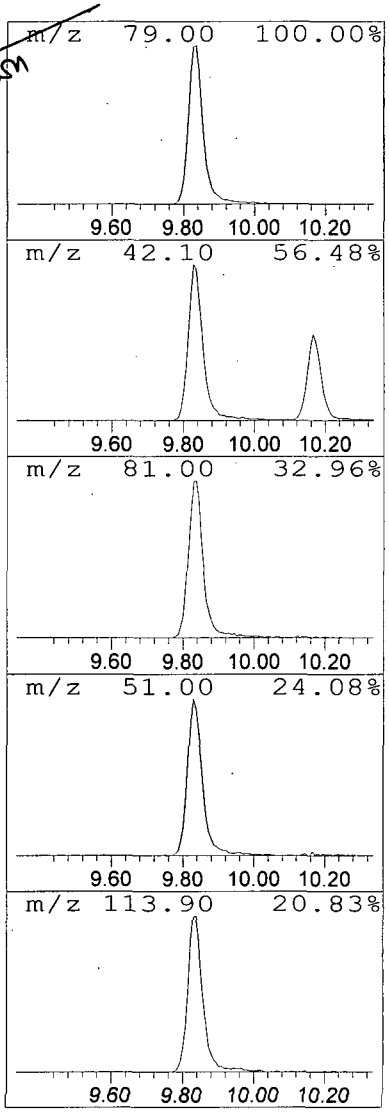

0807

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19517.D
Acq On : 11/26/08 09:35 Operator: SB
Sample : VBLK91 Inst : B-5973
Misc : VBLK91 25ML
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	948.6	ug/L	1440190000	1	8.07	7591090	5.0
Dihydroartemisini...	2.24	9.1	ug/L	13837700	1	8.07	7591090	5.0
Carbonothioic dic...	9.84	8.7	ug/L	13238100	1	8.07	7591090	5.0

0808

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.18

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17083

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.18

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17083

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.18

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17083

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.79	11	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 16:17:16 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 16:10:41 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.01	114	1181412	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.58	117	1120174	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.66	152	338743	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	676392	4.39	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 87.80%			
7) Chloroethane-d5	2.81	69	498193	5.47	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 109.40%			
10) 1,1-Dichloroethene-d2	3.73	63	1443402	3.81	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 76.20%			
21) 2-Butanone-d5	7.61	46	1355452	48.97	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 97.94%			
24) Chloroform-d	7.17	84	1951110	4.67	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 93.40%			
26) 1,2-Dichloroethane-d4	8.24	65	907787	5.44	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 108.80%			
32) Benzene-d6	7.99	84	3793856	4.59	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 91.80%			
36) 1,2-Dichloropropane-d6	9.59	67	1122380	4.57	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 91.40%			
41) Toluene-d8	11.11	98	3684018	4.87	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 97.40%			
43) trans-1,3-Dichloropropene-	11.85	79	951873	4.45	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 89.00%			
47) 2-Hexanone-d5	13.17	63	569668	46.13	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 92.26%			
57) 1,1,2,2-Tetrachloroethane-	16.06	84	571752	4.90	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 98.00%			
63) 1,2-Dichlorobenzene-d4	18.43	152	913847	5.93	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 118.60%			

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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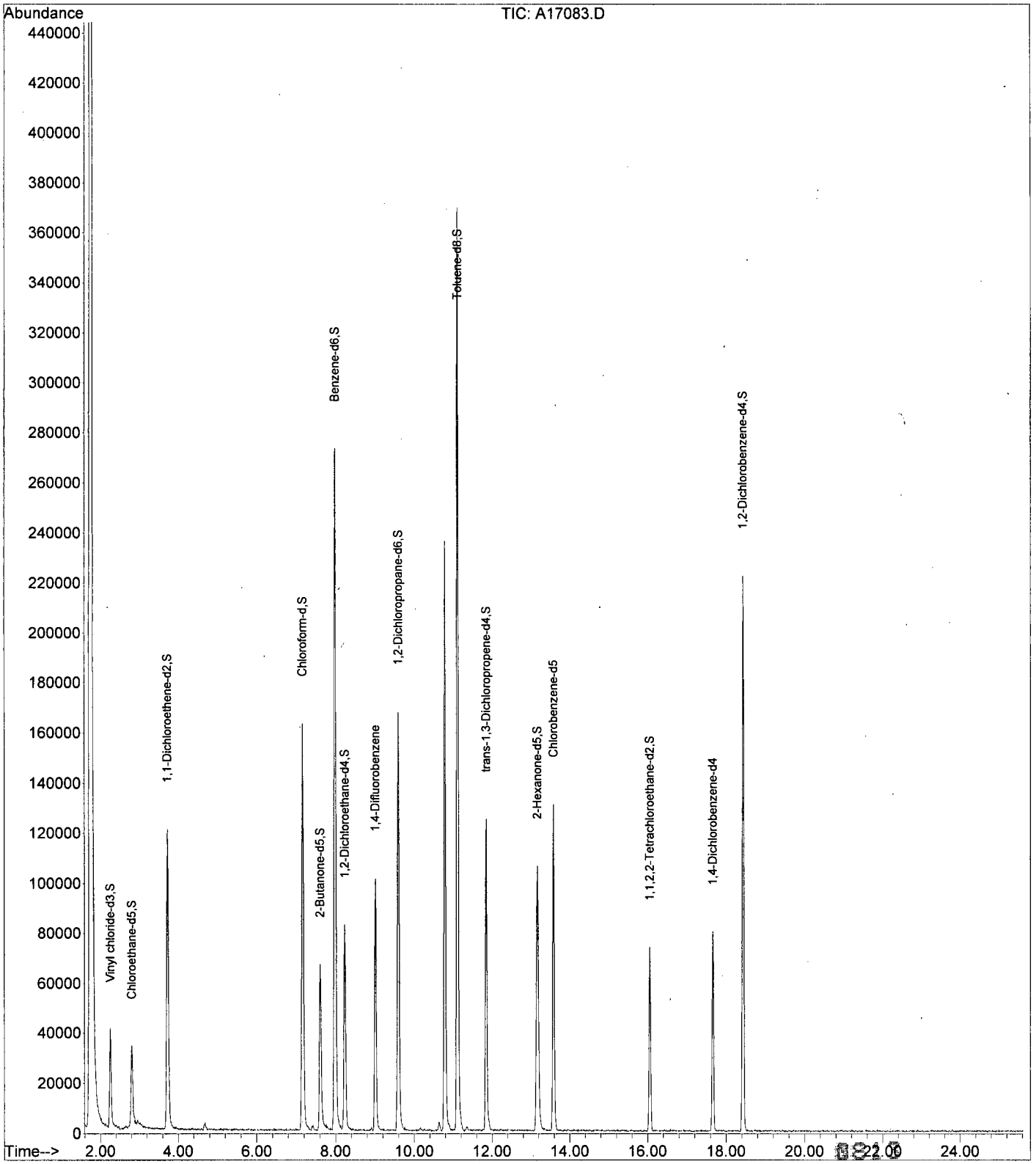
Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 16:17:16 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 16:10:41 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.129	75	77	86	PV 3	1182	22661	0.22%	0.030%
2	2.251	86	94	112	PV	38809	1119541	11.00%	1.481%
3	2.401	112	115	120	VV	1181	28867	0.28%	0.038%
4	2.466	120	124	135	VV 3	884	15552	0.15%	0.021%
5	2.559	135	137	138	VV	382	2205	0.02%	0.003%
6	2.580	138	140	142	PV	353	2539	0.02%	0.003%
7	2.609	142	144	146	PV 2	765	8541	0.08%	0.011%
8	2.652	146	150	156	VV 3	1213	37062	0.36%	0.049%
9	2.723	156	160	162	VV 2	1250	28638	0.28%	0.038%
10	2.802	162	171	185	VV 2	33746	1225599	12.05%	1.621%
11	2.917	185	187	189	VV 3	3138	44251	0.43%	0.059%
12	2.960	189	193	200	VV 7	3808	133089	1.31%	0.176%
13	3.024	200	202	205	VV 4	2674	41010	0.40%	0.054%
14	3.053	205	206	210	VV 3	2001	36899	0.36%	0.049%
15	3.110	210	214	216	VV 2	1331	26393	0.26%	0.035%
16	3.139	216	218	221	VV 2	1340	22142	0.22%	0.029%
17	3.189	221	225	229	VV 3	977	25483	0.25%	0.034%
18	3.225	229	230	234	VV	907	12708	0.12%	0.017%
19	3.268	234	236	242	VV 2	990	22323	0.22%	0.030%
20	3.325	242	244	246	VV	687	7090	0.07%	0.009%
21	3.354	246	248	252	VV 2	723	10739	0.11%	0.014%
22	3.397	252	254	256	VV	685	7114	0.07%	0.009%
23	3.433	256	259	261	VV 2	696	12735	0.13%	0.017%
24	3.454	261	262	273	VV 2	974	22746	0.22%	0.030%
25	3.547	273	275	277	VV	580	5669	0.06%	0.007%
26	3.590	277	281	285	VV	776	12854	0.13%	0.017%
27	3.726	285	300	321	VV 2	119389	3960558	38.92%	5.239%
28	3.905	321	325	329	VV 3	1172	28594	0.28%	0.038%
29	3.948	329	331	336	VV 3	1335	21191	0.21%	0.028%
30	3.991	336	337	341	VV	684	9110	0.09%	0.012%
31	4.034	341	343	344	VV 2	525	4280	0.04%	0.006%
32	4.056	344	346	347	VV	695	7007	0.07%	0.009%
33	4.077	347	349	351	VV 2	658	6885	0.07%	0.009%
34	4.106	351	353	359	VV 2	700	13012	0.13%	0.017%
35	4.163	359	361	363	VV 2	592	5501	0.05%	0.007%
36	4.185	363	364	367	VV 2	422	4709	0.05%	0.006%
37	4.221	367	369	371	VV	432	4102	0.04%	0.005%
38	4.249	371	373	376	VV	562	8042	0.08%	0.011%
39	4.285	376	378	382	VV	664	8367	0.08%	0.011%
40	4.328	382	384	386	VV	589	7281	0.07%	0.010%
41	4.349	386	387	391	VV 2	813	10696	0.11%	0.014%
42	4.385	391	392	394	VV	652	5641	0.06%	0.007%
43	4.414	394	396	397	VV 2	504	4799	0.05%	0.006%
44	4.435	397	399	404	VV 2	531	8184	0.08%	0.011%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.507	404	409	417	VV 2	596	19650	0.19%	0.026%
46	4.593	417	421	427	VV 2	710	15016	0.15%	0.020%
47	4.679	427	433	443	VV 4	2821	96722	0.95%	0.128%
48	4.844	443	456	459	VV 2	649	31817	0.31%	0.042%
49	4.915	459	466	468	VV 2	756	16455	0.16%	0.022%
50	4.944	468	470	472	VV 2	536	4979	0.05%	0.007%
51	4.973	472	474	477	VV 2	426	5949	0.06%	0.008%
52	5.037	477	483	488	VV 2	704	16457	0.16%	0.022%
53	5.087	488	490	495	VV 2	867	15040	0.15%	0.020%
54	5.130	495	496	499	VV	526	5735	0.06%	0.008%
55	5.166	499	501	503	VV	874	8089	0.08%	0.011%
56	5.202	503	506	508	VV	711	11265	0.11%	0.015%
57	5.252	508	513	517	VV 2	743	17074	0.17%	0.023%
58	5.309	517	521	526	VV 2	708	19157	0.19%	0.025%
59	5.359	526	528	530	VV	716	6578	0.06%	0.009%
60	5.388	530	532	536	PV 2	693	9674	0.10%	0.013%
61	5.424	536	537	543	VV	856	14779	0.15%	0.020%
62	5.474	543	544	546	VV	720	8616	0.08%	0.011%
63	5.510	546	549	555	VV 2	646	16149	0.16%	0.021%
64	5.581	555	559	561	VV 2	643	11760	0.12%	0.016%
65	5.603	561	562	564	VV 2	559	5946	0.06%	0.008%
66	5.632	564	566	568	VV	696	6215	0.06%	0.008%
67	5.660	568	570	572	VV	643	6854	0.07%	0.009%
68	5.696	572	575	578	VV 2	467	8130	0.08%	0.011%
69	5.796	578	589	597	VV 2	861	40303	0.40%	0.053%
70	5.868	597	599	603	VV	629	11924	0.12%	0.016%
71	5.911	603	605	607	VV	417	4506	0.04%	0.006%
72	5.940	607	609	613	VV 2	649	10414	0.10%	0.014%
73	5.983	613	615	618	VV	396	7383	0.07%	0.010%
74	6.018	618	620	625	VV 2	603	10273	0.10%	0.014%
75	6.076	625	628	630	VV 2	366	6343	0.06%	0.008%
76	6.112	630	633	638	VV 2	721	15377	0.15%	0.020%
77	6.169	638	641	643	VV 2	574	9829	0.10%	0.013%
78	6.212	643	647	658	VV 2	587	24065	0.24%	0.032%
79	6.298	658	659	664	VV 2	479	10938	0.11%	0.014%
80	6.348	664	666	668	VV	704	9362	0.09%	0.012%
81	6.377	668	670	676	VV 2	526	14243	0.14%	0.019%
82	6.441	676	679	688	VV 2	1001	25923	0.25%	0.034%
83	6.520	688	690	693	VV 2	468	7587	0.07%	0.010%
84	6.563	693	696	699	VV 2	804	12568	0.12%	0.017%
85	6.606	699	702	703	VV 2	631	7987	0.08%	0.011%
86	6.627	703	705	708	VV 2	788	9966	0.10%	0.013%
87	6.670	708	711	717	VV 2	597	13887	0.14%	0.018%
88	6.728	717	719	721	VV	525	6495	0.06%	0.009%
89	6.749	721	722	724	VV	869	7352	0.07%	0.010%
90	6.778	724	726	728	VV 2	418	5515	0.05%	0.007%
91	6.814	728	731	733	VV	488	6416	0.06%	0.008%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	6.856	733	737	741	VV	2	844	17493	0.17%	0.023%
93	6.899	741	743	745	VV	2	474	5272	0.05%	0.007%
94	6.935	745	748	752	VV	2	668	13928	0.14%	0.018%
95	6.993	752	756	758	VV	2	881	13416	0.13%	0.018%
96	7.021	758	760	769	VV	2	734	20260	0.20%	0.027%
97	7.172	769	781	807	VV		160502	5144189	50.56%	6.805%
98	7.365	807	808	816	VV	2	597	37628	0.37%	0.050%
99	7.430	816	817	832	VV	4	2084	51697	0.51%	0.068%
100	7.616	832	843	859	VV	2	66304	2205148	21.67%	2.917%
101	7.738	859	860	873	VV	3	2215	93315	0.92%	0.123%
102	7.845	873	875	877	VV	2	907	12204	0.12%	0.016%
103	7.988	877	895	914	VV		273968	8480560	83.35%	11.219%
104	8.139	914	916	919	VV	2	2231	31280	0.31%	0.041%
105	8.232	919	929	948	VV	2	81479	2601672	25.57%	3.442%
106	8.375	948	949	954	VV		1144	19935	0.20%	0.026%
107	8.425	954	956	957	VV		1026	11029	0.11%	0.015%
108	8.447	957	959	967	VV		862	23527	0.23%	0.031%
109	8.518	967	969	972	VV	2	663	8779	0.09%	0.012%
110	8.554	972	974	976	VV	2	401	4799	0.05%	0.006%
111	8.590	976	979	981	VV	2	719	11503	0.11%	0.015%
112	8.626	981	984	990	VV		638	17185	0.17%	0.023%
113	8.676	990	991	993	VV		451	5215	0.05%	0.007%
114	8.712	993	996	1003	VV	2	748	18803	0.18%	0.025%
115	8.776	1003	1005	1006	VV	2	331	3276	0.03%	0.004%
116	8.798	1006	1008	1010	VV	2	508	5781	0.06%	0.008%
117	8.826	1010	1012	1016	VV	2	516	9414	0.09%	0.012%
118	8.869	1016	1018	1020	VV	2	625	6120	0.06%	0.008%
119	8.912	1020	1024	1029	VV	2	1455	31363	0.31%	0.041%
120	9.013	1029	1038	1058	VV	2	101373	2925552	28.75%	3.870%
121	9.170	1058	1060	1062	VV	2	841	11261	0.11%	0.015%
122	9.192	1062	1063	1066	VV	2	887	9208	0.09%	0.012%
123	9.220	1066	1067	1072	VV	2	822	13326	0.13%	0.018%
124	9.306	1076	1079	1081	VV		582	8827	0.09%	0.012%
125	9.342	1081	1084	1087	VV	2	818	11602	0.11%	0.015%
126	9.378	1087	1089	1091	VV	2	708	7220	0.07%	0.010%
127	9.399	1091	1092	1098	VV	2	526	14073	0.14%	0.019%
128	9.457	1098	1100	1102	VV		665	9593	0.09%	0.013%
129	9.485	1102	1104	1107	VV	2	619	8184	0.08%	0.011%
130	9.593	1107	1119	1151	VV		167051	5339887	52.48%	7.064%
131	9.836	1151	1153	1156	VV		721	12258	0.12%	0.016%
132	9.879	1156	1159	1161	VV	2	432	7466	0.07%	0.010%
133	9.929	1161	1166	1172	VV	2	494	16572	0.16%	0.022%
134	9.987	1172	1174	1176	VV	2	490	5743	0.06%	0.008%
135	10.058	1176	1184	1193	VV	2	899	32021	0.31%	0.042%
136	10.159	1193	1198	1200	VV	4	1436	29954	0.29%	0.040%
137	10.187	1200	1202	1208	VV	3	737	17333	0.17%	0.023%
138	10.245	1208	1210	1211	VV	2	681	6391	0.06%	0.008%
139	10.259	1211	1212	1217	VV		918	15707	0.15%	0.021%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.309	1217	1219	1220	VV	358	4196	0.04%	0.006%
141	10.352	1220	1225	1227	VV	635	13204	0.13%	0.017%
142	10.381	1227	1229	1231	VV	838	9952	0.10%	0.013%
143	10.417	1231	1234	1238	VV 2	640	12693	0.12%	0.017%
144	10.460	1238	1240	1244	PV 2	474	8065	0.08%	0.011%
145	10.503	1244	1246	1248	VV	369	4485	0.04%	0.006%
146	10.531	1248	1250	1252	VV 2	537	7427	0.07%	0.010%
147	10.567	1252	1255	1257	VV 2	630	9168	0.09%	0.012%
148	10.639	1257	1265	1274	VV 3	3855	117122	1.15%	0.155%
149	10.789	1274	1286	1307	VV	233698	6350868	62.42%	8.402%
150	10.961	1307	1310	1314	VV	955	19911	0.20%	0.026%
151	11.011	1314	1317	1320	VV 3	939	16618	0.16%	0.022%
152	11.111	1320	1331	1355	VV	370438	10175146	100.00%	13.461%
153	11.341	1355	1363	1375	VV 4	1780	77163	0.76%	0.102%
154	11.441	1375	1377	1384	VV	840	19527	0.19%	0.026%
155	11.534	1384	1390	1392	VV	900	20411	0.20%	0.027%
156	11.584	1392	1397	1399	VV	730	16422	0.16%	0.022%
157	11.620	1399	1402	1406	VV 2	797	18154	0.18%	0.024%
158	11.663	1406	1408	1410	VV 2	981	11780	0.12%	0.016%
159	11.699	1410	1413	1415	VV 2	688	11308	0.11%	0.015%
160	11.727	1415	1417	1420	VV	598	9465	0.09%	0.013%
161	11.763	1420	1422	1425	VV	1003	15938	0.16%	0.021%
162	11.849	1425	1434	1451	VV	124472	3344156	32.87%	4.424%
163	11.992	1451	1454	1458	VV	1033	23131	0.23%	0.031%
164	12.028	1458	1459	1463	VV 2	802	12087	0.12%	0.016%
165	12.071	1463	1465	1468	VV 2	1025	13933	0.14%	0.018%
166	12.143	1468	1475	1479	VV 2	940	24994	0.25%	0.033%
167	12.193	1479	1482	1483	VV	749	9652	0.09%	0.013%
168	12.229	1483	1487	1490	VV	1031	23718	0.23%	0.031%
169	12.265	1490	1492	1496	VV	565	15003	0.15%	0.020%
170	12.308	1496	1498	1499	VV 2	582	5340	0.05%	0.007%
171	12.329	1499	1501	1505	VV 2	779	13187	0.13%	0.017%
172	12.365	1505	1506	1508	VV	708	6857	0.07%	0.009%
173	12.415	1508	1513	1519	VV	940	26468	0.26%	0.035%
174	12.479	1519	1522	1530	VV 2	611	24795	0.24%	0.033%
175	12.565	1530	1534	1542	VV 2	738	25553	0.25%	0.034%
176	12.651	1542	1546	1548	VV	748	12063	0.12%	0.016%
177	12.673	1548	1549	1551	VV	679	7384	0.07%	0.010%
178	12.702	1551	1553	1557	VV	788	15050	0.15%	0.020%
179	12.745	1557	1559	1561	VV	677	9890	0.10%	0.013%
180	12.766	1561	1562	1571	VV 2	649	21651	0.21%	0.029%
181	12.845	1571	1573	1574	VV 2	650	7125	0.07%	0.009%
182	12.881	1574	1578	1581	VV 2	816	15292	0.15%	0.020%
183	12.916	1581	1583	1585	VV 2	746	9301	0.09%	0.012%
184	12.945	1585	1587	1591	VV 2	537	12420	0.12%	0.016%
185	12.988	1591	1593	1595	VV 2	650	8861	0.09%	0.012%
186	13.017	1595	1597	1599	VV	551	6931	0.07%	0.009%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.045	1599	1601	1605	VV 2	566	10001	0.10%	0.013%
188	13.167	1605	1618	1635	VV 2	105405	4029405	39.60%	5.330%
189	13.296	1635	1636	1641	VV 2	1628	37812	0.37%	0.050%
190	13.346	1641	1643	1647	VV 2	1386	21016	0.21%	0.028%
191	13.389	1647	1649	1651	VV	742	9404	0.09%	0.012%
192	13.418	1651	1653	1658	VV	742	18099	0.18%	0.024%
193	13.489	1658	1663	1666	VV 2	726	17884	0.18%	0.024%
194	13.583	1666	1676	1692	VV	131164	3604117	35.42%	4.768%
195	13.719	1692	1695	1703	VV 2	710	26127	0.26%	0.035%
196	13.783	1703	1704	1708	VV 2	577	9815	0.10%	0.013%
197	13.826	1708	1710	1712	VV	459	4317	0.04%	0.006%
198	13.869	1712	1716	1718	VV 2	736	13624	0.13%	0.018%
199	13.898	1718	1720	1724	VV 2	621	11335	0.11%	0.015%
200	13.948	1724	1727	1730	VV 2	879	19183	0.19%	0.025%
201	13.984	1730	1732	1737	VV 2	664	14985	0.15%	0.020%
202	14.098	1737	1748	1750	VV 2	899	25459	0.25%	0.034%
203	14.127	1750	1752	1755	VV	755	12120	0.12%	0.016%
204	14.191	1755	1761	1763	VV	725	16574	0.16%	0.022%
205	14.220	1763	1765	1770	PV	889	15143	0.15%	0.020%
206	14.292	1770	1775	1777	VV	816	14652	0.14%	0.019%
207	14.342	1777	1782	1788	VV 2	742	25840	0.25%	0.034%
208	14.392	1788	1789	1793	VV	552	8971	0.09%	0.012%
209	14.435	1793	1795	1803	VV 2	683	20348	0.20%	0.027%
210	14.507	1803	1805	1811	VV 2	770	18993	0.19%	0.025%
211	14.557	1811	1812	1814	VV	531	4635	0.05%	0.006%
212	14.593	1814	1817	1820	VV 2	571	8488	0.08%	0.011%
213	14.628	1820	1822	1833	VV	710	30144	0.30%	0.040%
214	14.722	1833	1835	1840	VV 2	849	17649	0.17%	0.023%
215	14.772	1840	1842	1843	VV 2	557	7224	0.07%	0.010%
216	14.800	1843	1846	1850	VV 2	594	15297	0.15%	0.020%
217	14.843	1850	1852	1857	VV	724	12675	0.12%	0.017%
218	14.893	1857	1859	1863	VV	407	9095	0.09%	0.012%
219	14.944	1863	1866	1870	VV 2	691	14769	0.15%	0.020%
220	14.994	1870	1873	1876	VV	822	12681	0.12%	0.017%
221	15.022	1876	1877	1883	VV 2	653	12160	0.12%	0.016%
222	15.080	1883	1885	1887	VV	726	9829	0.10%	0.013%
223	15.151	1887	1895	1899	VV 2	666	23375	0.23%	0.031%
224	15.209	1899	1903	1905	VV 2	762	13330	0.13%	0.018%
225	15.237	1905	1907	1911	VV	993	13131	0.13%	0.017%
226	15.323	1911	1919	1921	VV 2	631	19325	0.19%	0.026%
227	15.352	1921	1923	1927	VV 2	741	14369	0.14%	0.019%
228	15.388	1927	1928	1935	VV 2	757	18686	0.18%	0.025%
229	15.452	1935	1937	1941	VV 2	597	10128	0.10%	0.013%
230	15.502	1941	1944	1946	VV	426	5591	0.05%	0.007%
231	15.595	1946	1957	1959	VV 2	720	27025	0.27%	0.036%
232	15.624	1959	1961	1964	VV	526	9080	0.09%	0.012%
233	15.660	1964	1966	1971	VV 2	497	12942	0.13%	0.017%
234	15.710	1971	1973	1979	VV 2	574	12695	0.12%	0.017%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	15.782	1979	1983	1984	VV 2	495	8215	0.08%	0.011%
236	15.803	1984	1986	1987	VV 2	552	6230	0.06%	0.008%
237	15.825	1987	1989	1992	VV	622	9091	0.09%	0.012%
238	15.860	1992	1994	1996	VV 2	362	4058	0.04%	0.005%
239	15.918	1996	2002	2006	VV 2	613	16216	0.16%	0.021%
240	15.961	2006	2008	2012	VV	506	9590	0.09%	0.013%
241	16.054	2012	2021	2033	VV	72244	2000129	19.66%	2.646%
242	16.154	2033	2035	2037	VV	624	8174	0.08%	0.011%
243	16.183	2037	2039	2041	VV	687	10288	0.10%	0.014%
244	16.211	2041	2043	2045	VV 2	606	7992	0.08%	0.011%
245	16.233	2045	2046	2052	VV	528	14849	0.15%	0.020%
246	16.297	2052	2055	2058	VV 2	596	10523	0.10%	0.014%
247	16.348	2058	2062	2072	VV 2	617	27146	0.27%	0.036%
248	16.441	2072	2075	2078	VV	819	12662	0.12%	0.017%
249	16.491	2078	2082	2085	VV	661	10831	0.11%	0.014%
250	16.548	2085	2090	2093	VV 2	575	12832	0.13%	0.017%
251	16.577	2093	2094	2097	VV	920	8128	0.08%	0.011%
252	16.613	2097	2099	2105	VV	708	19477	0.19%	0.026%
253	16.670	2105	2107	2115	VV 2	768	21623	0.21%	0.029%
254	16.741	2115	2117	2121	VV	682	10893	0.11%	0.014%
255	16.813	2121	2127	2131	VV 2	547	15582	0.15%	0.021%
256	16.921	2131	2142	2148	VV 2	939	35645	0.35%	0.047%
257	17.035	2148	2158	2160	VV 2	590	23115	0.23%	0.031%
258	17.071	2160	2163	2169	VV 2	757	17435	0.17%	0.023%
259	17.135	2169	2172	2179	VV 2	381	10600	0.10%	0.014%
260	17.200	2179	2181	2185	VV 2	561	8398	0.08%	0.011%
261	17.243	2185	2187	2190	VV 2	667	9440	0.09%	0.012%
262	17.286	2190	2193	2196	VV 2	547	10262	0.10%	0.014%
263	17.322	2196	2198	2205	VV	610	17944	0.18%	0.024%
264	17.386	2205	2207	2208	VV	730	6183	0.06%	0.008%
265	17.408	2208	2210	2214	VV 2	521	10919	0.11%	0.014%
266	17.458	2214	2217	2222	VV 2	644	14592	0.14%	0.019%
267	17.522	2222	2226	2228	VV 2	550	9043	0.09%	0.012%
268	17.544	2228	2229	2231	VV	378	4516	0.04%	0.006%
269	17.666	2231	2246	2258	VV 2	79120	2097900	20.62%	2.775%
270	17.766	2258	2260	2262	VV	642	10035	0.10%	0.013%
271	17.823	2262	2268	2269	VV 2	896	16702	0.16%	0.022%
272	17.859	2269	2273	2274	VV	644	11890	0.12%	0.016%
273	17.888	2274	2277	2281	VV 2	734	14459	0.14%	0.019%
274	17.931	2281	2283	2287	VV 2	803	13677	0.13%	0.018%
275	17.974	2287	2289	2293	VV 2	470	8413	0.08%	0.011%
276	18.017	2293	2295	2298	VV	479	6922	0.07%	0.009%
277	18.052	2298	2300	2302	VV	635	7525	0.07%	0.010%
278	18.074	2302	2303	2307	VV	604	12239	0.12%	0.016%
279	18.117	2307	2309	2313	VV 2	705	13873	0.14%	0.018%
280	18.160	2313	2315	2316	VV	558	5466	0.05%	0.007%
281	18.181	2316	2318	2324	VV 2	682	18069	0.18%	0.024%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.231	2324	2325	2334	VV 2	668	20865	0.21%	0.028%
283	18.310	2334	2336	2339	VV	712	10685	0.11%	0.014%
284	18.432	2343	2353	2366	VV	221059	5700983	56.03%	7.542%
285	18.539	2366	2368	2370	VV	891	9115	0.09%	0.012%
286	18.568	2370	2372	2379	VV 2	692	17529	0.17%	0.023%
287	18.640	2379	2382	2386	VV 2	743	14024	0.14%	0.019%
288	18.718	2386	2393	2395	VV 2	737	19576	0.19%	0.026%
289	18.747	2395	2397	2404	VV 2	927	21282	0.21%	0.028%
290	18.812	2404	2406	2407	VV	696	6609	0.06%	0.009%
291	18.847	2407	2411	2412	VV	830	12772	0.13%	0.017%
292	18.869	2412	2414	2417	VV 2	750	8303	0.08%	0.011%
293	18.898	2417	2418	2427	VV 2	467	17111	0.17%	0.023%
294	18.976	2427	2429	2439	VV 2	555	26434	0.26%	0.035%
295	19.134	2439	2451	2455	VV 2	804	38237	0.38%	0.051%
296	19.170	2455	2456	2462	VV	609	15467	0.15%	0.020%
297	19.256	2462	2468	2470	VV	659	16759	0.16%	0.022%
298	19.284	2470	2472	2474	VV 2	582	8310	0.08%	0.011%
299	19.306	2474	2475	2477	VV 2	527	5948	0.06%	0.008%
300	19.342	2477	2480	2487	VV 2	652	20419	0.20%	0.027%
301	19.428	2487	2492	2495	VV	807	19077	0.19%	0.025%
302	19.463	2495	2497	2501	VV 2	599	10185	0.10%	0.013%
303	19.506	2501	2503	2505	VV	683	6465	0.06%	0.009%
304	19.535	2505	2507	2509	VV 2	530	6911	0.07%	0.009%
305	19.585	2509	2514	2516	VV 2	584	11861	0.12%	0.016%
306	19.621	2516	2519	2524	VV 2	572	15403	0.15%	0.020%
307	19.671	2524	2526	2528	VV	499	5236	0.05%	0.007%
308	19.728	2528	2534	2537	VV 2	807	20475	0.20%	0.027%
309	19.764	2537	2539	2541	VV	594	6483	0.06%	0.009%
310	19.793	2541	2543	2545	VV	535	8454	0.08%	0.011%
311	19.850	2545	2551	2553	VV 2	749	15818	0.16%	0.021%
312	19.879	2553	2555	2560	VV 2	631	14963	0.15%	0.020%
313	19.936	2560	2563	2567	VV	721	14412	0.14%	0.019%
314	19.979	2567	2569	2572	VV	746	10964	0.11%	0.015%
315	20.044	2572	2578	2579	VV 2	720	16733	0.16%	0.022%
316	20.065	2579	2581	2584	VV 2	759	10605	0.10%	0.014%
317	20.115	2584	2588	2592	VV 2	634	16378	0.16%	0.022%
318	20.158	2592	2594	2603	PV 2	500	18993	0.19%	0.025%
319	20.237	2603	2605	2607	VV 2	536	8078	0.08%	0.011%
320	20.280	2607	2611	2614	VV 2	674	12955	0.13%	0.017%
321	20.345	2614	2620	2622	VV 2	597	15778	0.16%	0.021%
322	20.373	2622	2624	2626	VV	515	5583	0.05%	0.007%
323	20.402	2626	2628	2630	VV	531	7341	0.07%	0.010%
324	20.459	2630	2636	2640	VV 2	752	21795	0.21%	0.029%
325	20.502	2640	2642	2659	VV 2	508	33155	0.33%	0.044%
326	20.667	2659	2665	2677	VV 2	672	33458	0.33%	0.044%
327	20.824	2677	2687	2693	VV 2	670	29090	0.29%	0.038%
328	20.918	2693	2700	2702	VV 2	759	18534	0.18%	0.025%
329	20.946	2702	2704	2709	VV 2	828	16798	0.17%	0.022%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.996	2709	2711	2713	VV 2	468	5940	0.06%	0.008%
331	21.025	2713	2715	2723	VV	617	17616	0.17%	0.023%
332	21.104	2723	2726	2727	VV	418	5624	0.06%	0.007%
333	21.140	2727	2731	2738	VV 2	622	18751	0.18%	0.025%
334	21.204	2738	2740	2743	VV 2	998	11994	0.12%	0.016%
335	21.233	2743	2744	2749	VV	568	9312	0.09%	0.012%
336	21.297	2749	2753	2763	VV 2	649	20683	0.20%	0.027%
337	21.390	2763	2766	2769	VV 2	657	10906	0.11%	0.014%
338	21.462	2769	2776	2778	VV 2	563	11889	0.12%	0.016%
339	21.483	2778	2779	2784	VV 2	448	8147	0.08%	0.011%
340	21.548	2784	2788	2790	VV 2	541	9690	0.10%	0.013%
341	21.577	2790	2792	2794	VV 2	903	9844	0.10%	0.013%
342	21.620	2794	2798	2801	VV 2	694	13957	0.14%	0.018%
343	21.655	2801	2803	2811	VV 2	682	15066	0.15%	0.020%
344	21.720	2811	2812	2813	VV	261	2612	0.03%	0.003%
345	21.756	2813	2817	2825	VV 2	672	17867	0.18%	0.024%
346	21.856	2825	2831	2834	VV 2	884	14677	0.14%	0.019%
347	21.906	2834	2838	2840	VV 2	607	10427	0.10%	0.014%
348	21.935	2840	2842	2844	VV	672	7741	0.08%	0.010%
349	21.963	2844	2846	2847	VV	266	2494	0.02%	0.003%
350	22.014	2847	2853	2864	VV 2	475	21517	0.21%	0.028%
351	22.121	2864	2868	2871	VV	569	11749	0.12%	0.016%
352	22.157	2871	2873	2882	VV 2	376	10482	0.10%	0.014%
353	22.236	2882	2884	2886	VV 2	303	4082	0.04%	0.005%
354	22.257	2886	2887	2889	VV	551	5100	0.05%	0.007%
355	22.286	2889	2891	2895	VV 2	467	9565	0.09%	0.013%
356	22.350	2895	2900	2906	VV 2	668	19609	0.19%	0.026%
357	22.407	2906	2908	2916	VV 2	583	13510	0.13%	0.018%
358	22.486	2916	2919	2921	VV 2	388	6001	0.06%	0.008%
359	22.522	2921	2924	2927	VV 2	575	10231	0.10%	0.014%
360	22.558	2927	2929	2931	VV	440	4711	0.05%	0.006%
361	22.608	2931	2936	2939	VV 2	553	8623	0.08%	0.011%
362	22.672	2939	2945	2946	VV	398	7522	0.07%	0.010%
363	22.708	2946	2950	2952	VV 2	534	9188	0.09%	0.012%
364	22.737	2952	2954	2957	VV 2	577	8170	0.08%	0.011%
365	22.773	2957	2959	2961	VV 2	643	5549	0.05%	0.007%
366	22.794	2961	2962	2965	PV	535	6393	0.06%	0.008%
367	22.844	2965	2969	2975	VV 2	466	12190	0.12%	0.016%
368	22.895	2975	2976	2984	PV	749	10620	0.10%	0.014%

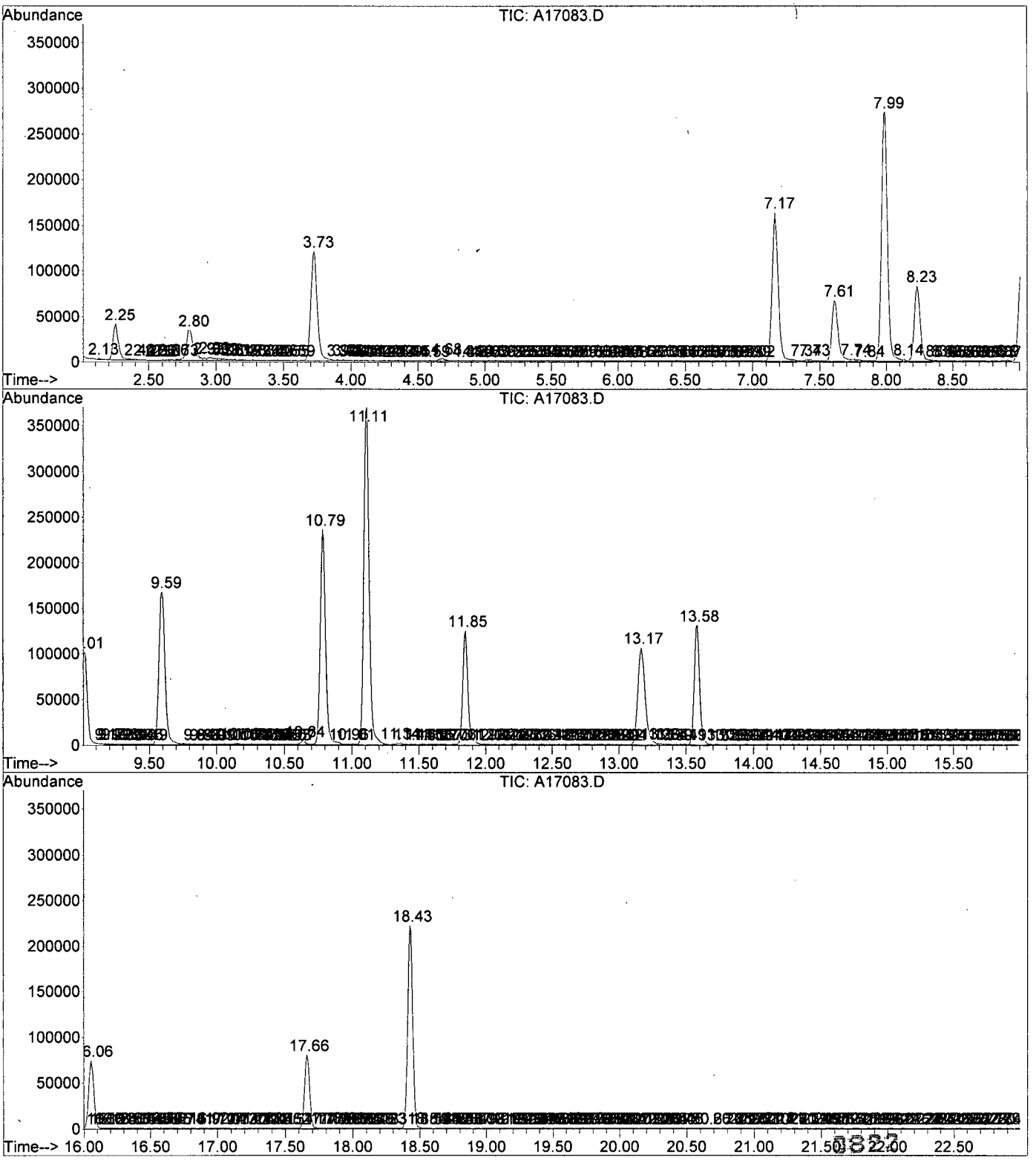
Sum of corrected areas: 75591806

0821

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

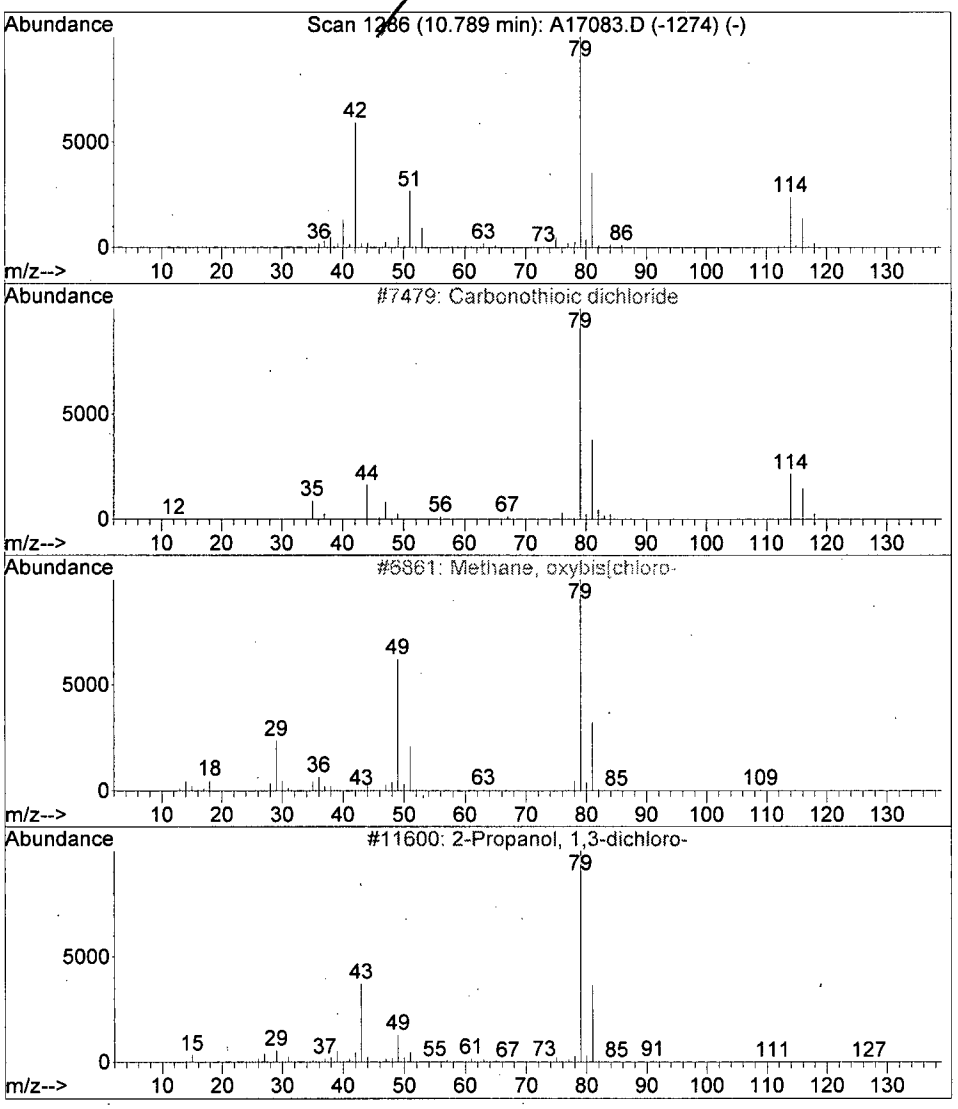
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

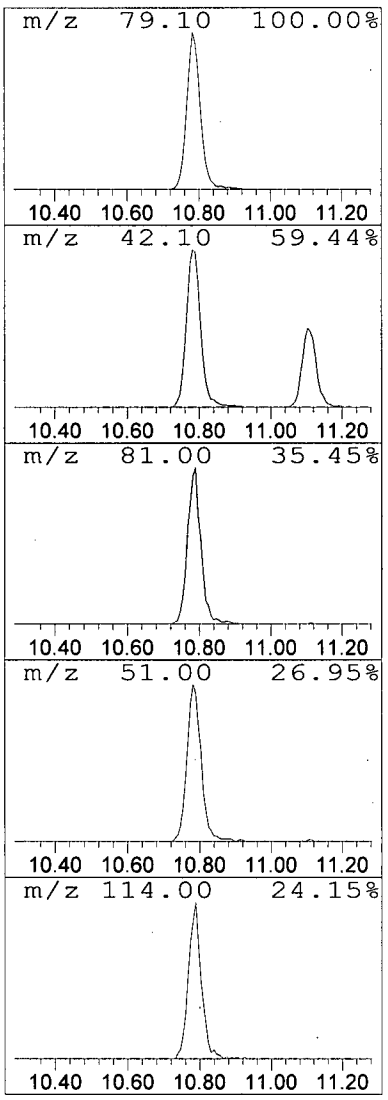
R 11/29/08

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	10.85 ug/L	6350870	1,4-Difluorobenzene	9.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
5	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	9





0823

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17083.D
Acq On : 11/28/08 10:41 Operator: SB
Sample : VHBLK01 Inst : A-5973
Misc : S-2066.18 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.79	10.9	ug/L	6350870	1	9.01	2925550	5.0

8824

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK12

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19520

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK12

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19520

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK12

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19520

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	1000	JB
02		Unknown-02	9.84	9.0	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 14:40:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration

11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.07	114	2948033	5.00	ug/L	0.00
28) Chlorobenzene-d5	12.64	117	2710924	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	16.73	152	980034	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2553673	6.09	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 121.80%			
7) Chloroethane-d5	2.39	69	1157101	6.08	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 121.60%			
10) 1,1-Dichloroethene-d2	3.12	63	4022031	4.77	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 95.40%			
21) 2-Butanone-d5	6.67	46	2489026	56.50	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 113.00%			
24) Chloroform-d	6.26	84	4501984	5.40	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 108.00%			
26) 1,2-Dichloroethane-d4	7.28	65	2266089	6.04	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 120.80%			
32) Benzene-d6	7.06	84	9098059	5.25	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 105.00%			
36) 1,2-Dichloropropane-d6	8.63	67	2755756	5.26	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 105.20%			
41) Toluene-d8	10.18	98	7975536	5.09	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 101.80%			
43) trans-1,3-Dichloropropene-	10.90	79	2257004	4.67	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 93.40%			
47) 2-Hexanone-d5	12.21	63	1632142	49.40	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 98.80%			
57) 1,1,2,2-Tetrachloroethane-	15.11	84	1446755	4.99	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 99.80%			
63) 1,2-Dichlorobenzene-d4	17.48	152	2033652	5.31	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 106.20%			

Target Compounds	Qvalue

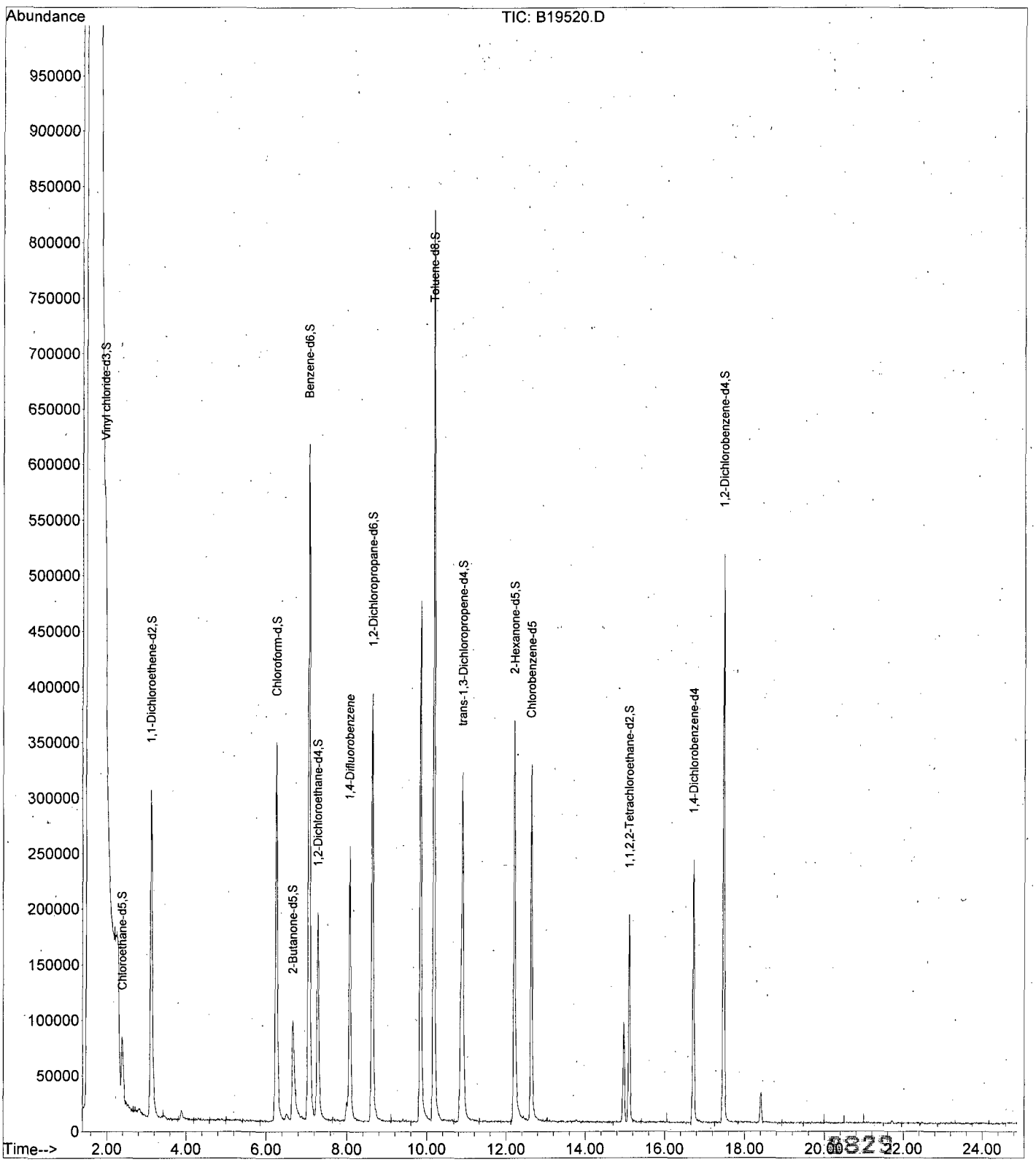
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0828

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 28 14:40:51 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Wed Nov 26 13:25:28 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.557	3	25	113	BV	17111671	1570170425	100.00%	87.456%
2	2.200	113	115	117	VV	165395	2862336	0.18%	0.159%
3	2.257	117	123	136	VV	162173	9673457	0.62%	0.539%
4	2.386	136	141	160	VV	68328	3122615	0.20%	0.174%
5	2.543	160	163	175	VV	8769	392518	0.02%	0.022%
6	2.644	175	177	179	VV 2	5778	80071	0.01%	0.004%
7	2.672	179	181	193	VV 3	7191	275448	0.02%	0.015%
8	2.822	193	202	203	VV 6	6707	205436	0.01%	0.011%
9	2.844	203	205	209	VV 2	6831	130720	0.01%	0.007%
10	2.879	209	210	218	VV 6	4091	106890	0.01%	0.006%
11	2.951	218	220	227	VV 4	2281	58894	0.00%	0.003%
12	3.123	227	244	268	VV 2	293391	10895945	0.69%	0.607%
13	3.308	268	270	278	VV 6	2833	84009	0.01%	0.005%
14	3.430	278	287	290	VV 2	7761	162510	0.01%	0.009%
15	3.459	290	291	298	VV 4	3782	94229	0.01%	0.005%
16	3.516	298	299	302	VV 2	1921	17114	0.00%	0.001%
17	3.566	302	306	310	VV 3	1711	30519	0.00%	0.002%
18	3.616	310	313	315	PV 2	2232	26760	0.00%	0.001%
19	3.637	315	316	318	VV 2	2090	17403	0.00%	0.001%
20	3.673	318	321	322	VV	1713	16895	0.00%	0.001%
21	3.702	322	325	328	VV 2	1722	30916	0.00%	0.002%
22	3.737	328	330	339	VV 2	2012	61142	0.00%	0.003%
23	3.816	339	341	344	PV	4004	37409	0.00%	0.002%
24	3.888	344	351	366	VV 4	9370	435907	0.03%	0.024%
25	4.002	366	367	371	VV 4	2397	52133	0.00%	0.003%
26	4.045	371	373	375	VV 2	2754	31416	0.00%	0.002%
27	4.074	375	377	379	VV 2	2372	24018	0.00%	0.001%
28	4.095	379	380	382	VV	2115	20869	0.00%	0.001%
29	4.138	382	386	391	VV 3	2125	46970	0.00%	0.003%
30	4.181	391	392	400	VV 2	2146	45594	0.00%	0.003%
31	4.252	400	402	406	VV 2	2625	44684	0.00%	0.002%
32	4.317	406	411	417	VV 4	3261	90683	0.01%	0.005%
33	4.374	417	419	422	VV 2	3018	35570	0.00%	0.002%
34	4.410	422	424	426	VV	1245	19283	0.00%	0.001%
35	4.438	426	428	434	VV 3	2149	46929	0.00%	0.003%
36	4.495	434	436	439	VV 2	1781	29928	0.00%	0.002%
37	4.524	439	440	442	VV 2	1924	19961	0.00%	0.001%
38	4.581	442	448	452	VV	2015	54100	0.00%	0.003%
39	4.624	452	454	457	VV	2522	33067	0.00%	0.002%
40	4.674	457	461	465	VV 2	2113	58192	0.00%	0.003%
41	4.717	465	467	472	VV 2	2167	44307	0.00%	0.002%
42	4.781	472	476	477	VV 3	2224	37742	0.00%	0.002%
43	4.803	477	479	483	VV	2955	50238	0.00%	0.003%
44	4.839	483	484	486	VV 2	2609	29609	0.00%	0.002%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.889	486	491	494	VV	3	2861	57978	0.00%	0.003%
46	4.924	494	496	501	VV	2	3026	57933	0.00%	0.003%
47	4.974	501	503	507	VV		1961	34527	0.00%	0.002%
48	5.017	507	509	513	PV	2	4282	49738	0.00%	0.003%
49	5.067	513	516	518	VV		2547	34409	0.00%	0.002%
50	5.089	518	519	524	VV		2447	44552	0.00%	0.002%
51	5.153	524	528	529	VV		2044	37508	0.00%	0.002%
52	5.182	529	532	536	VV	3	2257	47237	0.00%	0.003%
53	5.253	536	542	545	VV		2993	73745	0.00%	0.004%
54	5.289	545	547	549	VV	2	2411	33642	0.00%	0.002%
55	5.311	549	550	556	VV	2	2205	57165	0.00%	0.003%
56	5.368	556	558	565	VV	2	2362	52224	0.00%	0.003%
57	5.432	565	567	576	VV	2	3176	76799	0.00%	0.004%
58	5.518	576	579	590	VV	2	2540	92145	0.01%	0.005%
59	5.618	590	593	595	VV	2	2794	39344	0.00%	0.002%
60	5.690	595	603	609	VV	3	2305	94722	0.01%	0.005%
61	5.747	609	611	614	VV	2	2164	34335	0.00%	0.002%
62	5.782	614	616	621	VV		2270	49300	0.00%	0.003%
63	5.847	621	625	630	VV	2	2252	53785	0.00%	0.003%
64	5.897	630	632	634	VV		2576	33313	0.00%	0.002%
65	5.925	634	636	638	VV	2	1999	28506	0.00%	0.002%
66	5.983	638	644	646	VV	3	2657	64286	0.00%	0.004%
67	6.018	646	649	651	VV	3	2430	36760	0.00%	0.002%
68	6.126	651	664	666	VV	3	2322	95399	0.01%	0.005%
69	6.169	666	670	672	VV	2	2699	52801	0.00%	0.003%
70	6.254	672	682	709	VV	2	339678	11859688	0.76%	0.661%
71	6.505	709	717	728	VV	9	8518	455328	0.03%	0.025%
72	6.669	728	740	770	VV	2	92822	4607466	0.29%	0.257%
73	6.898	770	772	774	VV	2	6880	108426	0.01%	0.006%
74	6.927	774	776	781	VV	2	5460	123987	0.01%	0.007%
75	6.969	781	782	784	VV		5049	63220	0.00%	0.004%
76	7.062	784	795	817	VV		606917	20459384	1.30%	1.140%
77	7.284	817	826	845	VV	2	189576	6905402	0.44%	0.385%
78	7.434	845	847	851	VV	4	6445	142139	0.01%	0.008%
79	7.477	851	853	860	VV	3	4714	153304	0.01%	0.009%
80	7.541	860	862	865	VV		4379	61168	0.00%	0.003%
81	7.570	865	866	872	VV	2	4111	100671	0.01%	0.006%
82	7.634	872	875	877	VV	2	4141	73047	0.00%	0.004%
83	7.663	877	879	883	VV		5677	102322	0.01%	0.006%
84	7.706	883	885	889	VV	2	4325	69425	0.00%	0.004%
85	7.770	889	894	897	VV	4	4126	110624	0.01%	0.006%
86	7.813	897	900	902	VV		3676	66635	0.00%	0.004%
87	7.842	902	904	906	VV	2	2919	45783	0.00%	0.003%
88	7.870	906	908	910	VV	3	3380	42932	0.00%	0.002%
89	7.906	910	913	919	VV	2	3479	110813	0.01%	0.006%
90	8.006	919	927	929	VV	4	19650	458849	0.03%	0.026%
91	8.078	929	937	956	VV		246498	7890243	0.50%	0.434%

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	8.228	956	958	961	VV	2	5962	119725	0.01%	0.007%
93	8.271	961	964	969	VV	3	4797	124358	0.01%	0.007%
94	8.314	969	970	973	VV		3890	60869	0.00%	0.003%
95	8.357	973	976	981	VV	3	3458	101170	0.01%	0.006%
96	8.399	981	982	987	VV	2	3009	69451	0.00%	0.004%
97	8.450	987	989	993	VV		3412	85222	0.01%	0.005%
98	8.514	993	998	1000	VV		3194	83062	0.01%	0.005%
99	8.635	1000	1015	1036	VV		389355	12775536	0.81%	0.712%
100	8.793	1036	1037	1044	VV	4	5892	187476	0.01%	0.010%
101	8.850	1044	1045	1047	VV	2	5084	67863	0.00%	0.004%
102	8.886	1047	1050	1052	VV	2	4489	69265	0.00%	0.004%
103	8.914	1052	1054	1055	VV		4621	61545	0.00%	0.003%
104	8.943	1055	1058	1061	VV		3607	83863	0.01%	0.005%
105	8.986	1061	1064	1070	VV	2	3699	117250	0.01%	0.007%
106	9.057	1070	1074	1084	VV		3849	212981	0.01%	0.012%
107	9.172	1084	1090	1096	VV	2	4060	177721	0.01%	0.010%
108	9.236	1096	1099	1103	VV		3796	95746	0.01%	0.005%
109	9.293	1103	1107	1111	VV	2	3670	111362	0.01%	0.006%
110	9.336	1111	1113	1115	VV		3731	49091	0.00%	0.003%
111	9.408	1115	1123	1127	VV	4	5546	191127	0.01%	0.011%
112	9.458	1127	1130	1133	VV	3	3744	78654	0.01%	0.004%
113	9.493	1133	1135	1137	VV		4567	63447	0.00%	0.004%
114	9.522	1137	1139	1143	VV	2	3419	78097	0.00%	0.004%
115	9.558	1143	1144	1146	VV	2	3684	50187	0.00%	0.003%
116	9.579	1146	1147	1150	VV	2	3141	46159	0.00%	0.003%
117	9.615	1150	1152	1155	PV	2	3911	50921	0.00%	0.003%
118	9.687	1155	1162	1166	VV	2	3488	137101	0.01%	0.008%
119	9.844	1166	1184	1205	VV		468203	14129385	0.90%	0.787%
120	10.008	1205	1207	1216	VV	4	8148	317398	0.02%	0.018%
121	10.087	1216	1218	1221	VV		5786	114768	0.01%	0.006%
122	10.173	1221	1230	1257	VV		808065	22702946	1.45%	1.265%
123	10.373	1257	1258	1261	VV	2	5266	83558	0.01%	0.005%
124	10.416	1261	1264	1268	VV	4	5129	116683	0.01%	0.006%
125	10.452	1268	1269	1274	VV	4	5111	117263	0.01%	0.007%
126	10.494	1274	1275	1278	VV		4470	72530	0.00%	0.004%
127	10.537	1278	1281	1284	VV	2	4559	110032	0.01%	0.006%
128	10.580	1284	1287	1290	VV	2	4753	102439	0.01%	0.006%
129	10.616	1290	1292	1293	VV	2	3982	42776	0.00%	0.002%
130	10.645	1293	1296	1304	VV	4	4919	183501	0.01%	0.010%
131	10.716	1304	1306	1307	VV	2	3750	44360	0.00%	0.002%
132	10.759	1307	1312	1315	VV	2	4278	114714	0.01%	0.006%
133	10.895	1315	1331	1353	VV	2	313253	13461220	0.86%	0.750%
134	11.059	1353	1354	1358	VV	4	7182	149286	0.01%	0.008%
135	11.102	1358	1360	1362	VV	2	6454	91843	0.01%	0.005%
136	11.152	1362	1367	1369	VV	3	6018	170664	0.01%	0.010%
137	11.188	1369	1372	1374	VV		5335	86777	0.01%	0.005%
138	11.217	1374	1376	1379	VV	3	5178	107476	0.01%	0.006%
139	11.252	1379	1381	1395	VV		5146	263762	0.02%	0.015%

0882

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.410	1395	1403	1405	VV 3	4281	152966	0.01%	0.009%
141	11.496	1405	1415	1418	VV 3	4486	223687	0.01%	0.012%
142	11.560	1418	1424	1426	VV 2	3617	103903	0.01%	0.006%
143	11.603	1426	1430	1433	VV	4074	98515	0.01%	0.005%
144	11.639	1433	1435	1439	VV	4296	91601	0.01%	0.005%
145	11.681	1439	1441	1446	VV 2	3628	111627	0.01%	0.006%
146	11.731	1446	1448	1453	VV 3	4188	113704	0.01%	0.006%
147	11.789	1453	1456	1458	VV 2	4021	71176	0.00%	0.004%
148	11.824	1458	1461	1463	VV 2	4303	82697	0.01%	0.005%
149	11.867	1463	1467	1469	VV	4645	81821	0.01%	0.005%
150	11.910	1469	1473	1475	VV 2	3781	82992	0.01%	0.005%
151	11.946	1475	1478	1480	VV 3	3841	80005	0.01%	0.004%
152	11.975	1480	1482	1483	VV 2	3453	42441	0.00%	0.002%
153	12.017	1483	1488	1493	VV 2	4192	150187	0.01%	0.008%
154	12.068	1493	1495	1496	VV	3473	43114	0.00%	0.002%
155	12.089	1496	1498	1501	VV 2	3998	71443	0.00%	0.004%
156	12.211	1501	1515	1537	VV 2	359838	11405199	0.73%	0.635%
157	12.382	1537	1539	1546	VV 8	9043	291478	0.02%	0.016%
158	12.447	1546	1548	1553	VV 4	8261	195540	0.01%	0.011%
159	12.489	1553	1554	1556	VV 2	6475	85595	0.01%	0.005%
160	12.525	1556	1559	1562	VV 4	6292	146333	0.01%	0.008%
161	12.640	1562	1575	1605	VV	327484	9790007	0.62%	0.545%
162	12.861	1605	1606	1614	VV 5	5229	187256	0.01%	0.010%
163	12.933	1614	1616	1620	VV 2	5772	98796	0.01%	0.006%
164	12.976	1620	1622	1626	VV 3	4206	113068	0.01%	0.006%
165	13.033	1626	1630	1639	VV 4	6351	238852	0.02%	0.013%
166	13.104	1639	1640	1647	VV 3	5195	135872	0.01%	0.008%
167	13.176	1647	1650	1656	VV 3	4246	140350	0.01%	0.008%
168	13.233	1656	1658	1660	VV	4359	66805	0.00%	0.004%
169	13.262	1660	1662	1666	VV 2	3744	88683	0.01%	0.005%
170	13.305	1666	1668	1669	VV	3365	51521	0.00%	0.003%
171	13.333	1669	1672	1673	VV 2	3685	56026	0.00%	0.003%
172	13.390	1673	1680	1682	VV 3	4566	133559	0.01%	0.007%
173	13.419	1682	1684	1685	VV	4137	42655	0.00%	0.002%
174	13.440	1685	1687	1691	VV	4073	88182	0.01%	0.005%
175	13.476	1691	1692	1696	VV 2	3499	77483	0.00%	0.004%
176	13.540	1696	1701	1702	VV 3	3736	77968	0.00%	0.004%
177	13.555	1702	1703	1712	VV 3	4019	150265	0.01%	0.008%
178	13.633	1712	1714	1719	VV	4349	95981	0.01%	0.005%
179	13.676	1719	1720	1725	VV 2	4005	92653	0.01%	0.005%
180	13.734	1725	1728	1730	VV 3	4306	87751	0.01%	0.005%
181	13.776	1730	1734	1735	VV 2	5194	87901	0.01%	0.005%
182	13.798	1735	1737	1742	VV 2	5070	118199	0.01%	0.007%
183	13.877	1742	1748	1751	VV 3	4109	123624	0.01%	0.007%
184	13.912	1751	1753	1755	VV 2	3800	51049	0.00%	0.003%
185	13.948	1755	1758	1761	VV 2	4373	84464	0.01%	0.005%
186	13.984	1761	1763	1765	VV	3740	49660	0.00%	0.003%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.012	1765	1767	1770	VV 2	3789	80100	0.01%	0.004%
188	14.055	1770	1773	1776	VV 2	4166	76909	0.00%	0.004%
189	14.091	1776	1778	1783	VV 2	3917	97271	0.01%	0.005%
190	14.141	1783	1785	1792	VV 2	3902	118906	0.01%	0.007%
191	14.198	1792	1793	1800	VV 2	3945	114849	0.01%	0.006%
192	14.291	1800	1806	1808	VV 2	3885	111094	0.01%	0.006%
193	14.320	1808	1810	1818	VV 2	4091	138668	0.01%	0.008%
194	14.391	1818	1820	1822	VV 2	3455	42555	0.00%	0.002%
195	14.413	1822	1823	1826	VV	3435	54691	0.00%	0.003%
196	14.456	1826	1829	1845	VV 3	3669	247997	0.02%	0.014%
197	14.613	1845	1851	1853	VV	4029	102244	0.01%	0.006%
198	14.642	1853	1855	1859	VV 3	3752	75709	0.00%	0.004%
199	14.692	1859	1862	1864	VV 2	3957	58937	0.00%	0.003%
200	14.742	1864	1869	1874	VV 2	3942	127973	0.01%	0.007%
201	14.799	1874	1877	1879	VV	4547	70177	0.00%	0.004%
202	14.820	1879	1880	1882	VV 2	3351	52735	0.00%	0.003%
203	14.849	1882	1884	1885	VV 2	3285	38376	0.00%	0.002%
204	14.870	1885	1887	1889	VV 2	3571	51916	0.00%	0.003%
205	14.978	1889	1902	1912	VV	92615	2830170	0.18%	0.158%
206	15.114	1912	1921	1935	VV	188041	5297960	0.34%	0.295%
207	15.228	1935	1937	1939	VV 2	5182	80413	0.01%	0.004%
208	15.257	1939	1941	1944	VV	4324	79866	0.01%	0.004%
209	15.292	1944	1946	1953	VV 3	4424	115802	0.01%	0.006%
210	15.357	1953	1955	1959	VV 3	3852	82839	0.01%	0.005%
211	15.400	1959	1961	1963	VV	4279	61134	0.00%	0.003%
212	15.428	1963	1965	1972	VV 2	5077	125713	0.01%	0.007%
213	15.500	1972	1975	1979	VV 2	3269	87519	0.01%	0.005%
214	15.543	1979	1981	1984	VV 2	3590	58549	0.00%	0.003%
215	15.578	1984	1986	1990	VV 2	3740	88572	0.01%	0.005%
216	15.628	1990	1993	1994	VV	3895	51026	0.00%	0.003%
217	15.643	1994	1995	1997	VV	3488	37011	0.00%	0.002%
218	15.671	1997	1999	2001	VV	3509	49077	0.00%	0.003%
219	15.693	2001	2002	2004	VV	3504	45613	0.00%	0.003%
220	15.736	2004	2008	2017	VV 2	3989	166198	0.01%	0.009%
221	15.836	2017	2022	2024	VV 2	3406	90828	0.01%	0.005%
222	15.871	2024	2027	2030	VV 2	3804	87588	0.01%	0.005%
223	15.907	2030	2032	2040	VV 2	4057	138769	0.01%	0.008%
224	15.979	2040	2042	2045	VV 2	4006	75522	0.00%	0.004%
225	16.007	2045	2046	2048	VV 2	3245	35116	0.00%	0.002%
226	16.036	2048	2050	2051	VV	3250	44098	0.00%	0.002%
227	16.057	2051	2053	2055	VV	8998	84466	0.01%	0.005%
228	16.086	2055	2057	2061	VV	3836	86427	0.01%	0.005%
229	16.129	2061	2063	2065	VV	4204	53207	0.00%	0.003%
230	16.157	2065	2067	2072	VV 3	3449	94670	0.01%	0.005%
231	16.236	2072	2078	2082	VV 2	3469	131140	0.01%	0.007%
232	16.272	2082	2083	2086	VV	3409	51079	0.00%	0.003%
233	16.308	2086	2088	2093	VV 2	3475	95369	0.01%	0.005%
234	16.365	2093	2096	2098	VV 2	3402	73572	0.00%	0.004%

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.393	2098	2100	2101	VV 2	3289	41715	0.00%	0.002%
236	16.479	2101	2112	2121	VV 2	3807	266689	0.02%	0.015%
237	16.565	2121	2124	2126	VV	3768	60467	0.00%	0.003%
238	16.586	2126	2127	2133	VV	3388	92148	0.01%	0.005%
239	16.722	2133	2146	2166	VV	237797	6676521	0.43%	0.372%
240	16.880	2166	2168	2173	VV 2	5319	132402	0.01%	0.007%
241	16.923	2173	2174	2179	VV	4066	94475	0.01%	0.005%
242	16.980	2179	2182	2188	VV 3	4247	128353	0.01%	0.007%
243	17.051	2188	2192	2197	VV 4	3599	127762	0.01%	0.007%
244	17.108	2197	2200	2203	VV 2	3701	72168	0.00%	0.004%
245	17.159	2203	2207	2210	VV 3	3237	90163	0.01%	0.005%
246	17.194	2210	2212	2216	VV 3	3965	78785	0.01%	0.004%
247	17.237	2216	2218	2220	VV 2	3909	55468	0.00%	0.003%
248	17.266	2220	2222	2224	PV 2	4128	53622	0.00%	0.003%
249	17.294	2224	2226	2234	VV 2	4213	132990	0.01%	0.007%
250	17.373	2234	2237	2239	VV 2	4054	66055	0.00%	0.004%
251	17.473	2239	2251	2264	VV	503786	13379890	0.85%	0.745%
252	17.580	2264	2266	2272	VV 4	6146	163605	0.01%	0.009%
253	17.645	2272	2275	2277	VV 2	4367	81399	0.01%	0.005%
254	17.673	2277	2279	2281	VV 2	4617	64480	0.00%	0.004%
255	17.695	2281	2282	2286	VV 2	4021	88546	0.01%	0.005%
256	17.759	2286	2291	2297	VV 2	4176	167218	0.01%	0.009%
257	17.816	2297	2299	2305	VV	4215	119643	0.01%	0.007%
258	17.874	2305	2307	2313	VV 3	3808	116126	0.01%	0.006%
259	17.931	2313	2315	2319	VV	4138	83005	0.01%	0.005%
260	17.966	2319	2320	2322	VV 2	3774	48472	0.00%	0.003%
261	18.009	2322	2326	2327	VV 2	3950	79963	0.01%	0.004%
262	18.045	2327	2331	2334	VV 2	4035	99587	0.01%	0.006%
263	18.088	2334	2337	2339	VV	4172	72344	0.00%	0.004%
264	18.145	2339	2345	2355	VV 3	3987	227326	0.01%	0.013%
265	18.238	2355	2358	2366	VV 2	3413	140086	0.01%	0.008%
266	18.338	2366	2372	2374	VV 2	3653	100503	0.01%	0.006%
267	18.410	2374	2382	2389	VV 3	29586	920911	0.06%	0.051%
268	18.488	2389	2393	2398	VV 2	3927	124498	0.01%	0.007%
269	18.538	2398	2400	2405	VV 2	3853	113162	0.01%	0.006%
270	18.589	2405	2407	2410	VV	3683	73314	0.00%	0.004%
271	18.624	2410	2412	2414	VV 2	3574	46431	0.00%	0.003%
272	18.653	2414	2416	2421	VV 2	3227	85990	0.01%	0.005%
273	18.696	2421	2422	2430	VV 3	3006	105883	0.01%	0.006%
274	18.767	2430	2432	2435	VV 2	3690	69065	0.00%	0.004%
275	18.810	2435	2438	2442	VV 2	3679	84508	0.01%	0.005%
276	18.860	2442	2445	2450	VV 2	3482	96414	0.01%	0.005%
277	18.946	2450	2457	2460	VV	5708	137092	0.01%	0.008%
278	18.982	2460	2462	2464	VV	3407	52713	0.00%	0.003%
279	19.018	2464	2467	2470	VV	3923	79333	0.01%	0.004%
280	19.053	2470	2472	2474	VV 2	3513	53049	0.00%	0.003%
281	19.082	2474	2476	2477	VV 2	3041	36129	0.00%	0.002%

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.103	2477	2479	2483	VV 2	3587	76714	0.00%	0.004%
283	19.161	2483	2487	2489	VV	4179	77341	0.00%	0.004%
284	19.196	2489	2492	2496	VV 2	3482	79876	0.01%	0.004%
285	19.254	2496	2500	2502	VV	3413	79109	0.01%	0.004%
286	19.275	2502	2503	2506	VV 2	2923	42984	0.00%	0.002%
287	19.339	2506	2512	2515	VV 3	3476	121150	0.01%	0.007%
288	19.368	2515	2516	2518	VV	3407	40387	0.00%	0.002%
289	19.418	2518	2523	2528	VV 2	3943	127907	0.01%	0.007%
290	19.468	2528	2530	2544	VV 2	2625	170958	0.01%	0.010%
291	19.582	2544	2546	2548	VV	3473	54787	0.00%	0.003%
292	19.625	2548	2552	2557	VV 2	3674	104647	0.01%	0.006%
293	19.697	2557	2562	2568	VV 3	3790	137070	0.01%	0.008%
294	19.754	2568	2570	2575	VV 2	3044	88987	0.01%	0.005%
295	19.811	2575	2578	2581	VV 2	3364	67594	0.00%	0.004%
296	19.840	2581	2582	2588	VV 2	3367	88433	0.01%	0.005%
297	19.890	2588	2589	2591	VV 2	2709	32771	0.00%	0.002%
298	19.911	2591	2592	2594	VV	3738	41154	0.00%	0.002%
299	19.947	2594	2597	2599	VV 2	2790	47275	0.00%	0.003%
300	20.004	2599	2605	2606	VV	8358	117186	0.01%	0.007%
301	20.047	2606	2611	2614	VV 2	3913	101357	0.01%	0.006%
302	20.083	2614	2616	2620	VV 2	3489	85064	0.01%	0.005%
303	20.133	2620	2623	2626	VV	3641	71594	0.00%	0.004%
304	20.169	2626	2628	2634	VV	3117	84409	0.01%	0.005%
305	20.226	2634	2636	2639	VV 2	2992	57173	0.00%	0.003%
306	20.262	2639	2641	2643	VV 2	3339	42719	0.00%	0.002%
307	20.290	2643	2645	2649	VV 2	3100	63001	0.00%	0.004%
308	20.355	2649	2654	2658	VV	3030	99627	0.01%	0.006%
309	20.398	2658	2660	2664	VV	3113	68315	0.00%	0.004%
310	20.455	2664	2668	2670	VV 2	3013	62086	0.00%	0.003%
311	20.505	2670	2675	2677	VV	8064	115647	0.01%	0.006%
312	20.541	2677	2680	2682	VV 2	2924	58413	0.00%	0.003%
313	20.569	2682	2684	2692	VV 2	3428	122376	0.01%	0.007%
314	20.648	2692	2695	2697	VV 2	3645	64395	0.00%	0.004%
315	20.676	2697	2699	2703	VV 2	3279	73215	0.00%	0.004%
316	20.719	2703	2705	2708	VV	2852	54220	0.00%	0.003%
317	20.762	2708	2711	2713	VV 2	3606	61037	0.00%	0.003%
318	20.805	2713	2717	2724	VV	3194	121262	0.01%	0.007%
319	20.869	2724	2726	2729	VV 2	3487	68005	0.00%	0.004%
320	20.927	2729	2734	2742	VV 2	2986	140820	0.01%	0.008%
321	20.998	2742	2744	2747	VV	8677	95287	0.01%	0.005%
322	21.034	2747	2749	2751	VV 2	3146	47495	0.00%	0.003%
323	21.070	2751	2754	2758	VV 2	3619	89059	0.01%	0.005%
324	21.120	2758	2761	2766	VV 2	3569	90316	0.01%	0.005%
325	21.163	2766	2767	2773	VV 2	2636	82548	0.01%	0.005%
326	21.256	2773	2780	2782	VV 2	3572	94991	0.01%	0.005%
327	21.284	2782	2784	2785	VV 2	2653	33223	0.00%	0.002%
328	21.306	2785	2787	2792	VV	2714	71672	0.00%	0.004%
329	21.356	2792	2794	2796	VV 2	3270	39391	0.00%	0.002%

0236

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 - 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.377	2796	2797	2802	VV 2	3077	68440	0.00%	0.004%
331	21.420	2802	2803	2816	VV 2	2860	136835	0.01%	0.008%
332	21.527	2816	2818	2819	VV	2510	33428	0.00%	0.002%
333	21.556	2819	2822	2825	VV 2	2868	68132	0.00%	0.004%
334	21.613	2825	2830	2840	VV 2	3475	152366	0.01%	0.008%
335	21.720	2840	2845	2854	VV 2	5016	215912	0.01%	0.012%
336	21.806	2854	2857	2860	VV 2	2833	62944	0.00%	0.004%
337	21.856	2860	2864	2872	VV 2	3258	136854	0.01%	0.008%
338	21.928	2872	2874	2881	VV	3325	91002	0.01%	0.005%
339	22.014	2881	2886	2893	VV 2	2888	123331	0.01%	0.007%
340	22.092	2893	2897	2902	VV 2	2806	108290	0.01%	0.006%
341	22.142	2902	2904	2906	VV 2	3464	42977	0.00%	0.002%
342	22.185	2906	2910	2915	VV	2747	95459	0.01%	0.005%
343	22.235	2915	2917	2920	VV 2	2851	64861	0.00%	0.004%
344	22.278	2920	2923	2931	VV 2	2781	109297	0.01%	0.006%
345	22.350	2931	2933	2934	VV	3499	48209	0.00%	0.003%
346	22.371	2934	2936	2946	VV 3	3359	119692	0.01%	0.007%
347	22.478	2946	2951	2953	VV	3426	77792	0.00%	0.004%
348	22.507	2953	2955	2962	VV 2	3054	97481	0.01%	0.005%
349	22.571	2962	2964	2969	VV 2	2907	72720	0.00%	0.004%
350	22.614	2969	2970	2972	VV	2979	38037	0.00%	0.002%
351	22.643	2972	2974	2976	VV 2	2800	36530	0.00%	0.002%
352	22.664	2976	2977	2987	VV 2	3609	142101	0.01%	0.008%
353	22.743	2987	2988	2990	VV	2881	30281	0.00%	0.002%
354	22.771	2990	2992	2996	VV	2787	62679	0.00%	0.003%
355	22.821	2996	2999	3006	VV 2	3204	105779	0.01%	0.006%
356	22.886	3006	3008	3011	PV 2	3386	37949	0.00%	0.002%
357	22.950	3011	3017	3018	VV 2	3552	80688	0.01%	0.004%
358	22.972	3018	3020	3034	VV 3	2880	182540	0.01%	0.010%
359	23.093	3034	3037	3044	VV 2	3339	108240	0.01%	0.006%
360	23.158	3044	3046	3052	VV 2	3163	89195	0.01%	0.005%
361	23.222	3052	3055	3059	VV 2	3911	83698	0.01%	0.005%
362	23.265	3059	3061	3064	VV 3	3109	62757	0.00%	0.003%
363	23.315	3064	3068	3078	VV	5110	156510	0.01%	0.009%
364	23.401	3078	3080	3084	VV 2	2862	74149	0.00%	0.004%
365	23.458	3084	3088	3094	VV 2	3142	102758	0.01%	0.006%
366	23.522	3094	3097	3103	VV 2	2542	75724	0.00%	0.004%
367	23.587	3103	3106	3107	VV	2919	43660	0.00%	0.002%
368	23.608	3107	3109	3111	VV	3212	41509	0.00%	0.002%
369	23.651	3111	3115	3121	VV 2	3033	101887	0.01%	0.006%
370	23.715	3121	3124	3126	VV	2470	40887	0.00%	0.002%
371	23.744	3126	3128	3130	VV	3000	32384	0.00%	0.002%
372	23.772	3130	3132	3134	VV 2	2632	40498	0.00%	0.002%
373	23.808	3134	3137	3139	VV 2	2772	48788	0.00%	0.003%
374	23.830	3139	3140	3142	VV 2	2906	35635	0.00%	0.002%
375	23.865	3142	3145	3147	VV 2	3318	58565	0.00%	0.003%
376	23.894	3147	3149	3155	VV 2	2960	75123	0.00%	0.004%

0837

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

377	23.958	3155	3158	3160	VV 2	2846	47619	0.00%	0.003%
378	23.987	3160	3162	3164	VV	3111	35969	0.00%	0.002%
379	24.023	3164	3167	3171	VV 2	3096	79439	0.01%	0.004%
380	24.066	3171	3173	3176	VV 2	2751	52500	0.00%	0.003%
381	24.094	3176	3177	3185	VV 3	2561	85947	0.01%	0.005%
382	24.173	3185	3188	3192	VV	4412	78510	0.01%	0.004%
383	24.223	3192	3195	3201	VV 2	3030	93821	0.01%	0.005%
384	24.280	3201	3203	3205	VV 2	2670	31222	0.00%	0.002%
385	24.302	3205	3206	3209	VV 2	2302	35353	0.00%	0.002%
386	24.337	3209	3211	3212	VV	2903	32128	0.00%	0.002%
387	24.373	3212	3216	3219	VV 2	3304	75967	0.00%	0.004%
388	24.416	3219	3222	3230	VV 3	2860	101018	0.01%	0.006%
389	24.509	3230	3235	3238	VV 3	3602	85150	0.01%	0.005%
390	24.552	3238	3241	3246	VV 2	2793	85906	0.01%	0.005%
391	24.602	3246	3248	3249	PV	2616	24582	0.00%	0.001%
392	24.638	3249	3253	3255	VV 2	2635	56439	0.00%	0.003%
393	24.666	3255	3257	3258	VV	2510	32976	0.00%	0.002%
394	24.709	3258	3263	3266	VV 2	2265	58784	0.00%	0.003%
395	24.752	3266	3269	3272	VV 2	1996	32793	0.00%	0.002%
396	24.788	3272	3274	3275	VV	525	4184	0.00%	0.000%
397	24.809	3275	3277	3279	VV	635	4634	0.00%	0.000%

Sum of corrected areas: 1795380595

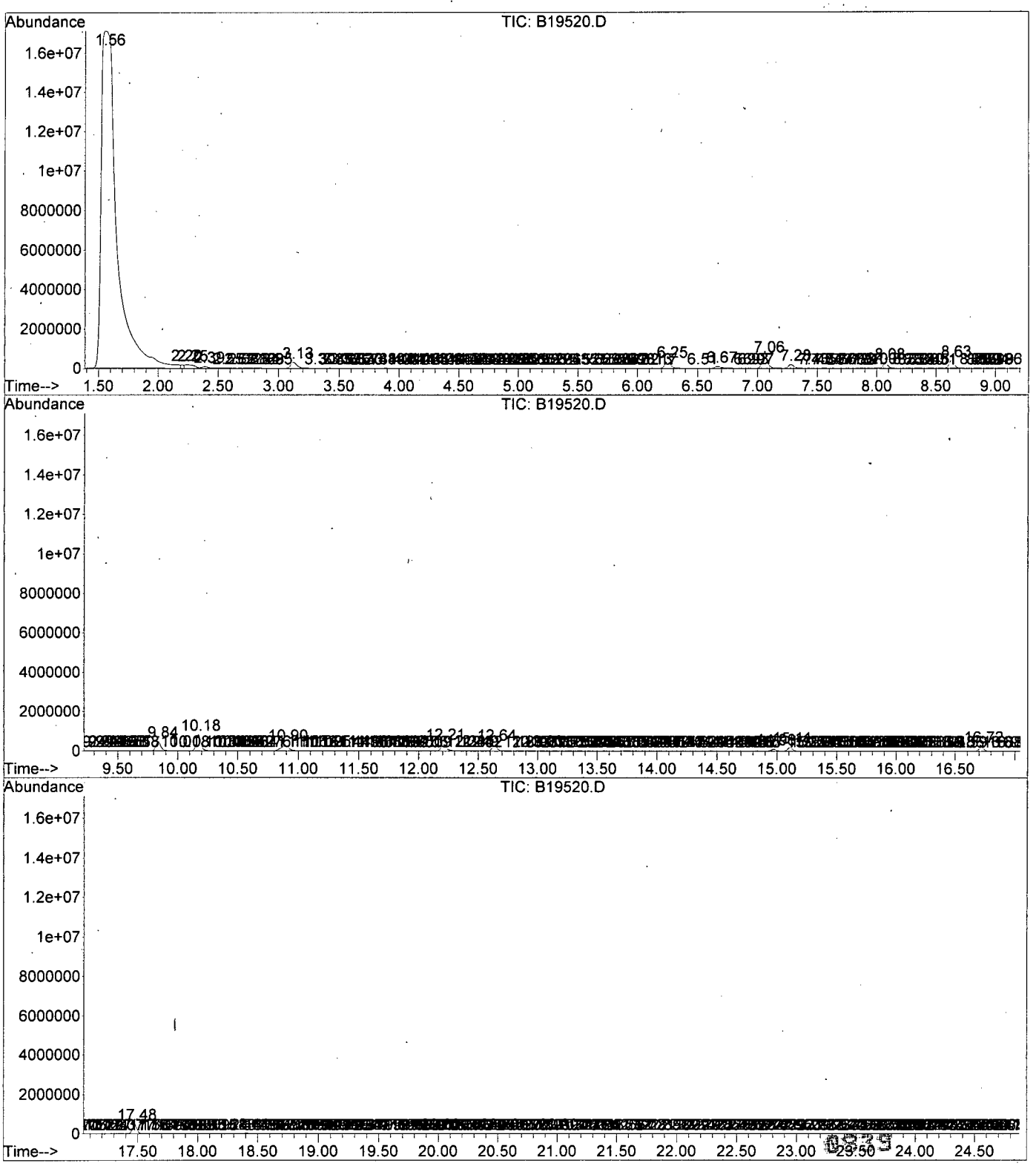
0838

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

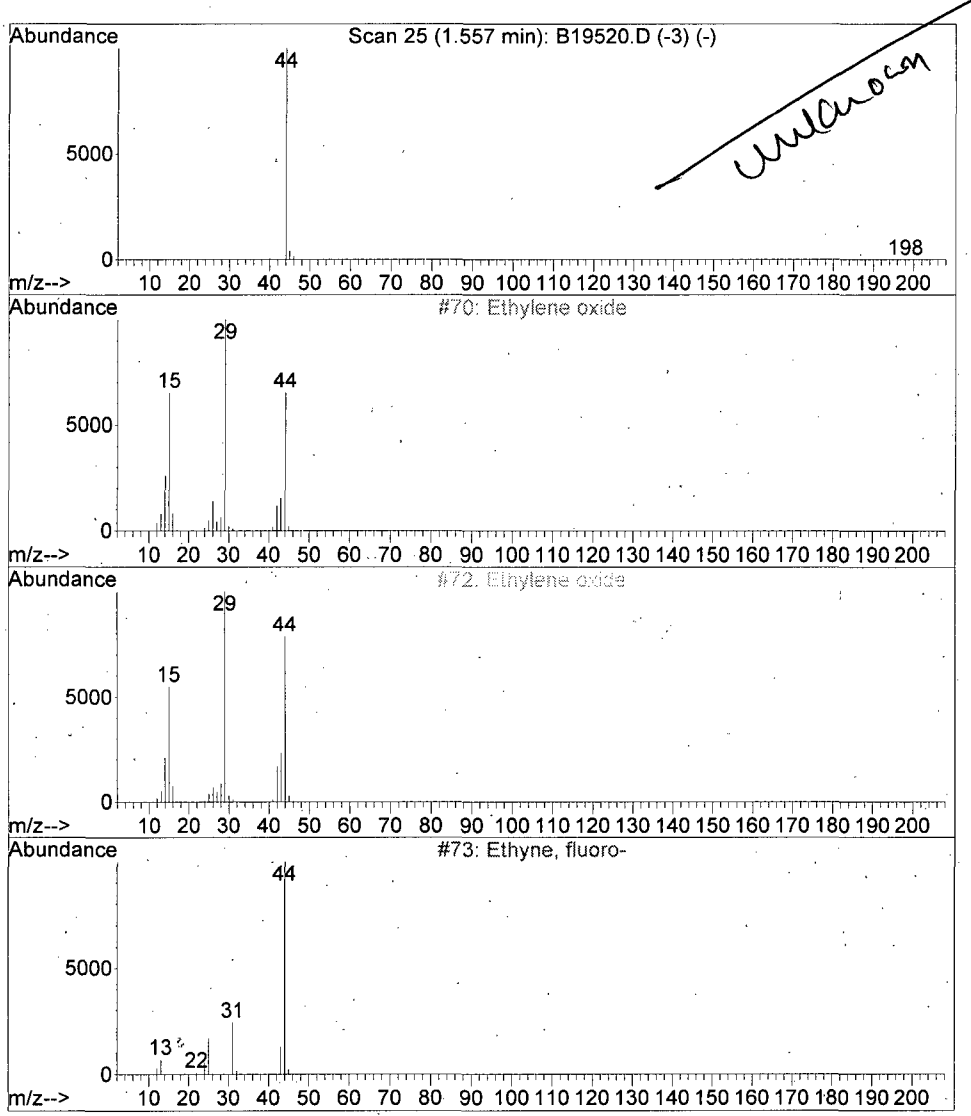
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

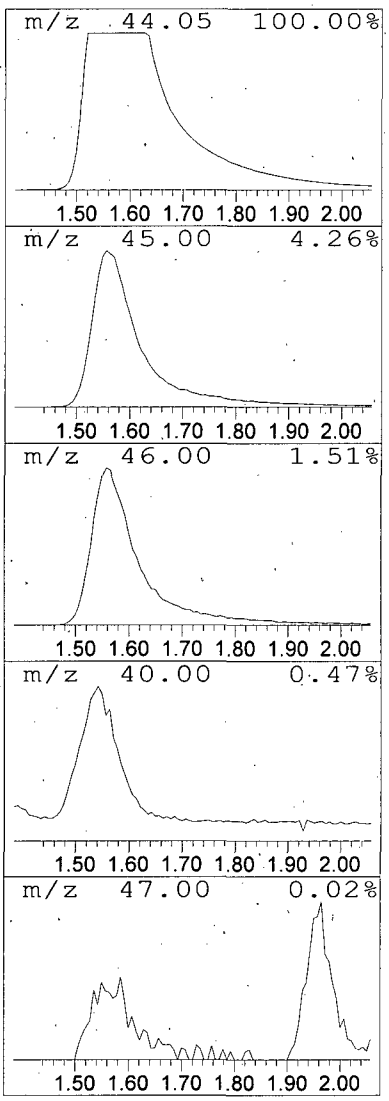
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	995.01 ug/L	1570170000	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3





0840

Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

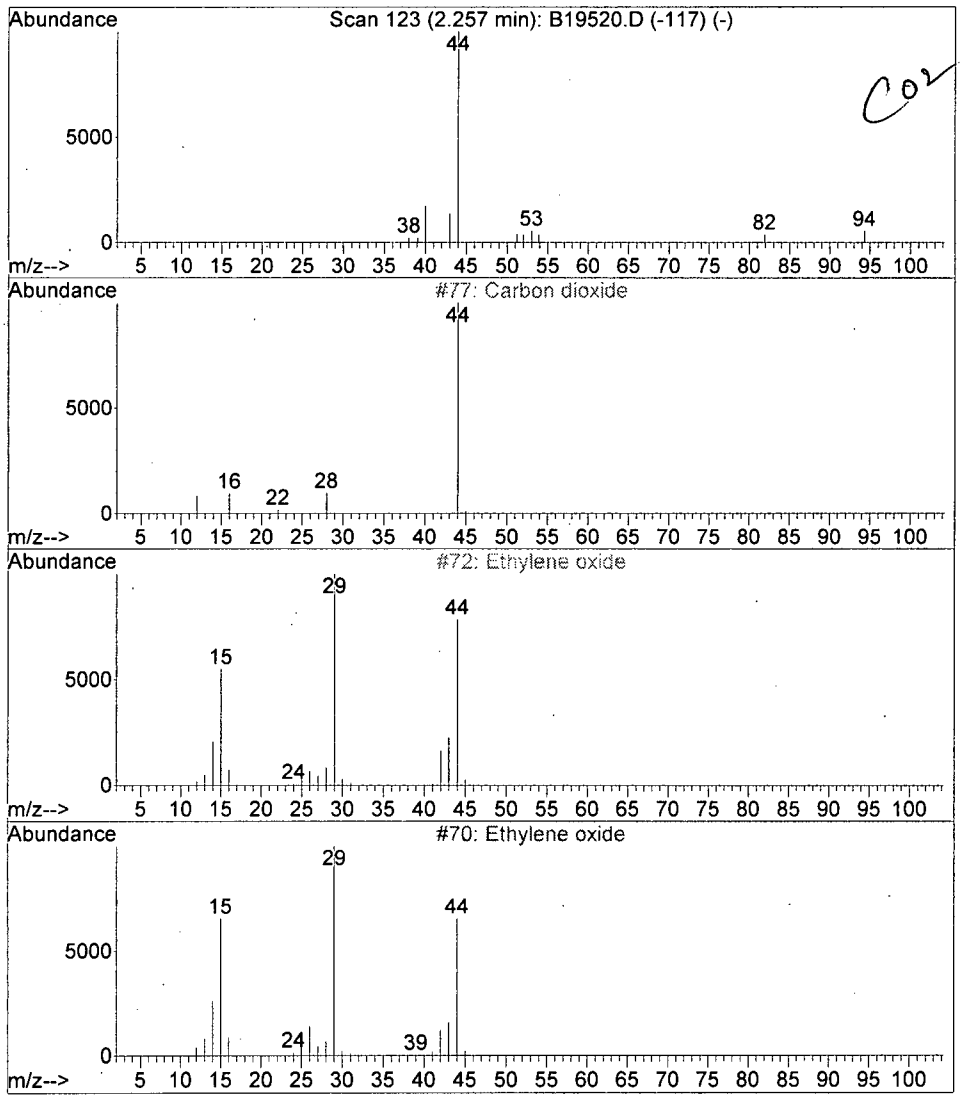
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

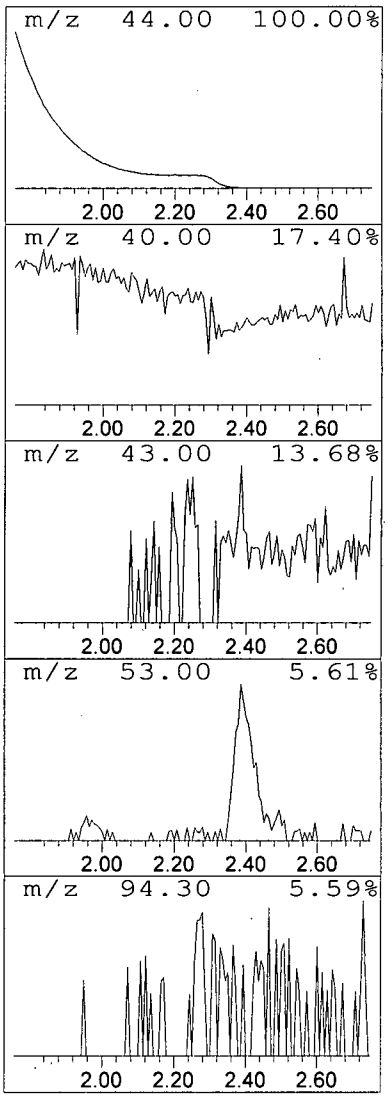
****

Peak Number 2 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.25	6.13 ug/L	9673460	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	3
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethyne, fluoro-	44	C2HF	002713-09-9	3
5	Benzenemethanol, 3-hydroxy-.alph...	167	C9H13NO2	000059-42-7	2





0841

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

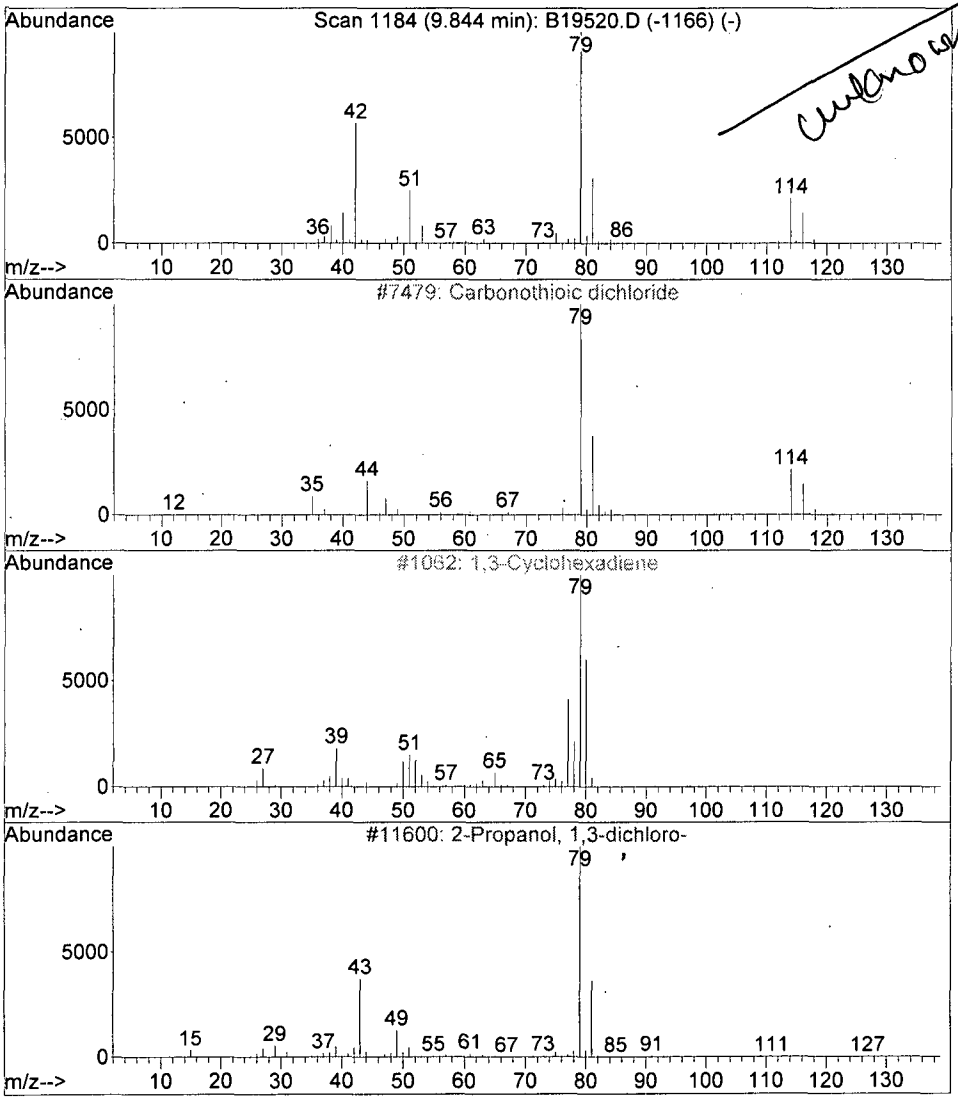
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

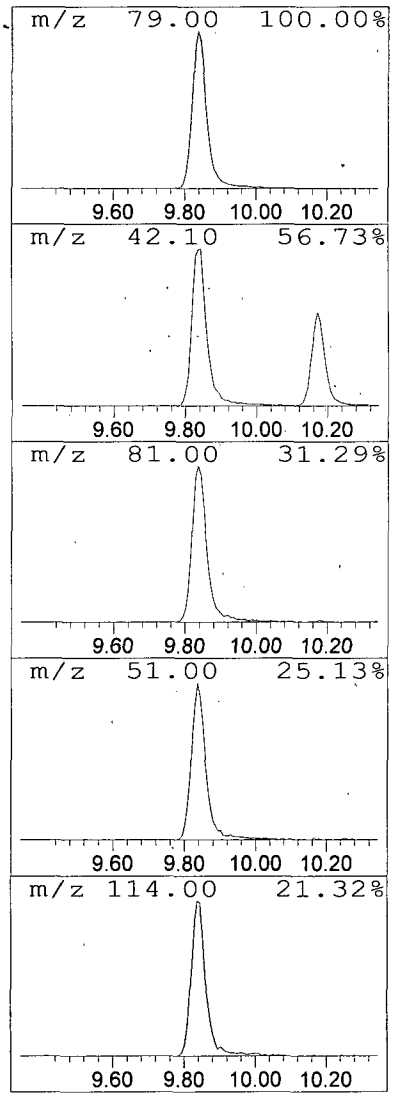
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	8.95 ug/L	14129400	1,4-Difluorobenzene	8.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	37
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	32
4	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
5	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23





0842

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19520.D
Acq On : 11/26/08 11:16 Operator: SB
Sample : VIBLK12 Inst : B-5973
Misc : VIBLK12 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	995.0	ug/L	1570170000	1	8.07	7890240	5.0
Carbon dioxide	2.25	6.1	ug/L	9673460	1	8.07	7890240	5.0
Carbonothioic dic...	9.84	9.0	ug/L	14129400	1	8.07	7890240	5.0

0843

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK13

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK13

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19525

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.042	J
75-01-4	Vinyl chloride	0.0063	J
74-83-9	Bromomethane	0.0061	J
75-00-3	Chloroethane	0.022	J
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.099	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	0.16	J
75-15-0	Carbon disulfide	0.010	J
79-20-9	Methyl acetate	0.029	J
75-09-2	Methylene chloride	0.16	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.024	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.034	J
71-43-2	Benzene	0.063	J
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VIBLK13

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK13

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19525

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.10	J
108-87-2	Methylcyclohexane	0.010	J
78-87-5	1,2-Dichloropropane	0.025	J
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.022	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.045	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.0067	J
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.011	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.0052	J
106-46-7	1,4-Dichlorobenzene	0.012	J
95-50-1	1,2-Dichlorobenzene	0.0090	J
96-12-8	1,2-Dibromo-3-chloropropane	0.033	J
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK13

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK13

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: B19525

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	920	JB
02		Unknown-02	2.25	10	J
03		Unknown-03	9.85	9.1	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 14:45:11 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 07:46:36 2008
Response via : Initial Calibration

11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.08	114	2857634	5.00	ug/L	0.01
28) Chlorobenzene-d5	12.65	117	2635675	5.00	ug/L	0.01
59) 1,4-Dichlorobenzene-d4	16.73	152	951003	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	1.96	65	2486736	6.12	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 122.40%			
7) Chloroethane-d5	2.39	69	1009489	5.48	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 109.60%			
10) 1,1-Dichloroethene-d2	3.13	63	4237974	5.19	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 103.80%			
21) 2-Butanone-d5	6.68	46	2275739	53.29	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 106.58%			
24) Chloroform-d	6.26	84	4625074	5.73	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 114.60%			
26) 1,2-Dichloroethane-d4	7.29	65	2304443	6.34	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 126.80%			
32) Benzene-d6	7.07	84	9229942	5.48	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 109.60%			
36) 1,2-Dichloropropane-d6	8.64	67	2730219	5.36	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 107.20%			
41) Toluene-d8	10.19	98	8021583	5.26	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 105.20%			
43) trans-1,3-Dichloropropene-	10.91	79	2391134	5.09	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 101.80%			
47) 2-Hexanone-d5	12.21	63	1533196m	47.73	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 95.46%			
57) 1,1,2,2-Tetrachloroethane-	15.12	84	1476574	5.24	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 104.80%			
63) 1,2-Dichlorobenzene-d4	17.49	152	2027662	5.46	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 109.20%			

Target Compounds Qvalue

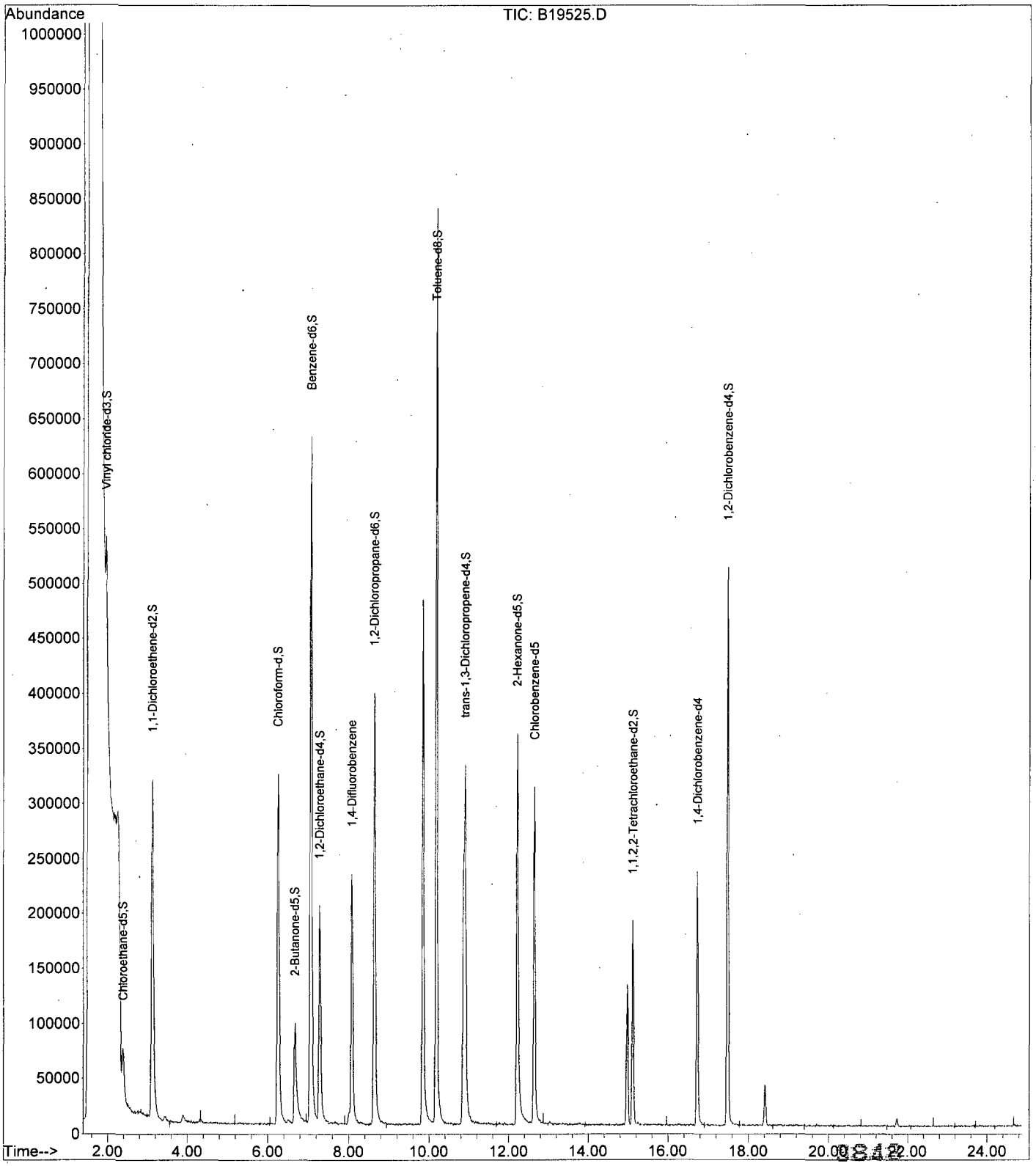
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0847

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\DATA\B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 14:45:11 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 07:46:36 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.564	3	26	77	BV	17050566	1428423536	100.00%	82.800%
2	1.957	77	81	110	VV	530683	50513345	3.54%	2.928%
3	2.179	110	112	118	VV	277816	9292955	0.65%	0.539%
4	2.250	118	122	136	VV	282291	15657053	1.10%	0.908%
5	2.386	136	141	156	VV 2	66971	3486310	0.24%	0.202%
6	2.508	156	158	164	VV 7	17071	477095	0.03%	0.028%
7	2.565	164	166	174	VV 8	14089	535793	0.04%	0.031%
8	2.636	174	176	179	VV 3	10796	213914	0.01%	0.012%
9	2.687	179	183	190	VV 8	11338	420925	0.03%	0.024%
10	2.758	190	193	194	VV 3	11171	197783	0.01%	0.011%
11	2.779	194	196	197	VV 2	11436	138615	0.01%	0.008%
12	2.837	197	204	208	VV 8	12488	468837	0.03%	0.027%
13	2.880	208	210	219	VV 7	9921	426014	0.03%	0.025%
14	2.958	219	221	224	VV 4	8312	156277	0.01%	0.009%
15	2.994	224	226	227	VV	9093	107388	0.01%	0.006%
16	3.023	227	230	234	VV 2	9037	227448	0.02%	0.013%
17	3.130	234	245	273	VV	313732	12345412	0.86%	0.716%
18	3.337	273	274	283	VV 4	6182	234352	0.02%	0.014%
19	3.430	283	287	297	VV 5	8248	383781	0.03%	0.022%
20	3.509	297	298	301	VV	5855	84037	0.01%	0.005%
21	3.537	301	302	306	VV 2	4807	92085	0.01%	0.005%
22	3.595	306	310	313	PV 2	4961	119382	0.01%	0.007%
23	3.630	313	315	317	VV 2	4623	63908	0.00%	0.004%
24	3.659	317	319	322	VV 3	4050	78784	0.01%	0.005%
25	3.695	322	324	328	VV 2	4092	98361	0.01%	0.006%
26	3.745	328	331	334	VV	3948	88742	0.01%	0.005%
27	3.781	334	336	342	VV 2	3747	117295	0.01%	0.007%
28	3.888	342	351	369	VV 6	9866	689778	0.05%	0.040%
29	4.031	369	371	373	VV	5135	62382	0.00%	0.004%
30	4.059	373	375	378	VV 2	4702	78931	0.01%	0.005%
31	4.102	378	381	385	VV	5270	119734	0.01%	0.007%
32	4.159	385	389	394	VV 2	4392	132362	0.01%	0.008%
33	4.217	394	397	399	VV 2	3999	66947	0.00%	0.004%
34	4.310	399	410	412	VV 5	6256	224772	0.02%	0.013%
35	4.338	412	414	418	VV	11914	170623	0.01%	0.010%
36	4.374	418	419	426	VV 2	4363	114393	0.01%	0.007%
37	4.431	426	427	441	VV 2	3339	199838	0.01%	0.012%
38	4.560	441	445	446	VV	2974	56167	0.00%	0.003%
39	4.588	446	449	451	VV	3917	72299	0.01%	0.004%
40	4.624	451	454	457	VV 2	3258	70660	0.00%	0.004%
41	4.710	457	466	470	VV 2	3698	169860	0.01%	0.010%
42	4.753	470	472	484	VV 2	3394	163829	0.01%	0.009%
43	4.853	484	486	488	VV	3598	49621	0.00%	0.003%
44	4.874	488	489	491	VV 2	3133	41539	0.00%	0.002%

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

45	4.946	491	499	501	VV	3	3807	120951	0.01%	0.007%
46	4.989	501	505	508	VV	2	3124	80484	0.01%	0.005%
47	5.032	508	511	515	VV	2	3393	82753	0.01%	0.005%
48	5.075	515	517	519	VV	2	2441	30905	0.00%	0.002%
49	5.110	519	522	526	VV	2	2821	77818	0.01%	0.005%
50	5.160	526	529	532	VV	2	3297	65530	0.00%	0.004%
51	5.196	532	534	538	VV		9570	101473	0.01%	0.006%
52	5.261	538	543	545	VV		3198	72946	0.01%	0.004%
53	5.296	545	548	550	VV		3686	62111	0.00%	0.004%
54	5.318	550	551	560	VV	3	3548	128033	0.01%	0.007%
55	5.389	560	561	563	VV		3310	42777	0.00%	0.002%
56	5.447	563	569	575	VV	3	3670	134359	0.01%	0.008%
57	5.504	575	577	580	VV		2941	45371	0.00%	0.003%
58	5.539	580	582	584	VV		3156	46257	0.00%	0.003%
59	5.568	584	586	593	VV	2	2722	97787	0.01%	0.006%
60	5.625	593	594	596	VV		2607	35206	0.00%	0.002%
61	5.661	596	599	600	VV	2	2263	37069	0.00%	0.002%
62	5.697	600	604	605	VV	2	2850	52550	0.00%	0.003%
63	5.718	605	607	609	VV	2	3224	43740	0.00%	0.003%
64	5.740	609	610	612	VV	2	2839	33696	0.00%	0.002%
65	5.768	612	614	616	VV	2	2740	46994	0.00%	0.003%
66	5.797	616	618	619	VV		3150	30970	0.00%	0.002%
67	5.818	619	621	626	VV	3	3301	73448	0.01%	0.004%
68	5.876	626	629	631	VV	2	2624	45783	0.00%	0.003%
69	5.926	631	636	642	VV	2	3233	112968	0.01%	0.007%
70	6.004	642	647	657	VV		3274	177518	0.01%	0.010%
71	6.090	657	659	664	VV	2	3239	83011	0.01%	0.005%
72	6.133	664	665	668	VV		2399	46103	0.00%	0.003%
73	6.176	668	671	672	VV	2	2555	39528	0.00%	0.002%
74	6.262	672	683	705	VV	2	320456	11801723	0.83%	0.684%
75	6.426	705	706	710	VV	2	5984	116641	0.01%	0.007%
76	6.505	710	717	721	VV	4	6438	231431	0.02%	0.013%
77	6.540	721	722	724	VV	2	5918	81098	0.01%	0.005%
78	6.569	724	726	730	VV	3	4710	98263	0.01%	0.006%
79	6.676	730	741	763	VV	2	92852	4366858	0.31%	0.253%
80	6.841	763	764	772	VV	3	7850	267426	0.02%	0.016%
81	6.905	772	773	779	VV	4	6010	158039	0.01%	0.009%
82	6.955	779	780	784	VV		10161	144022	0.01%	0.008%
83	7.070	784	796	818	VV		624329	20841957	1.46%	1.208%
84	7.291	818	827	848	VV		199452	7233277	0.51%	0.419%
85	7.456	848	850	859	VV	6	6446	228471	0.02%	0.013%
86	7.534	859	861	862	VV		3592	45824	0.00%	0.003%
87	7.570	862	866	878	VV	5	4532	264144	0.02%	0.015%
88	7.670	878	880	886	VV	2	5035	130030	0.01%	0.008%
89	7.720	886	887	891	VV		3987	76216	0.01%	0.004%
90	7.806	891	899	903	VV	3	3567	154022	0.01%	0.009%
91	7.849	903	905	907	VV	2	3751	60582	0.00%	0.003%

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

92	7.906	907	913	917	VV		8317	158136	0.01%	0.009%
93	7.949	917	919	920	VV		3161	39406	0.00%	0.002%
94	8.013	920	928	929	VV	6	13045	316802	0.02%	0.018%
95	8.085	929	938	963	VV		229926	7775774	0.54%	0.451%
96	8.292	963	967	970	VV	2	4898	121070	0.01%	0.007%
97	8.328	970	972	974	VV	2	4415	59373	0.00%	0.003%
98	8.350	974	975	982	VV	2	4387	125098	0.01%	0.007%
99	8.450	982	989	991	VV		3034	88292	0.01%	0.005%
100	8.478	991	993	998	VV	2	2742	77416	0.01%	0.004%
101	8.643	998	1016	1038	VV		393559	13018028	0.91%	0.755%
102	8.814	1038	1040	1050	VV	4	5762	232178	0.02%	0.013%
103	8.922	1050	1055	1057	VV		4606	107009	0.01%	0.006%
104	8.950	1057	1059	1063	VV		4317	65127	0.00%	0.004%
105	9.000	1063	1066	1070	VV	3	3331	91197	0.01%	0.005%
106	9.043	1070	1072	1086	VV	4	3251	184516	0.01%	0.011%
107	9.157	1086	1088	1091	VV	2	2472	49716	0.00%	0.003%
108	9.208	1091	1095	1098	VV	2	3235	80551	0.01%	0.005%
109	9.250	1098	1101	1103	VV		3385	50220	0.00%	0.003%
110	9.272	1103	1104	1108	VV	2	3331	56853	0.00%	0.003%
111	9.308	1108	1109	1117	VV	2	2880	96409	0.01%	0.006%
112	9.379	1117	1119	1121	VV	2	3356	58265	0.00%	0.003%
113	9.415	1121	1124	1132	VV	4	3838	128865	0.01%	0.007%
114	9.501	1132	1136	1139	VV	2	3518	87057	0.01%	0.005%
115	9.551	1139	1143	1148	VV	2	3279	99944	0.01%	0.006%
116	9.594	1148	1149	1154	VV	2	3280	62885	0.00%	0.004%
117	9.672	1154	1160	1162	VV	2	3166	86047	0.01%	0.005%
118	9.708	1162	1165	1166	VV		2909	50048	0.00%	0.003%
119	9.729	1166	1168	1174	VV	2	3993	97449	0.01%	0.006%
120	9.851	1174	1185	1206	VV		479947	14203638	0.99%	0.823%
121	10.008	1206	1207	1215	VV	5	7460	243444	0.02%	0.014%
122	10.087	1215	1218	1221	VV	4	5482	137414	0.01%	0.008%
123	10.187	1221	1232	1258	VV		825041	22842385	1.60%	1.324%
124	10.387	1258	1260	1262	VV		5163	75665	0.01%	0.004%
125	10.416	1262	1264	1270	VV	4	5263	139089	0.01%	0.008%
126	10.473	1270	1272	1277	VV	2	3741	100687	0.01%	0.006%
127	10.559	1277	1284	1287	VV	4	4343	158194	0.01%	0.009%
128	10.588	1287	1288	1293	VV	2	3454	76054	0.01%	0.004%
129	10.638	1293	1295	1299	VV	2	3746	77111	0.01%	0.004%
130	10.716	1299	1306	1312	VV	2	3324	157645	0.01%	0.009%
131	10.902	1312	1332	1361	VV	2	327312	16128635	1.13%	0.935%
132	11.117	1361	1362	1367	VV	2	5924	121771	0.01%	0.007%
133	11.167	1367	1369	1371	VV		5505	81053	0.01%	0.005%
134	11.188	1371	1372	1375	VV	2	5330	78605	0.01%	0.005%
135	11.231	1375	1378	1387	VV	6	5185	201018	0.01%	0.012%
136	11.310	1387	1389	1392	VV	2	3820	70940	0.00%	0.004%
137	11.360	1392	1396	1397	VV	2	3759	78795	0.01%	0.005%
138	11.388	1397	1400	1402	VV	2	4359	75381	0.01%	0.004%
139	11.417	1402	1404	1412	VV	2	3556	138301	0.01%	0.008%

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

140	11.496	1412	1415	1417	VV 3	4605	83585	0.01%	0.005%
141	11.524	1417	1419	1423	VV 2	3684	70566	0.00%	0.004%
142	11.567	1423	1425	1435	VV 2	4028	156856	0.01%	0.009%
143	11.667	1435	1439	1442	VV 2	3639	87437	0.01%	0.005%
144	11.703	1442	1444	1448	VV	4770	69264	0.00%	0.004%
145	11.760	1448	1452	1458	VV 2	4448	149653	0.01%	0.009%
146	11.817	1458	1460	1464	VV 2	3225	72076	0.01%	0.004%
147	11.860	1464	1466	1467	VV 2	3580	42470	0.00%	0.002%
148	11.903	1467	1472	1477	VV 3	4590	140383	0.01%	0.008%
149	11.953	1477	1479	1481	VV	3232	48868	0.00%	0.003%
150	11.982	1481	1483	1485	VV	2829	46340	0.00%	0.003%
151	12.025	1485	1489	1494	VV	3156	98213	0.01%	0.006%
152	12.082	1494	1497	1499	VV 3	3328	66507	0.00%	0.004%
153	12.111	1499	1501	1502	VV 2	3516	38848	0.00%	0.002%
154	12.218	1502	1516	1545	VV 2	360534	11759368	0.82%	0.682%
155	12.432	1545	1546	1556	VV 7	7505	285731	0.02%	0.017%
156	12.647	1556	1576	1592	VV	308367	9225617	0.65%	0.535%
157	12.768	1592	1593	1600	VV 6	7249	202654	0.01%	0.012%
158	12.868	1600	1607	1614	VV	10550	303791	0.02%	0.018%
159	12.933	1614	1616	1620	VV	4772	98299	0.01%	0.006%
160	12.976	1620	1622	1624	VV 2	4047	59464	0.00%	0.003%
161	13.040	1624	1631	1638	VV 5	5882	241176	0.02%	0.014%
162	13.097	1638	1639	1644	VV	4028	75749	0.01%	0.004%
163	13.147	1644	1646	1648	VV 2	4067	61694	0.00%	0.004%
164	13.169	1648	1649	1657	VV 4	3807	117734	0.01%	0.007%
165	13.240	1657	1659	1662	VV 2	3816	61511	0.00%	0.004%
166	13.276	1662	1664	1666	VV 2	4055	54724	0.00%	0.003%
167	13.305	1666	1668	1672	VV 3	3618	84132	0.01%	0.005%
168	13.362	1672	1676	1678	VV	4277	87854	0.01%	0.005%
169	13.398	1678	1681	1685	VV 2	3563	89008	0.01%	0.005%
170	13.448	1685	1688	1694	VV 2	3965	120839	0.01%	0.007%
171	13.498	1694	1695	1697	VV 2	2487	27279	0.00%	0.002%
172	13.541	1697	1701	1704	VV 2	3859	94440	0.01%	0.005%
173	13.583	1704	1707	1710	VV 2	3347	68977	0.00%	0.004%
174	13.626	1710	1713	1716	VV 3	3305	66260	0.00%	0.004%
175	13.669	1716	1719	1722	VV 3	3701	81814	0.01%	0.005%
176	13.705	1722	1724	1728	VV 2	3585	77973	0.01%	0.005%
177	13.748	1728	1730	1737	VV 2	4288	139880	0.01%	0.008%
178	13.805	1737	1738	1743	VV 2	4277	73538	0.01%	0.004%
179	13.848	1743	1744	1746	VV 2	3080	43385	0.00%	0.003%
180	13.877	1746	1748	1757	VV 2	3380	136583	0.01%	0.008%
181	13.991	1757	1764	1766	VV 3	3217	103857	0.01%	0.006%
182	14.020	1766	1768	1772	VV	3590	65423	0.00%	0.004%
183	14.113	1772	1781	1783	VV 2	3351	122437	0.01%	0.007%
184	14.141	1783	1785	1790	VV 2	3248	79862	0.01%	0.005%
185	14.191	1790	1792	1793	VV	2733	34729	0.00%	0.002%
186	14.213	1793	1795	1799	VV	3376	66301	0.00%	0.00[illegible]52

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

187	14.256	1799	1801	1803	VV		3046	42649	0.00%	0.002%
188	14.284	1803	1805	1812	VV	3	3260	105775	0.01%	0.006%
189	14.341	1812	1813	1816	VV	2	3870	56338	0.00%	0.003%
190	14.370	1816	1817	1822	VV		3265	69258	0.00%	0.004%
191	14.427	1822	1825	1830	VV		3074	85648	0.01%	0.005%
192	14.477	1830	1832	1836	VV	3	3102	60646	0.00%	0.004%
193	14.549	1836	1842	1846	VV		3713	116526	0.01%	0.007%
194	14.599	1846	1849	1851	VV		2817	52930	0.00%	0.003%
195	14.635	1851	1854	1859	VV	2	2984	89606	0.01%	0.005%
196	14.685	1859	1861	1862	VV	2	2631	29291	0.00%	0.002%
197	14.713	1862	1865	1870	VV	2	3515	98165	0.01%	0.006%
198	14.863	1870	1886	1888	VV	3	3562	190437	0.01%	0.011%
199	14.899	1888	1891	1893	VV	2	4039	65006	0.00%	0.004%
200	14.985	1893	1903	1913	VV		129794	3775494	0.26%	0.219%
201	15.121	1913	1922	1934	VV		189504	5264646	0.37%	0.305%
202	15.257	1934	1941	1944	VV	5	5365	172112	0.01%	0.010%
203	15.285	1944	1945	1948	VV		3177	45056	0.00%	0.003%
204	15.321	1948	1950	1953	VV	2	3833	70005	0.00%	0.004%
205	15.392	1953	1960	1962	VV	3	3018	91596	0.01%	0.005%
206	15.435	1962	1966	1968	VV		3576	74130	0.01%	0.004%
207	15.457	1968	1969	1972	VV	2	3039	56892	0.00%	0.003%
208	15.493	1972	1974	1978	VV	2	3319	62007	0.00%	0.004%
209	15.528	1978	1979	1981	VV		3173	37348	0.00%	0.002%
210	15.564	1981	1984	1986	VV	2	3181	55372	0.00%	0.003%
211	15.593	1986	1988	1990	VV	2	3281	49277	0.00%	0.003%
212	15.621	1990	1992	1993	VV		2852	37591	0.00%	0.002%
213	15.643	1993	1995	2003	VV	2	3216	132912	0.01%	0.008%
214	15.764	2003	2012	2017	VV	2	3968	159851	0.01%	0.009%
215	15.807	2017	2018	2023	VV		3316	70708	0.00%	0.004%
216	15.857	2023	2025	2026	VV		3115	36338	0.00%	0.002%
217	15.914	2026	2033	2037	VV	2	3120	117160	0.01%	0.007%
218	15.964	2037	2040	2047	VV		8597	145345	0.01%	0.008%
219	16.036	2047	2050	2053	VV	2	3111	62144	0.00%	0.004%
220	16.072	2053	2055	2057	VV		3108	39045	0.00%	0.002%
221	16.093	2057	2058	2060	VV		2900	34480	0.00%	0.002%
222	16.115	2060	2061	2066	VV		3149	71829	0.01%	0.004%
223	16.186	2066	2071	2073	VV	2	3195	75913	0.01%	0.004%
224	16.208	2073	2074	2078	VV		2846	51461	0.00%	0.003%
225	16.272	2078	2083	2091	VV	2	3757	173688	0.01%	0.010%
226	16.372	2091	2097	2100	VV	2	3060	87823	0.01%	0.005%
227	16.415	2100	2103	2110	VV		3261	111086	0.01%	0.006%
228	16.479	2110	2112	2117	VV	2	3357	79783	0.01%	0.005%
229	16.529	2117	2119	2120	VV		3020	33951	0.00%	0.002%
230	16.572	2120	2125	2128	VV	3	3832	95824	0.01%	0.006%
231	16.601	2128	2129	2132	VV		2959	42956	0.00%	0.002%
232	16.637	2132	2134	2138	VV	2	3520	72765	0.01%	0.004%
233	16.730	2138	2147	2171	VV		228772	6398982	0.45%	0.371%
234	16.915	2171	2173	2176	VV		4509	61724	0.00%	0.004%

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

235	16.951	2176	2178	2181	VV		3131	64175	0.00%	0.004%
236	16.987	2181	2183	2189	VV	2	3869	101917	0.01%	0.006%
237	17.058	2189	2193	2195	VV	3	3339	66925	0.00%	0.004%
238	17.087	2195	2197	2200	VV	2	3277	71185	0.00%	0.004%
239	17.123	2200	2202	2206	VV		3633	79591	0.01%	0.005%
240	17.166	2206	2208	2211	VV		3198	57787	0.00%	0.003%
241	17.201	2211	2213	2215	VV		3352	54666	0.00%	0.003%
242	17.259	2215	2221	2224	VV	2	3120	97557	0.01%	0.006%
243	17.294	2224	2226	2228	VV	2	2900	47499	0.00%	0.003%
244	17.345	2228	2233	2235	VV		3138	81584	0.01%	0.005%
245	17.387	2235	2239	2244	VV	2	3617	100696	0.01%	0.006%
246	17.488	2244	2253	2270	VV		508179	13482246	0.94%	0.782%
247	17.623	2270	2272	2281	VV	5	4676	168737	0.01%	0.010%
248	17.702	2281	2283	2287	VV	2	4043	106112	0.01%	0.006%
249	17.745	2287	2289	2298	VV		3470	134969	0.01%	0.008%
250	17.845	2298	2303	2307	VV	2	3485	120861	0.01%	0.007%
251	17.902	2307	2311	2313	VV	2	3786	76381	0.01%	0.004%
252	17.931	2313	2315	2320	VV		2777	77827	0.01%	0.005%
253	17.988	2320	2323	2326	VV	3	3176	66435	0.00%	0.004%
254	18.024	2326	2328	2333	VV	2	3395	84275	0.01%	0.005%
255	18.095	2333	2338	2340	VV	2	3448	92792	0.01%	0.005%
256	18.124	2340	2342	2354	VV	3	3261	165031	0.01%	0.010%
257	18.217	2354	2355	2357	VV		3196	42149	0.00%	0.002%
258	18.238	2357	2358	2372	VV	2	3546	181542	0.01%	0.011%
259	18.353	2372	2374	2375	VV		4434	45756	0.00%	0.003%
260	18.417	2375	2383	2395	VV		38808	1264051	0.09%	0.073%
261	18.539	2395	2400	2402	VV	3	3556	91295	0.01%	0.005%
262	18.560	2402	2403	2405	VV	2	2923	33043	0.00%	0.002%
263	18.589	2405	2407	2410	VV		3306	51260	0.00%	0.003%
264	18.624	2410	2412	2425	PV	2	3638	178379	0.01%	0.010%
265	18.739	2425	2428	2431	VV	2	3404	70755	0.00%	0.004%
266	18.775	2431	2433	2438	VV	2	3455	96647	0.01%	0.006%
267	18.832	2438	2441	2446	VV	2	3335	89790	0.01%	0.005%
268	18.889	2446	2449	2451	VV		3124	56134	0.00%	0.003%
269	18.910	2451	2452	2455	VV		3466	55168	0.00%	0.003%
270	18.946	2455	2457	2458	VV	2	3040	38724	0.00%	0.002%
271	18.982	2458	2462	2465	VV	2	3080	74921	0.01%	0.004%
272	19.018	2465	2467	2471	VV	3	3386	70581	0.00%	0.004%
273	19.068	2471	2474	2480	VV		3318	105359	0.01%	0.006%
274	19.132	2480	2483	2485	VV		3516	56447	0.00%	0.003%
275	19.161	2485	2487	2489	VV	2	3104	44755	0.00%	0.003%
276	19.196	2489	2492	2499	VV	2	3767	126186	0.01%	0.007%
277	19.261	2499	2501	2502	VV		2978	35814	0.00%	0.002%
278	19.282	2502	2504	2513	VV	2	3213	120916	0.01%	0.007%
279	19.361	2513	2515	2517	VV	2	3024	53148	0.00%	0.003%
280	19.389	2517	2519	2524	VV	2	3440	72491	0.01%	0.004%
281	19.525	2524	2538	2540	VV	3	3440	175697	0.01%	0.010%

0854

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

282	19.554	2540	2542	2546	VV	3532	70684	0.00%	0.004%
283	19.668	2546	2558	2559	VV 2	3051	149185	0.01%	0.009%
284	19.704	2559	2563	2567	VV 2	4679	106720	0.01%	0.006%
285	19.740	2567	2568	2570	VV	2888	33276	0.00%	0.002%
286	19.761	2570	2571	2573	VV 2	3511	46784	0.00%	0.003%
287	19.826	2573	2580	2592	VV 2	3249	226891	0.02%	0.013%
288	19.926	2592	2594	2597	VV 2	3171	60981	0.00%	0.004%
289	19.990	2597	2603	2605	VV 2	3227	92497	0.01%	0.005%
290	20.019	2605	2607	2609	VV 2	3036	42061	0.00%	0.002%
291	20.054	2609	2612	2616	VV 2	3759	89806	0.01%	0.005%
292	20.090	2616	2617	2622	VV 2	3409	72331	0.01%	0.004%
293	20.140	2622	2624	2625	VV 2	3358	31890	0.00%	0.002%
294	20.162	2625	2627	2631	VV	3196	66713	0.00%	0.004%
295	20.197	2631	2632	2634	VV	2756	30047	0.00%	0.002%
296	20.262	2634	2641	2645	VV 2	3472	115554	0.01%	0.007%
297	20.305	2645	2647	2656	VV	2921	122973	0.01%	0.007%
298	20.383	2656	2658	2661	VV	2871	48508	0.00%	0.003%
299	20.419	2661	2663	2665	VV 2	3106	49849	0.00%	0.003%
300	20.448	2665	2667	2669	VV 2	3143	50347	0.00%	0.003%
301	20.491	2669	2673	2678	VV 3	3354	119378	0.01%	0.007%
302	20.541	2678	2680	2682	VV 2	3156	45215	0.00%	0.003%
303	20.584	2682	2686	2688	VV 2	2787	63504	0.00%	0.004%
304	20.612	2688	2690	2691	VV 2	2662	31423	0.00%	0.002%
305	20.648	2691	2695	2697	VV 2	3272	65724	0.00%	0.004%
306	20.705	2697	2703	2707	VV 2	3417	118540	0.01%	0.007%
307	20.755	2707	2710	2718	VV 2	3477	132630	0.01%	0.008%
308	20.827	2718	2720	2721	VV	7512	65183	0.00%	0.004%
309	20.848	2721	2723	2725	VV	3026	41726	0.00%	0.002%
310	20.898	2725	2730	2735	VV 3	2743	106030	0.01%	0.006%
311	20.948	2735	2737	2743	VV 2	3055	82084	0.01%	0.005%
312	21.013	2743	2746	2748	VV	3059	57586	0.00%	0.003%
313	21.048	2748	2751	2753	VV 2	2917	57567	0.00%	0.003%
314	21.084	2753	2756	2759	VV 2	3342	74006	0.01%	0.004%
315	21.120	2759	2761	2765	VV 2	2847	66538	0.00%	0.004%
316	21.163	2765	2767	2769	VV	3500	47330	0.00%	0.003%
317	21.220	2769	2775	2777	VV 2	2971	91769	0.01%	0.005%
318	21.256	2777	2780	2787	VV 3	3156	105111	0.01%	0.006%
319	21.327	2787	2790	2798	VV 2	3169	129430	0.01%	0.008%
320	21.399	2798	2800	2810	VV 2	3405	140759	0.01%	0.008%
321	21.484	2810	2812	2816	PV 2	3344	67204	0.00%	0.004%
322	21.527	2816	2818	2819	VV 2	2891	34373	0.00%	0.002%
323	21.549	2819	2821	2823	VV	2783	43795	0.00%	0.003%
324	21.585	2823	2826	2828	VV	3326	55823	0.00%	0.003%
325	21.613	2828	2830	2832	VV 2	3143	41925	0.00%	0.002%
326	21.642	2832	2834	2838	VV 2	3327	70009	0.00%	0.004%
327	21.728	2838	2846	2852	VV 5	9529	334727	0.02%	0.019%
328	21.778	2852	2853	2855	VV	3229	41414	0.00%	0.002%
329	21.806	2855	2857	2862	VV	3143	73930	0.01%	0.004%

0255

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

330	21.856	2862	2864	2866	VV		3136	41146	0.00%	0.002%
331	21.892	2866	2869	2877	VV	2	3016	130015	0.01%	0.008%
332	21.985	2877	2882	2886	VV	2	3023	90482	0.01%	0.005%
333	22.057	2886	2892	2895	VV	2	3524	112342	0.01%	0.007%
334	22.107	2895	2899	2901	VV	2	3502	61424	0.00%	0.004%
335	22.135	2901	2903	2908	VV	2	2699	68410	0.00%	0.004%
336	22.192	2908	2911	2913	VV		3333	65084	0.00%	0.004%
337	22.214	2913	2914	2916	VV		2928	31057	0.00%	0.002%
338	22.242	2916	2918	2931	VV	2	3388	170316	0.01%	0.010%
339	22.364	2931	2935	2940	VV	2	2839	97997	0.01%	0.006%
340	22.428	2940	2944	2948	VV	2	3630	100390	0.01%	0.006%
341	22.486	2948	2952	2953	VV		2976	53025	0.00%	0.003%
342	22.514	2953	2956	2958	VV		3174	54630	0.00%	0.003%
343	22.550	2958	2961	2964	VV	2	2860	64467	0.00%	0.004%
344	22.614	2964	2970	2972	VV	2	2657	69487	0.00%	0.004%
345	22.643	2972	2974	2981	VV		8943	135089	0.01%	0.008%
346	22.707	2981	2983	2986	VV		2934	62165	0.00%	0.004%
347	22.743	2986	2988	2992	VV		2979	65160	0.00%	0.004%
348	22.786	2992	2994	2999	VV	2	3386	71633	0.01%	0.004%
349	22.843	2999	3002	3004	VV	2	3359	62399	0.00%	0.004%
350	22.900	3004	3010	3012	VV	2	3154	90226	0.01%	0.005%
351	22.929	3012	3014	3017	VV	2	3356	63107	0.00%	0.004%
352	22.965	3017	3019	3027	VV	2	2996	100070	0.01%	0.006%
353	23.029	3027	3028	3030	VV		3996	37310	0.00%	0.002%
354	23.065	3030	3033	3034	VV		3001	46567	0.00%	0.003%
355	23.086	3034	3036	3039	VV	2	3176	63496	0.00%	0.004%
356	23.122	3039	3041	3046	VV	2	3493	78582	0.01%	0.005%
357	23.165	3046	3047	3049	VV		2675	29284	0.00%	0.002%
358	23.193	3049	3051	3058	VV		5186	105587	0.01%	0.006%
359	23.294	3058	3065	3078	VV		3107	217534	0.02%	0.013%
360	23.436	3078	3085	3107	VV	3	3307	324059	0.02%	0.019%
361	23.715	3107	3124	3127	VV	2	4592	238651	0.02%	0.014%
362	23.751	3127	3129	3131	VV	2	2834	42615	0.00%	0.002%
363	23.830	3131	3140	3153	VV	2	3481	247066	0.02%	0.014%
364	23.951	3153	3157	3159	VV	3	2976	70814	0.00%	0.004%
365	23.980	3159	3161	3174	VV	3	2845	164544	0.01%	0.010%
366	24.094	3174	3177	3179	VV	2	2953	49692	0.00%	0.003%
367	24.130	3179	3182	3186	VV	3	2796	77595	0.01%	0.004%
368	24.180	3186	3189	3191	VV	2	3218	58764	0.00%	0.003%
369	24.237	3191	3197	3199	PV	2	2396	72460	0.01%	0.004%
370	24.273	3199	3202	3213	VV	3	2672	138539	0.01%	0.008%
371	24.373	3213	3216	3217	VV		2383	34304	0.00%	0.002%
372	24.402	3217	3220	3224	VV	2	2235	48009	0.00%	0.003%
373	24.459	3224	3228	3231	VV		1905	50241	0.00%	0.003%
374	24.488	3231	3232	3236	VV		1841	23633	0.00%	0.001%
375	24.559	3236	3242	3253	VV	3	1681	85692	0.01%	0.005%
376	24.666	3253	3257	3266	VV		7163	104285	0.01%	0.006%

0856

LSC Area Percent Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

377	24.752	3266	3269	3276	VV	2	1658	20237	0.00%	0.001%

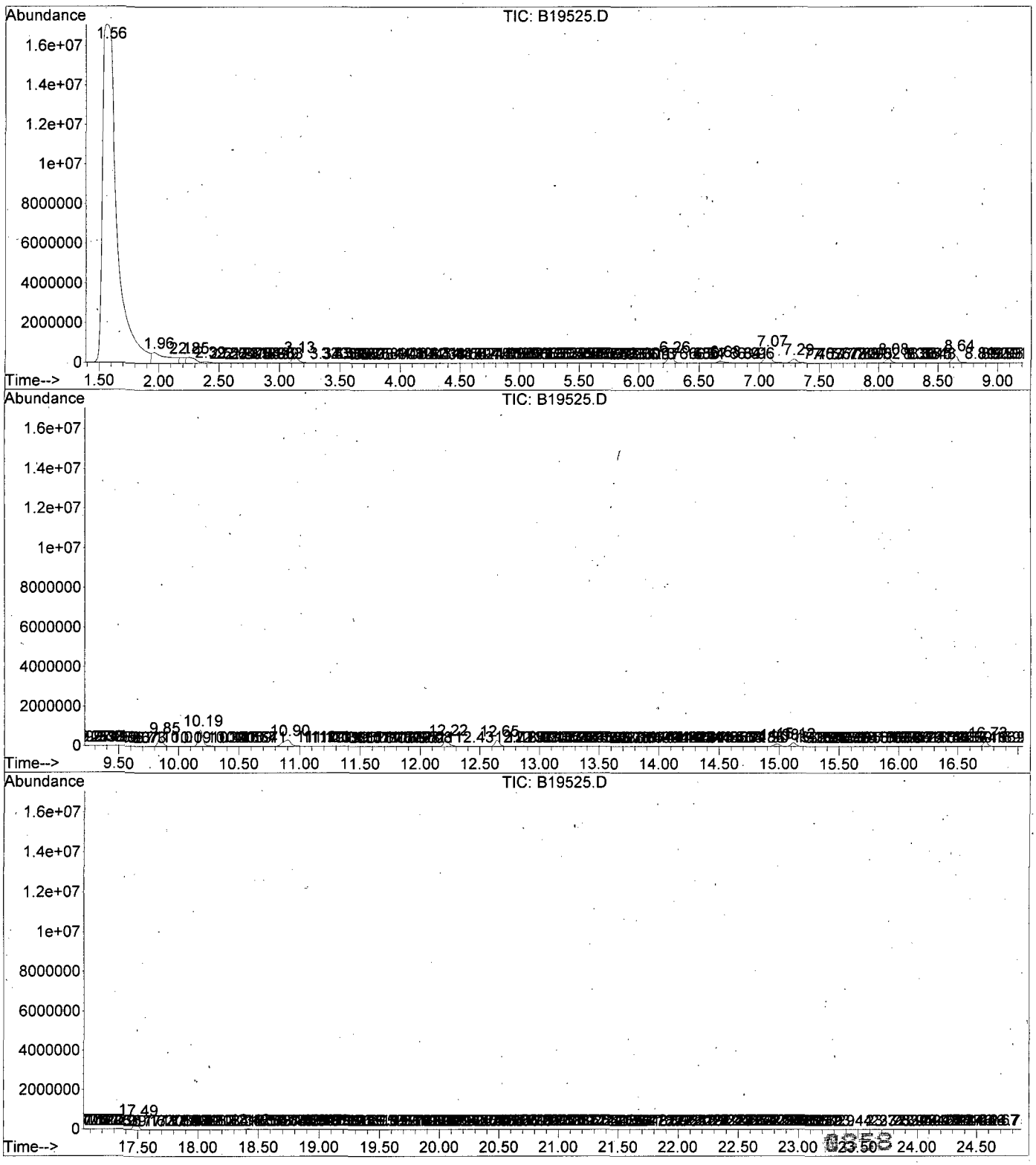
Sum of corrected areas: 1725155361

0857

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

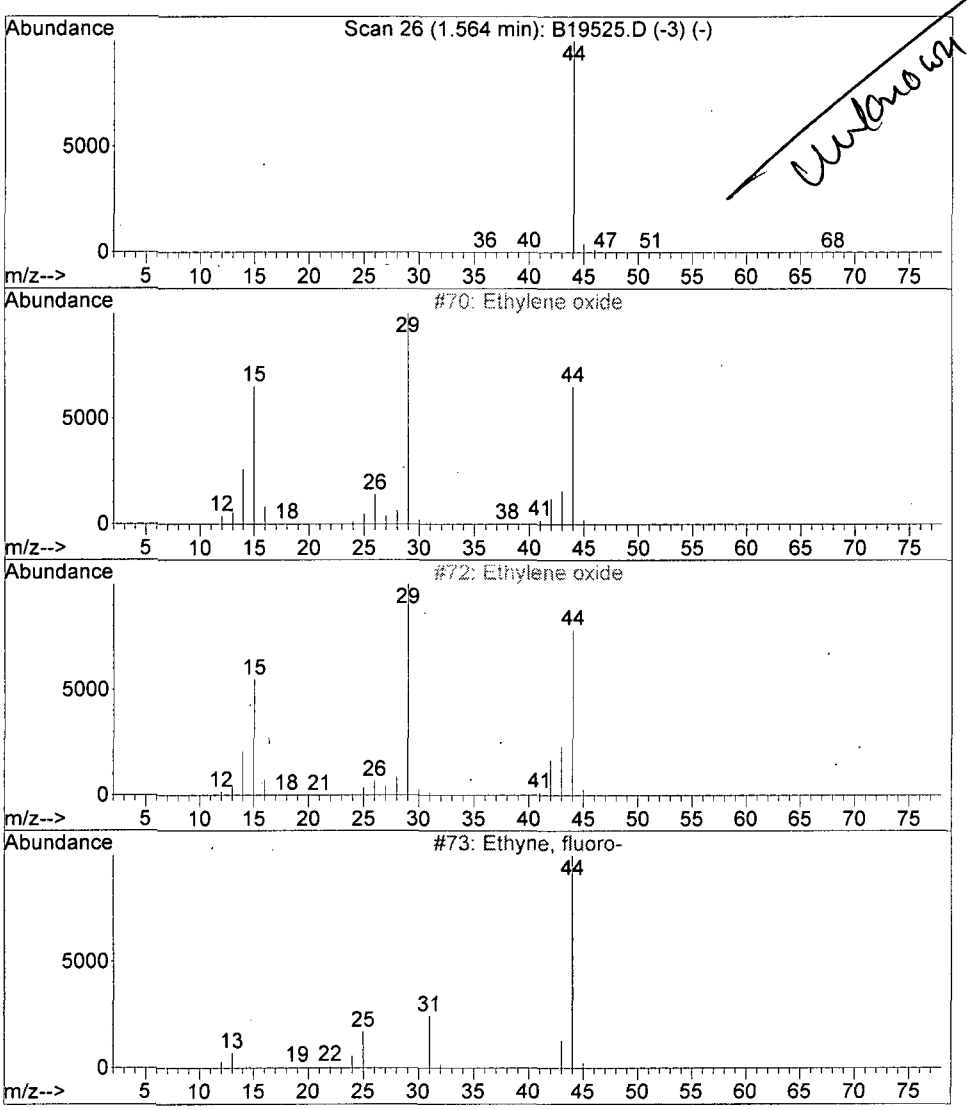
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

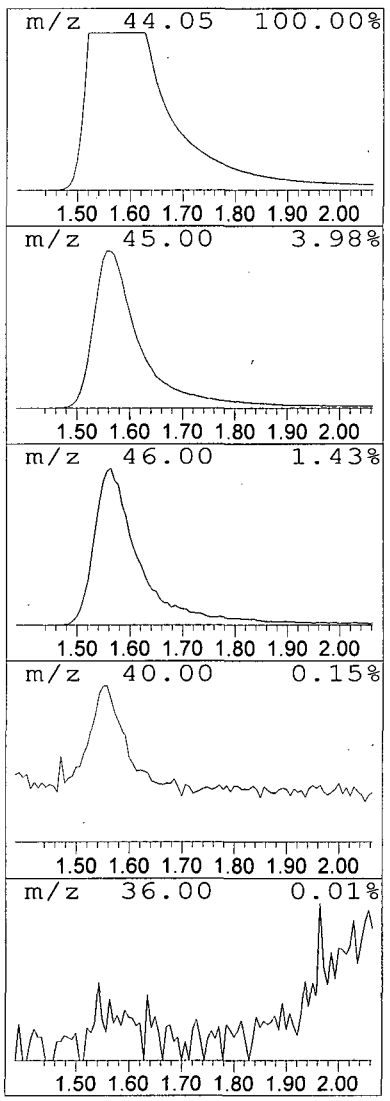
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	918.51 ug/L	1428420000	1,4-Difluorobenzene	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3
5	Acetaldehyde	44	C2H4O	000075-07-0	3





0859

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

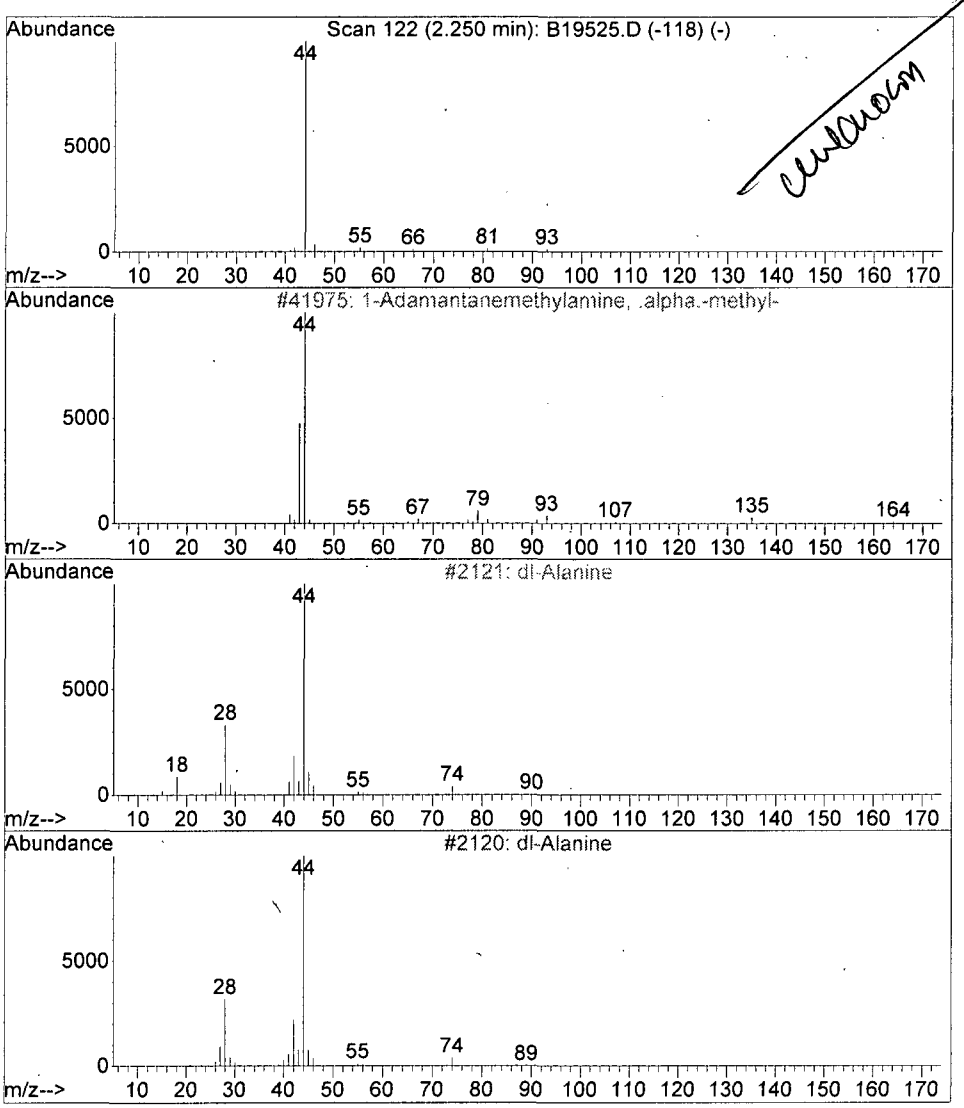
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

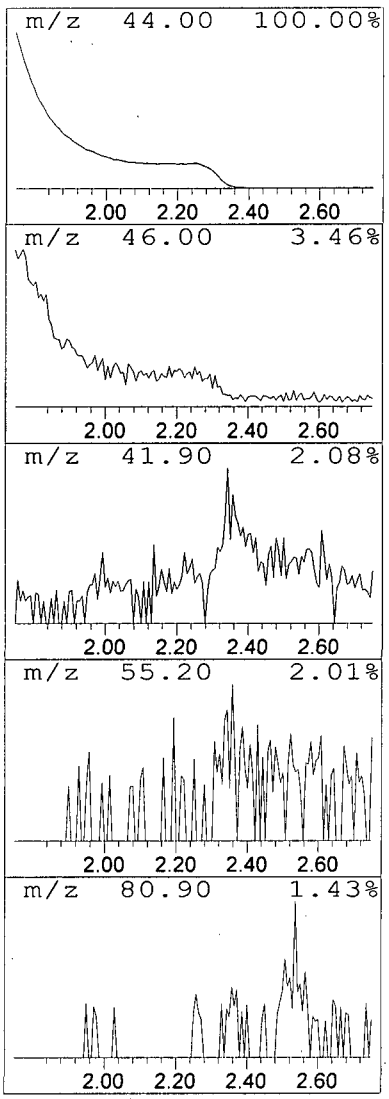
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 1-Adamantanemethylamine, .a... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.25	10.07 ug/L	15657100	1,4-Difluorobenzene	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Adamantanemethylamine, .alpha....	179	C12H21N	013392-28-4	2
2	dl-Alanine	89	C3H7NO2	000302-72-7	2
3	dl-Alanine	89	C3H7NO2	000302-72-7	2
4	Carbon dioxide	44	CO2	000124-38-9	2
5	Ethylene oxide	44	C2H4O	000075-21-8	2





0860

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

11/28/08

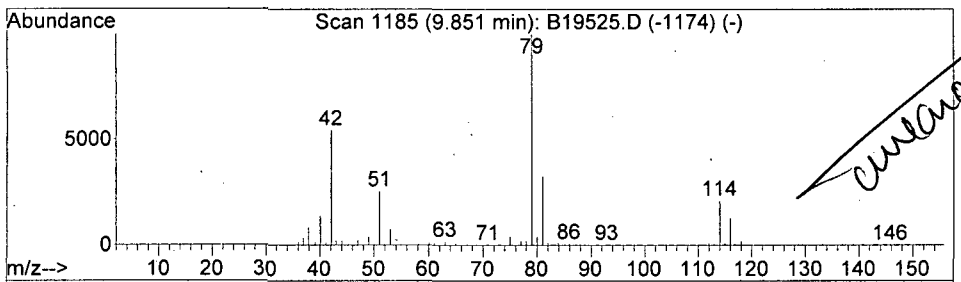
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

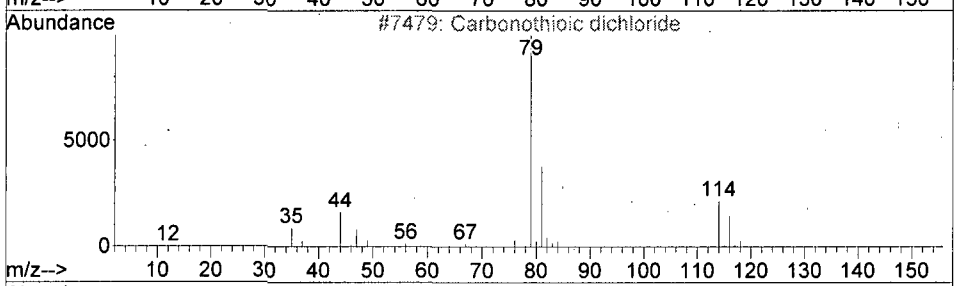
****

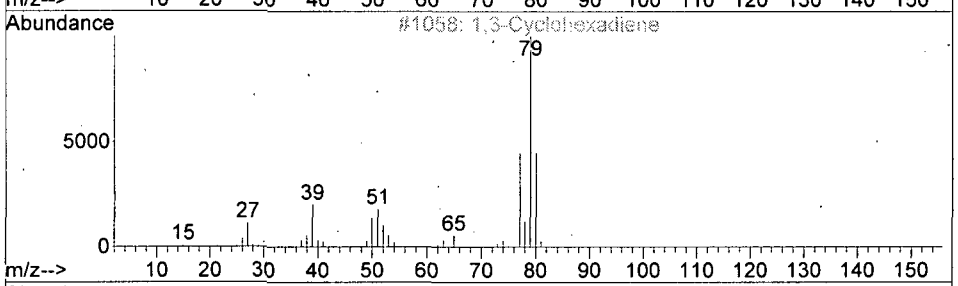
Peak Number 3 Carbonothioic dichloride Concentration Rank 3

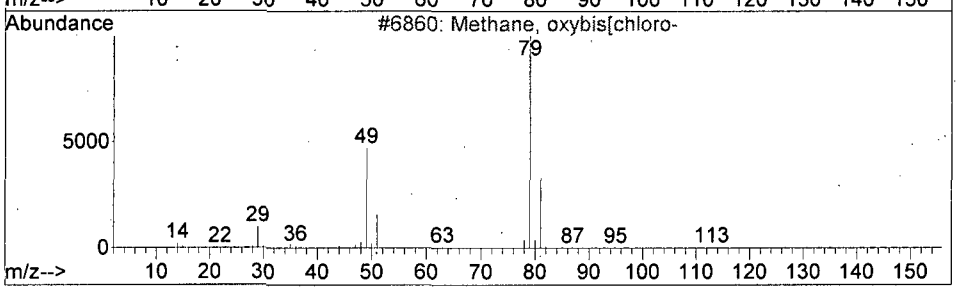
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	9.13 ug/L	14203600	1,4-Difluorobenzene	8.08

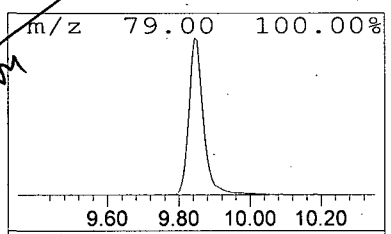
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17

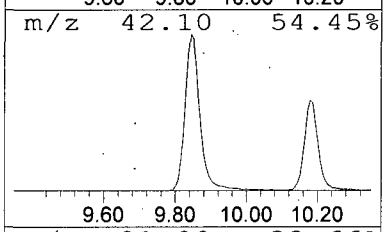


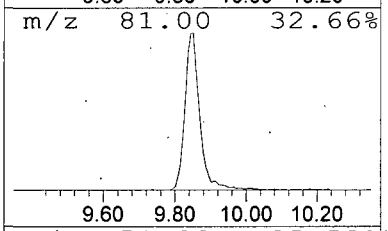


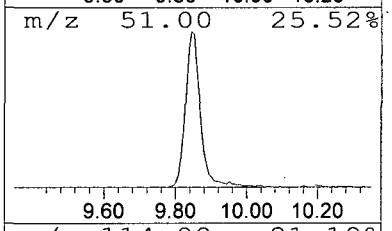


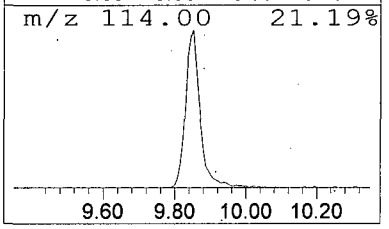












0861

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\1\DATA\
Data File : B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

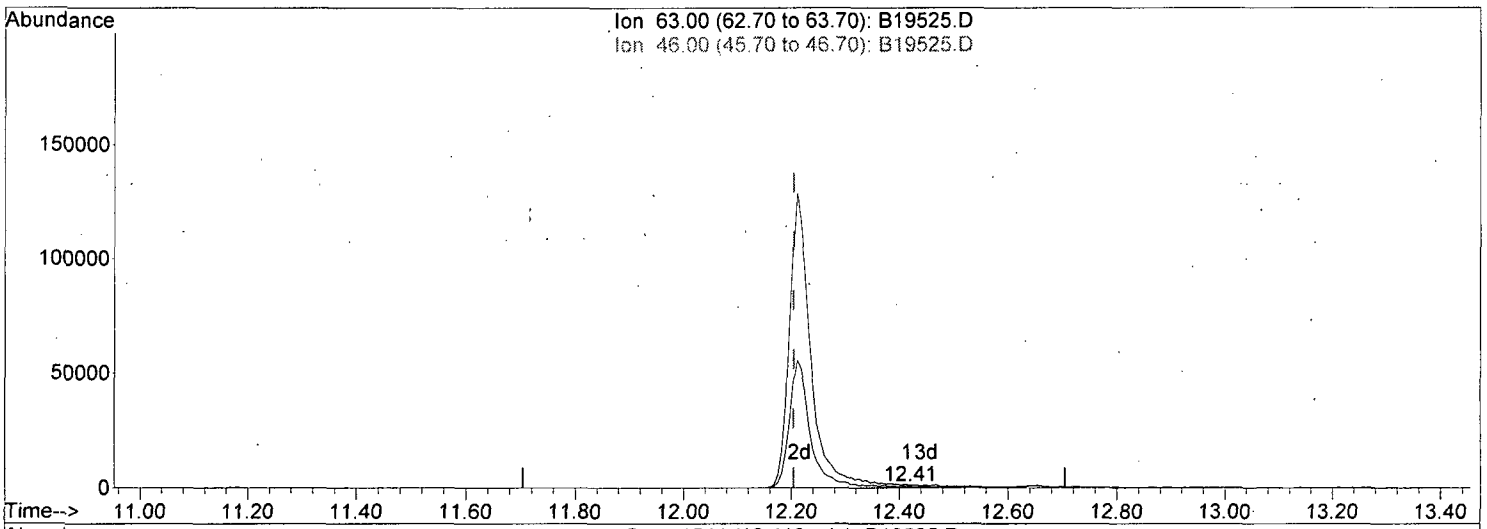
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Ethylene oxide	1.56	918.5	ug/L	1428420000	1	8.08	7775770	5.0
1-Adamantanemethy...	2.25	10.1	ug/L	15657100	1	8.08	7775770	5.0
Carbonothioic dic...	9.85	9.1	ug/L	14203600	1	8.08	7775770	5.0

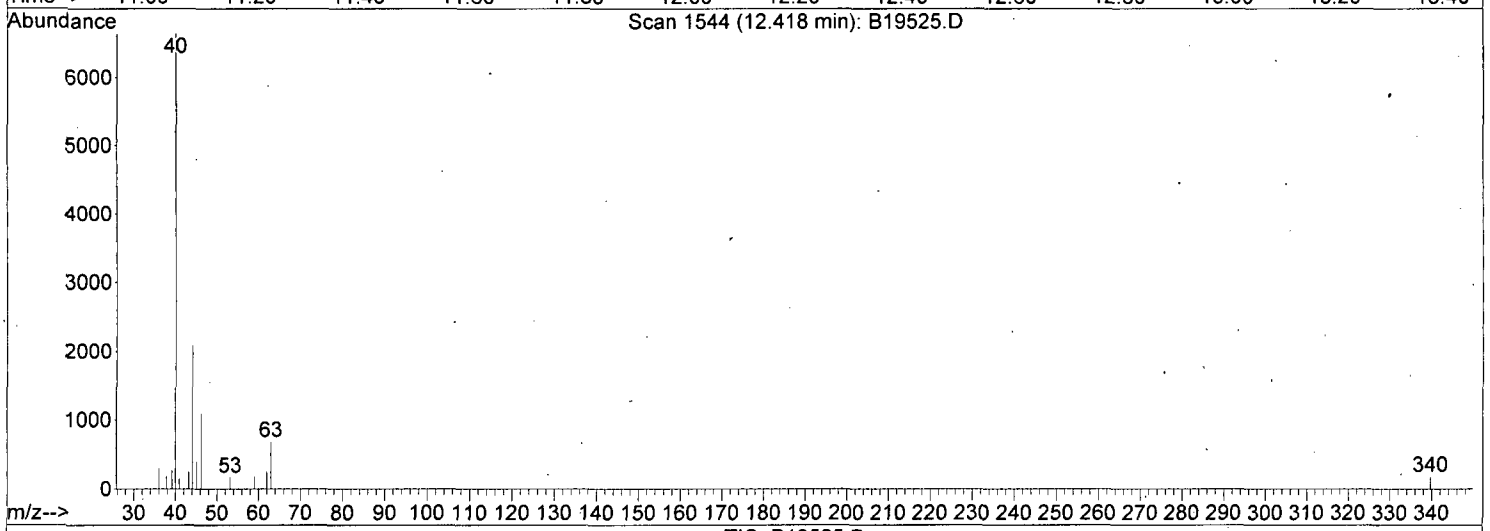
0862

Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 14:44:48 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 07:46:36 2008
Response via : Initial Calibration





TIC: B19525.D

(47) 2-Hexanone-d5 (S)

12.415min (+0.210) 0.39ug/L

response 12532

Ion	Exp%	Act%
63.00	100	100
46.00	193.50	217.36
0.00	0.00	0.00
0.00	0.00	0.00

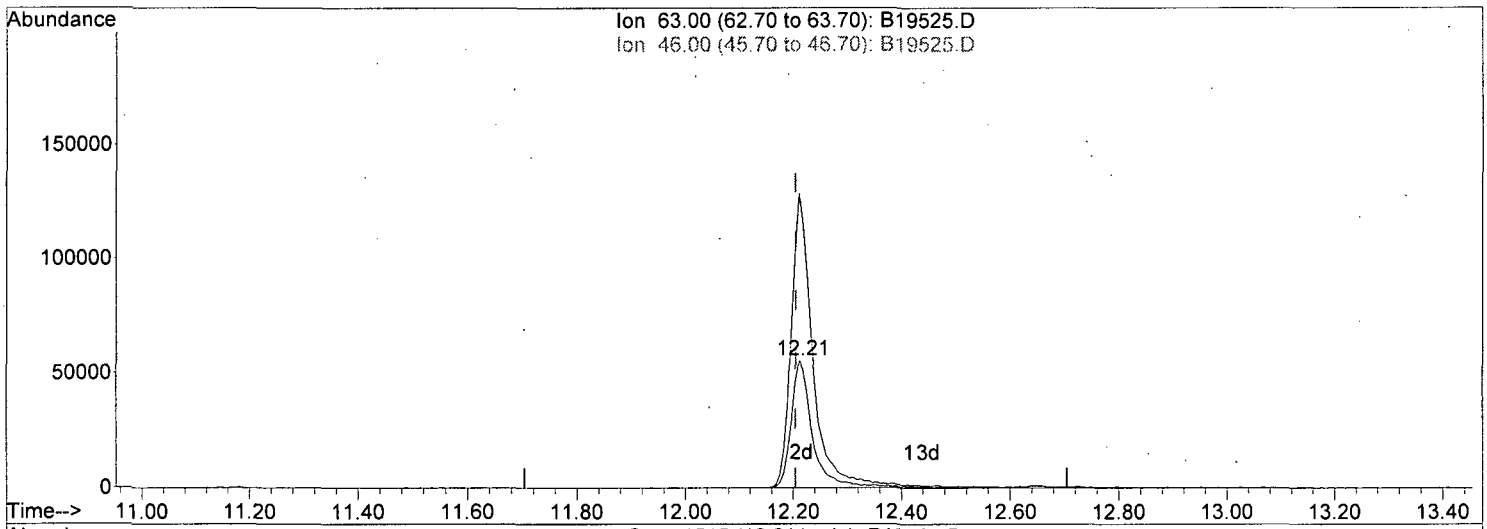
0863

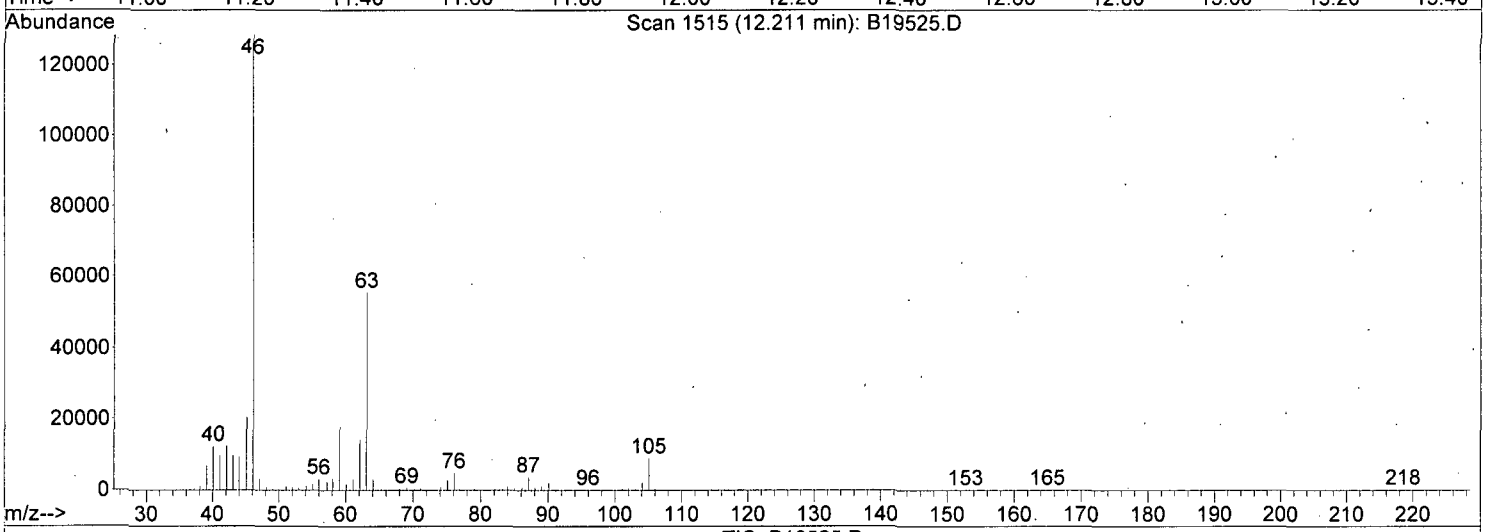
Quantitation Report (Qedit)

Data File: C:\MSDChem\1\DATA\B19525.D
Acq On : 11/26/08 14:11 Operator: SB
Sample : VIBLK13 Inst : B-5973
Misc : VIBLK13 25ML
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 14:44:48 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT19489.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.2
QLast Update : Thu Nov 27 07:46:36 2008
Response via : Initial Calibration

11/28/08





TIC: B19525.D

(47) 2-Hexanone-d5 (S)

12.211min (+0.006) 47.73ug/L m

response 1533196

Ion	Exp%	Act%
63.00	100	100
46.00	193.50	1.78#
0.00	0.00	0.00
0.00	0.00	0.00

0864

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK31

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17048

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK31

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17048

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK31

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17048

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	10	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

11/28/08

Quant Time: Nov 28 11:52:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1259402	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1228198	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	373166	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	719288	4.38	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 87.60%			
7) Chloroethane-d5	2.80	69	497832	5.13	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 102.60%			
10) 1,1-Dichloroethene-d2	3.72	63	1504043	3.72	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 74.40%			
21) 2-Butanone-d5	7.59	46	1793846	60.80	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 121.60%			
24) Chloroform-d	7.15	84	2006039	4.50	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 90.00%			
26) 1,2-Dichloroethane-d4	8.22	65	984076	5.53	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 110.60%			
32) Benzene-d6	7.97	84	3951089	4.36	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 87.20%			
36) 1,2-Dichloropropane-d6	9.58	67	1170633	4.35	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 87.00%			
41) Toluene-d8	11.09	98	3819252	4.60	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 92.00%			
43) trans-1,3-Dichloropropene-	11.83	79	1020348	4.35	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 87.00%			
47) 2-Hexanone-d5	13.14	63	798606	58.98	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 117.96%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	626129	4.89	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 97.80%			
63) 1,2-Dichlorobenzene-d4	18.42	152	953962	5.62	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 112.40%			

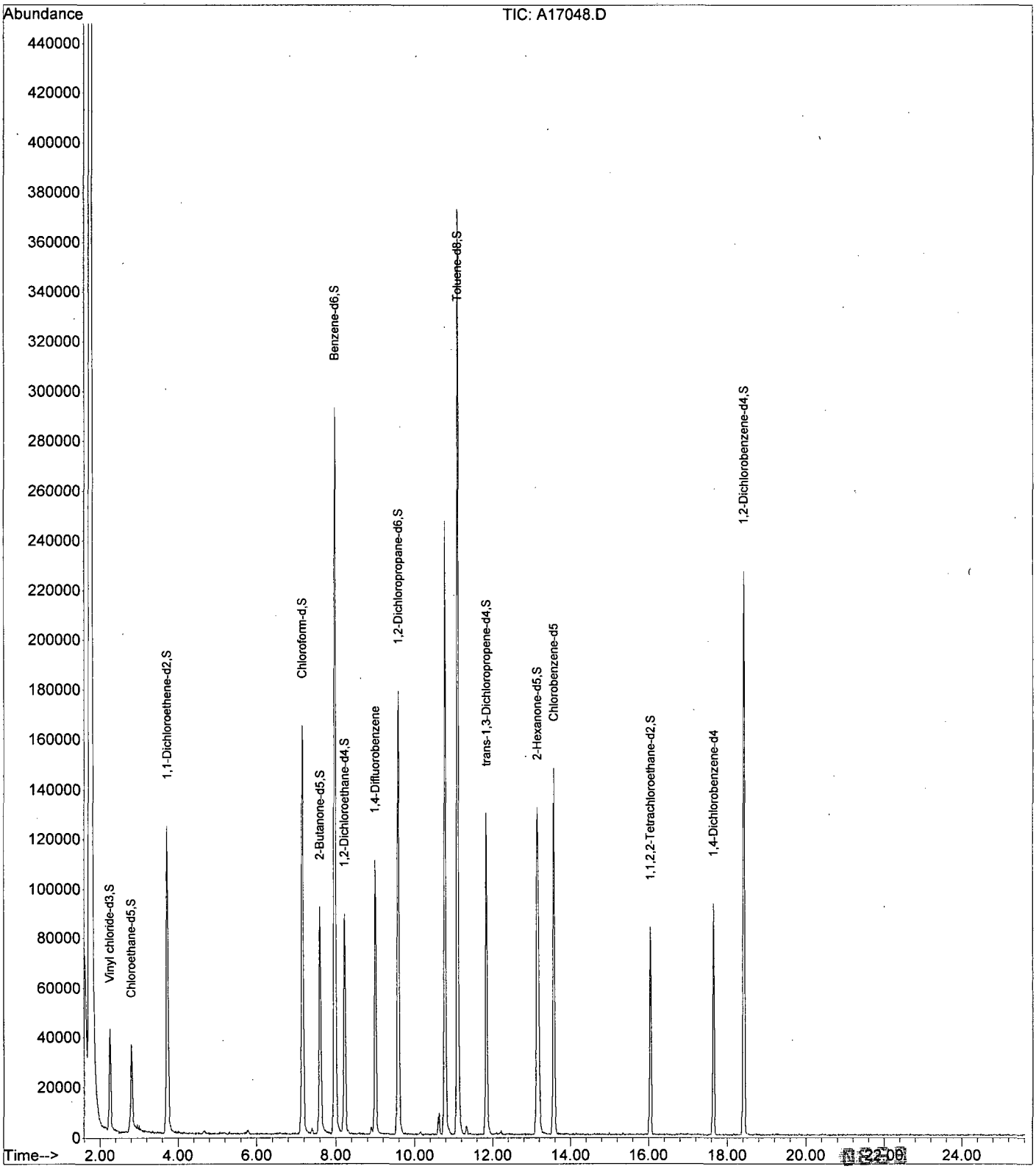
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0868

Data File: C:\MSDCHEM\1\DATA\A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 11:52:58 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.029	61	63	72	BV	573	2223	0.02%	0.003%
2	2.115	72	75	78	PV	796	11562	0.11%	0.014%
3	2.150	78	80	85	VV 3	949	17889	0.17%	0.022%
4	2.251	85	94	105	PV 2	40741	1183992	11.34%	1.455%
5	2.337	105	106	113	VV 3	1636	36921	0.35%	0.045%
6	2.394	113	114	119	VV	1242	20813	0.20%	0.026%
7	2.437	119	120	127	VV 2	939	29328	0.28%	0.036%
8	2.501	127	129	131	PV	676	7232	0.07%	0.009%
9	2.537	131	134	136	VV	728	8950	0.09%	0.011%
10	2.566	136	138	146	VV 3	778	25132	0.24%	0.031%
11	2.638	146	148	150	VV 2	840	10892	0.10%	0.013%
12	2.666	150	152	154	VV 2	983	11015	0.11%	0.014%
13	2.695	154	156	160	VV 2	807	14384	0.14%	0.018%
14	2.802	160	171	183	VV	35178	1214245	11.63%	1.492%
15	2.903	183	185	191	VV 3	3174	87813	0.84%	0.108%
16	2.960	191	193	195	VV 3	3563	47232	0.45%	0.058%
17	3.010	195	200	218	VV 2	2849	157475	1.51%	0.193%
18	3.153	218	220	222	VV	1367	16338	0.16%	0.020%
19	3.189	222	225	229	VV 3	1114	30549	0.29%	0.038%
20	3.246	229	233	243	VV 2	1156	43198	0.41%	0.053%
21	3.354	243	248	253	VV 2	1254	27789	0.27%	0.034%
22	3.411	253	256	262	VV 3	613	15609	0.15%	0.019%
23	3.468	262	264	270	VV 2	824	20098	0.19%	0.025%
24	3.533	270	273	275	VV	782	10148	0.10%	0.012%
25	3.562	275	277	283	VV 2	724	15974	0.15%	0.020%
26	3.619	283	285	287	VV	608	5969	0.06%	0.007%
27	3.719	287	299	320	VV	123063	4130451	39.56%	5.075%
28	3.877	320	321	330	VV 2	1383	40574	0.39%	0.050%
29	3.948	330	331	340	VV 2	1159	32797	0.31%	0.040%
30	4.027	340	342	349	VV 3	1101	25178	0.24%	0.031%
31	4.092	349	351	355	VV 3	715	11258	0.11%	0.014%
32	4.142	355	358	360	VV 2	901	13182	0.13%	0.016%
33	4.170	360	362	365	VV	737	9135	0.09%	0.011%
34	4.213	365	368	371	VV	584	10303	0.10%	0.013%
35	4.249	371	373	375	VV	398	4461	0.04%	0.005%
36	4.292	375	379	386	VV 2	651	21028	0.20%	0.026%
37	4.364	386	389	395	VV 2	638	15500	0.15%	0.019%
38	4.436	395	399	402	VV	386	9371	0.09%	0.012%
39	4.507	402	409	412	VV 2	665	18238	0.17%	0.022%
40	4.564	412	417	422	VV 2	646	13688	0.13%	0.017%
41	4.665	422	431	432	VV 3	1454	33748	0.32%	0.041%
42	4.686	432	434	438	VV 3	1505	25764	0.25%	0.032%
43	4.729	438	440	442	VV 2	798	9908	0.09%	0.012%
44	4.772	442	446	452	VV 2	693	20729	0.20%	0.025%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.837	452	455	460	VV 2	525	10348	0.10%	0.013%
46	4.887	460	462	464	VV 2	605	5303	0.05%	0.007%
47	4.915	464	466	467	VV	444	4386	0.04%	0.005%
48	4.937	467	469	472	VV 2	711	8941	0.09%	0.011%
49	4.980	472	475	476	VV	490	6331	0.06%	0.008%
50	5.001	476	478	482	VV 2	535	7677	0.07%	0.009%
51	5.044	482	484	486	VV 2	675	9107	0.09%	0.011%
52	5.073	486	488	492	VV	1009	14901	0.14%	0.018%
53	5.116	492	494	496	VV 2	818	8625	0.08%	0.011%
54	5.137	496	497	501	VV	747	11770	0.11%	0.014%
55	5.173	501	502	504	VV	862	9546	0.09%	0.012%
56	5.202	504	506	516	VV 2	780	20085	0.19%	0.025%
57	5.317	516	522	526	PV 2	999	20463	0.20%	0.025%
58	5.360	526	528	532	VV 2	512	9392	0.09%	0.012%
59	5.403	532	534	535	VV	486	6476	0.06%	0.008%
60	5.424	535	537	540	VV 2	694	11079	0.11%	0.014%
61	5.460	540	542	548	VV	685	13086	0.13%	0.016%
62	5.510	548	549	556	VV 2	698	15692	0.15%	0.019%
63	5.574	556	558	560	VV	395	5276	0.05%	0.006%
64	5.603	560	562	567	VV 2	597	12915	0.12%	0.016%
65	5.682	567	573	575	VV 2	824	17666	0.17%	0.022%
66	5.725	575	579	582	VV 2	995	20944	0.20%	0.026%
67	5.768	582	585	586	VV 2	1818	22806	0.22%	0.028%
68	5.789	586	588	592	VV 3	1823	29671	0.28%	0.036%
69	5.832	592	594	597	VV 2	599	7168	0.07%	0.009%
70	5.890	597	602	604	VV 2	453	8762	0.08%	0.011%
71	5.925	604	607	613	VV 2	445	11425	0.11%	0.014%
72	5.983	613	615	618	VV 2	575	7496	0.07%	0.009%
73	6.019	618	620	622	VV	808	8391	0.08%	0.010%
74	6.047	622	624	632	VV	402	13308	0.13%	0.016%
75	6.119	632	634	636	VV 2	639	10000	0.10%	0.012%
76	6.147	636	638	643	VV 2	647	10688	0.10%	0.013%
77	6.241	643	651	652	VV	686	13800	0.13%	0.017%
78	6.255	652	653	655	VV	558	4781	0.05%	0.006%
79	6.291	655	658	663	VV 2	519	10224	0.10%	0.013%
80	6.341	663	665	668	VV 2	486	7864	0.08%	0.010%
81	6.427	668	677	679	VV 2	446	14084	0.13%	0.017%
82	6.463	679	682	686	VV 2	678	13628	0.13%	0.017%
83	6.520	686	690	694	VV	785	14098	0.14%	0.017%
84	6.570	694	697	706	VV 2	880	27747	0.27%	0.034%
85	6.670	706	711	715	VV 2	624	12970	0.12%	0.016%
86	6.728	715	719	722	VV	793	12775	0.12%	0.016%
87	6.771	722	725	727	VV	618	8128	0.08%	0.010%
88	6.792	727	728	730	VV	283	2928	0.03%	0.004%
89	6.821	730	732	737	VV 2	440	8414	0.08%	0.010%
90	6.892	737	742	744	VV 2	585	9034	0.09%	0.011%
91	6.921	744	746	750	VV 2	766	10130	0.10%	0.013%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	6.978	750	754	759	VV	787	15808	0.15%	0.019%
93	7.029	759	761	763	VV	455	5672	0.05%	0.007%
94	7.050	763	764	767	VV	701	6965	0.07%	0.009%
95	7.150	767	778	801	VV	163934	5341852	51.16%	6.563%
96	7.322	801	802	804	VV 2	1097	13027	0.12%	0.016%
97	7.358	804	807	809	VV 2	957	15668	0.15%	0.019%
98	7.401	809	813	820	VV 3	2615	68863	0.66%	0.085%
99	7.465	820	822	827	VV 2	571	14119	0.14%	0.017%
100	7.594	827	840	858	VV	91176	3004398	28.77%	3.691%
101	7.731	858	859	864	VV 2	1909	41375	0.40%	0.051%
102	7.795	864	868	873	VV 2	1280	38723	0.37%	0.048%
103	7.852	873	876	878	VV 2	1099	16492	0.16%	0.020%
104	7.881	878	880	882	VV	840	10060	0.10%	0.012%
105	7.974	882	893	911	VV	288616	8758196	83.88%	10.761%
106	8.117	911	913	917	VV 2	2105	40401	0.39%	0.050%
107	8.218	917	927	948	VV 2	88894	2804774	26.86%	3.446%
108	8.404	948	953	960	VV 2	815	24737	0.24%	0.030%
109	8.468	960	962	965	VV 2	541	7607	0.07%	0.009%
110	8.497	965	966	970	VV 2	535	8351	0.08%	0.010%
111	8.540	970	972	974	VV	481	5651	0.05%	0.007%
112	8.597	974	980	984	VV 2	776	23692	0.23%	0.029%
113	8.640	984	986	987	VV 2	474	5158	0.05%	0.006%
114	8.655	987	988	991	VV	696	7163	0.07%	0.009%
115	8.697	991	994	996	VV	776	10426	0.10%	0.013%
116	8.719	996	997	999	VV	454	3626	0.03%	0.004%
117	8.769	999	1004	1008	VV 2	441	11838	0.11%	0.015%
118	8.905	1008	1023	1027	VV 6	3058	90963	0.87%	0.112%
119	8.998	1027	1036	1053	VV	108294	3125616	29.93%	3.840%
120	9.127	1053	1054	1060	VV	777	19270	0.18%	0.024%
121	9.192	1060	1063	1065	VV	636	11421	0.11%	0.014%
122	9.228	1065	1068	1070	VV 2	624	10681	0.10%	0.013%
123	9.256	1070	1072	1073	VV	541	6082	0.06%	0.007%
124	9.278	1073	1075	1087	VV 2	606	26665	0.26%	0.033%
125	9.378	1087	1089	1091	VV 2	405	4555	0.04%	0.006%
126	9.407	1091	1093	1098	VV 2	556	12360	0.12%	0.015%
127	9.464	1098	1101	1106	VV	551	13644	0.13%	0.017%
128	9.579	1106	1117	1138	VV	178104	5608704	53.71%	6.891%
129	9.736	1138	1139	1141	VV	772	7669	0.07%	0.009%
130	9.765	1141	1143	1144	VV	1124	12314	0.12%	0.015%
131	9.786	1144	1146	1148	VV 2	872	10420	0.10%	0.013%
132	9.836	1148	1153	1155	VV	820	15137	0.14%	0.019%
133	9.858	1155	1156	1159	VV 2	705	10468	0.10%	0.013%
134	9.894	1159	1161	1162	VV	620	6952	0.07%	0.009%
135	9.915	1162	1164	1175	VV	705	23621	0.23%	0.029%
136	10.015	1175	1178	1191	VV 2	723	28849	0.28%	0.035%
137	10.137	1191	1195	1197	VV 2	1168	19889	0.19%	0.024%
138	10.159	1197	1198	1202	VV	1382	20408	0.20%	0.025%
139	10.216	1202	1206	1208	VV	561	9144	0.09%	0.011%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.245	1208	1210	1214	PV	559	8379	0.08%	0.010%
141	10.281	1214	1215	1220	VV	720	12134	0.12%	0.015%
142	10.324	1220	1221	1232	VV 2	506	21261	0.20%	0.026%
143	10.417	1232	1234	1236	VV 2	498	5792	0.06%	0.007%
144	10.474	1236	1242	1248	VV 2	694	21479	0.21%	0.026%
145	10.531	1248	1250	1256	VV 2	666	11408	0.11%	0.014%
146	10.624	1256	1263	1270	VV 5	8933	243808	2.33%	0.300%
147	10.689	1270	1272	1274	VV 2	699	10049	0.10%	0.012%
148	10.768	1274	1283	1298	VV	242537	6471629	61.98%	7.951%
149	10.882	1298	1299	1316	VV 3	2746	81411	0.78%	0.100%
150	11.097	1316	1329	1350	VV 2	369558	10441619	100.00%	12.829%
151	11.262	1350	1352	1355	VV 2	753	14129	0.14%	0.017%
152	11.341	1355	1363	1368	VV 4	3637	107854	1.03%	0.133%
153	11.405	1368	1372	1375	VV 2	776	19630	0.19%	0.024%
154	11.441	1375	1377	1379	VV 2	912	10875	0.10%	0.013%
155	11.477	1379	1382	1387	VV 2	439	12533	0.12%	0.015%
156	11.520	1387	1388	1390	VV 2	453	6035	0.06%	0.007%
157	11.570	1390	1395	1400	VV 2	668	16999	0.16%	0.021%
158	11.620	1400	1402	1404	VV	524	5536	0.05%	0.007%
159	11.649	1404	1406	1409	VV 2	762	10182	0.10%	0.013%
160	11.685	1409	1411	1417	VV 2	597	15121	0.14%	0.019%
161	11.835	1417	1432	1458	VV	129257	3578362	34.27%	4.397%
162	12.035	1458	1460	1463	VV 2	701	11884	0.11%	0.015%
163	12.107	1463	1470	1472	VV 4	1181	27500	0.26%	0.034%
164	12.164	1472	1478	1480	VV 3	932	20580	0.20%	0.025%
165	12.222	1480	1486	1488	VV 2	1913	39639	0.38%	0.049%
166	12.250	1488	1490	1496	VV 2	983	21074	0.20%	0.026%
167	12.308	1496	1498	1502	VV	620	10404	0.10%	0.013%
168	12.351	1502	1504	1506	VV	782	9776	0.09%	0.012%
169	12.401	1506	1511	1514	VV 3	763	19804	0.19%	0.024%
170	12.437	1514	1516	1519	VV 2	792	12041	0.12%	0.015%
171	12.480	1519	1522	1525	VV 2	722	12154	0.12%	0.015%
172	12.515	1525	1527	1534	VV 2	659	16270	0.16%	0.020%
173	12.580	1534	1536	1538	VV	595	7990	0.08%	0.010%
174	12.616	1538	1541	1547	VV 2	514	15095	0.14%	0.019%
175	12.673	1547	1549	1553	VV 2	592	12856	0.12%	0.016%
176	12.716	1553	1555	1559	VV 2	561	10687	0.10%	0.013%
177	12.759	1559	1561	1564	VV 2	641	9794	0.09%	0.012%
178	12.809	1564	1568	1570	VV 2	760	12924	0.12%	0.016%
179	12.831	1570	1571	1576	VV	589	10599	0.10%	0.013%
180	12.895	1576	1580	1585	VV	629	18009	0.17%	0.022%
181	12.945	1585	1587	1591	VV	745	12474	0.12%	0.015%
182	13.045	1591	1601	1603	VV 2	706	20660	0.20%	0.025%
183	13.139	1603	1614	1633	VV 2	130498	5553277	53.18%	6.823%
184	13.289	1633	1635	1640	VV 2	1667	35138	0.34%	0.043%
185	13.339	1640	1642	1647	VV 3	1307	27783	0.27%	0.034%
186	13.389	1647	1649	1655	VV 2	1004	21471	0.21%	0.026%

0873

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.454	1655	1658	1664	VV 2	905	22508	0.22%	0.028%
188	13.561	1664	1673	1688	VV	145106	3954876	37.88%	4.859%
189	13.690	1688	1691	1695	VV 2	1114	21753	0.21%	0.027%
190	13.733	1695	1697	1700	VV 2	952	13060	0.13%	0.016%
191	13.790	1700	1705	1708	VV 2	796	19788	0.19%	0.024%
192	13.819	1708	1709	1712	VV	781	9117	0.09%	0.011%
193	13.862	1712	1715	1717	VV	857	12274	0.12%	0.015%
194	13.905	1717	1721	1724	VV 2	902	19007	0.18%	0.023%
195	13.941	1724	1726	1732	VV 2	618	15708	0.15%	0.019%
196	14.012	1732	1736	1738	VV 2	575	10920	0.10%	0.013%
197	14.048	1738	1741	1743	VV 2	561	8135	0.08%	0.010%
198	14.077	1743	1745	1750	VV	859	14653	0.14%	0.018%
199	14.141	1750	1754	1760	VV	1109	24487	0.23%	0.030%
200	14.213	1760	1764	1766	VV 2	647	12875	0.12%	0.016%
201	14.256	1766	1770	1772	VV	776	11675	0.11%	0.014%
202	14.292	1772	1775	1779	VV 2	622	14196	0.14%	0.017%
203	14.335	1779	1781	1788	VV 2	670	14963	0.14%	0.018%
204	14.399	1788	1790	1792	VV	567	6013	0.06%	0.007%
205	14.442	1792	1796	1804	VV 2	677	22641	0.22%	0.028%
206	14.514	1804	1806	1815	VV 2	465	17039	0.16%	0.021%
207	14.621	1815	1821	1824	VV 2	878	18819	0.18%	0.023%
208	14.686	1824	1830	1844	VV 3	798	43223	0.41%	0.053%
209	14.829	1844	1850	1852	VV 2	808	18107	0.17%	0.022%
210	14.851	1852	1853	1860	VV 2	559	15238	0.15%	0.019%
211	14.958	1860	1868	1870	VV 2	568	16409	0.16%	0.020%
212	14.994	1870	1873	1878	VV	1290	19659	0.19%	0.024%
213	15.073	1878	1884	1887	VV 2	539	13603	0.13%	0.017%
214	15.108	1887	1889	1891	VV	664	8945	0.09%	0.011%
215	15.137	1891	1893	1895	VV	594	5251	0.05%	0.006%
216	15.166	1895	1897	1903	VV	699	15983	0.15%	0.020%
217	15.230	1903	1906	1908	VV	503	8536	0.08%	0.010%
218	15.259	1908	1910	1913	VV 2	523	7660	0.07%	0.009%
219	15.295	1913	1915	1917	VV 2	389	5713	0.05%	0.007%
220	15.345	1917	1922	1930	VV 2	1150	30683	0.29%	0.038%
221	15.431	1930	1934	1936	VV	593	10118	0.10%	0.012%
222	15.459	1936	1938	1941	VV 2	663	10430	0.10%	0.013%
223	15.495	1941	1943	1948	VV 2	736	16520	0.16%	0.020%
224	15.545	1948	1950	1954	VV 2	626	11688	0.11%	0.014%
225	15.603	1954	1958	1962	VV 2	558	15418	0.15%	0.019%
226	15.646	1962	1964	1966	VV	381	5264	0.05%	0.006%
227	15.696	1966	1971	1974	VV 2	630	15044	0.14%	0.018%
228	15.732	1974	1976	1978	VV	859	10077	0.10%	0.012%
229	15.753	1978	1979	1982	VV	485	7670	0.07%	0.009%
230	15.789	1982	1984	1986	VV	588	7810	0.07%	0.010%
231	15.810	1986	1987	1991	VV	798	11030	0.11%	0.014%
232	15.853	1991	1993	1999	VV 2	612	14253	0.14%	0.018%
233	15.911	1999	2001	2003	VV 2	768	9836	0.09%	0.012%
234	15.939	2003	2005	2011	VV 2	616	17120	0.16%	0.021%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.040	2011	2019	2031	VV 2	82436	2253675	21.58%	2.769%
236	16.133	2031	2032	2034	VV	721	7671	0.07%	0.009%
237	16.161	2034	2036	2044	VV 2	739	21878	0.21%	0.027%
238	16.233	2044	2046	2050	VV	524	9168	0.09%	0.011%
239	16.283	2050	2053	2058	VV 2	835	16436	0.16%	0.020%
240	16.340	2058	2061	2064	VV 2	587	11560	0.11%	0.014%
241	16.376	2064	2066	2068	VV 2	664	8281	0.08%	0.010%
242	16.412	2068	2071	2073	VV 2	651	8777	0.08%	0.011%
243	16.455	2073	2077	2082	VV 2	743	18536	0.18%	0.023%
244	16.512	2082	2085	2089	VV 2	495	12066	0.12%	0.015%
245	16.577	2089	2094	2097	VV 2	611	13356	0.13%	0.016%
246	16.620	2097	2100	2108	PV 2	461	12833	0.12%	0.016%
247	16.706	2108	2112	2114	VV 2	677	10191	0.10%	0.013%
248	16.770	2114	2121	2125	VV 2	667	22985	0.22%	0.028%
249	16.813	2125	2127	2132	VV 2	788	17952	0.17%	0.022%
250	16.863	2132	2134	2136	VV	610	9217	0.09%	0.011%
251	16.892	2136	2138	2142	VV 2	651	13210	0.13%	0.016%
252	16.949	2142	2146	2148	VV	793	10328	0.10%	0.013%
253	16.999	2148	2153	2157	VV 3	819	23129	0.22%	0.028%
254	17.042	2157	2159	2164	VV 2	477	11746	0.11%	0.014%
255	17.100	2164	2167	2169	VV	619	9019	0.09%	0.011%
256	17.136	2169	2172	2176	VV	493	10923	0.10%	0.013%
257	17.179	2176	2178	2182	VV	736	9488	0.09%	0.012%
258	17.243	2182	2187	2189	VV 2	641	12451	0.12%	0.015%
259	17.272	2189	2191	2195	VV 2	643	12501	0.12%	0.015%
260	17.336	2195	2200	2202	VV 2	662	13210	0.13%	0.016%
261	17.393	2202	2208	2210	VV 2	713	12049	0.12%	0.015%
262	17.458	2210	2217	2219	VV 2	564	16767	0.16%	0.021%
263	17.515	2219	2225	2226	VV 2	487	9129	0.09%	0.011%
264	17.537	2226	2228	2232	VV	651	12455	0.12%	0.015%
265	17.580	2232	2234	2236	VV 2	758	9200	0.09%	0.011%
266	17.644	2236	2243	2258	VV	91191	2336059	22.37%	2.870%
267	17.809	2258	2266	2272	VV 2	731	27966	0.27%	0.034%
268	17.881	2272	2276	2282	VV 2	504	17437	0.17%	0.021%
269	17.952	2282	2286	2287	VV 2	609	11224	0.11%	0.014%
270	17.974	2287	2289	2296	VV	619	16389	0.16%	0.020%
271	18.045	2296	2299	2301	VV 2	590	8567	0.08%	0.011%
272	18.067	2301	2302	2309	VV 2	498	14009	0.13%	0.017%
273	18.124	2309	2310	2312	VV	541	4487	0.04%	0.006%
274	18.160	2312	2315	2319	VV 2	879	16583	0.16%	0.020%
275	18.196	2319	2320	2324	VV 2	665	9635	0.09%	0.012%
276	18.239	2324	2326	2327	VV 2	636	6703	0.06%	0.008%
277	18.260	2327	2329	2333	VV 2	700	10323	0.10%	0.013%
278	18.317	2333	2337	2339	VV 2	546	12456	0.12%	0.015%
279	18.418	2339	2351	2372	VV 2	225646	6050533	57.95%	7.434%
280	18.597	2372	2376	2386	VV 2	554	23983	0.23%	0.029%
281	18.690	2386	2389	2391	VV 2	626	10692	0.10%	0.013%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.733	2391	2395	2399	VV 2	901	17056	0.16%	0.021%
283	18.776	2399	2401	2404	VV	698	10260	0.10%	0.013%
284	18.812	2404	2406	2412	VV 2	676	16038	0.15%	0.020%
285	18.912	2412	2420	2425	VV 2	667	21738	0.21%	0.027%
286	18.962	2425	2427	2428	VV	377	4291	0.04%	0.005%
287	18.984	2428	2430	2433	VV 2	480	8429	0.08%	0.010%
288	19.019	2433	2435	2439	VV	548	9235	0.09%	0.011%
289	19.120	2439	2449	2452	VV	666	24958	0.24%	0.031%
290	19.156	2452	2454	2456	VV	899	12210	0.12%	0.015%
291	19.184	2456	2458	2460	VV 2	452	6085	0.06%	0.007%
292	19.249	2460	2467	2470	VV 2	865	22167	0.21%	0.027%
293	19.292	2470	2473	2481	VV 2	927	25592	0.25%	0.031%
294	19.392	2481	2487	2492	VV	582	20496	0.20%	0.025%
295	19.456	2492	2496	2500	VV 2	521	13041	0.12%	0.016%
296	19.499	2500	2502	2503	VV 2	614	6702	0.06%	0.008%
297	19.521	2503	2505	2507	VV	679	7898	0.08%	0.010%
298	19.550	2507	2509	2511	VV	679	7638	0.07%	0.009%
299	19.578	2511	2513	2515	VV	450	5786	0.06%	0.007%
300	19.614	2515	2518	2525	VV 2	572	16586	0.16%	0.020%
301	19.671	2525	2526	2530	VV	455	6963	0.07%	0.009%
302	19.707	2530	2531	2536	VV	701	10927	0.10%	0.013%
303	19.757	2536	2538	2543	VV	526	9879	0.09%	0.012%
304	19.822	2543	2547	2549	VV	833	11451	0.11%	0.014%
305	19.843	2549	2550	2553	VV 2	591	8905	0.09%	0.011%
306	19.879	2553	2555	2557	VV	628	5057	0.05%	0.006%
307	19.908	2557	2559	2561	VV	705	6147	0.06%	0.008%
308	19.943	2561	2564	2569	VV 2	473	12215	0.12%	0.015%
309	20.015	2569	2574	2575	VV 2	499	8395	0.08%	0.010%
310	20.037	2575	2577	2583	VV 2	897	17039	0.16%	0.021%
311	20.094	2583	2585	2587	VV	507	5901	0.06%	0.007%
312	20.123	2587	2589	2591	VV	467	4601	0.04%	0.006%
313	20.144	2591	2592	2594	VV	505	5701	0.05%	0.007%
314	20.166	2594	2595	2597	VV	657	7345	0.07%	0.009%
315	20.201	2597	2600	2602	VV	618	11458	0.11%	0.014%
316	20.251	2602	2607	2609	VV 2	440	10025	0.10%	0.012%
317	20.273	2609	2610	2613	VV 2	497	6672	0.06%	0.008%
318	20.309	2613	2615	2620	VV 2	409	9988	0.10%	0.012%
319	20.366	2620	2623	2625	VV 2	524	7558	0.07%	0.009%
320	20.388	2625	2626	2628	VV	498	5037	0.05%	0.006%
321	20.416	2628	2630	2636	VV 2	911	19768	0.19%	0.024%
322	20.474	2636	2638	2640	VV	583	6317	0.06%	0.008%
323	20.495	2640	2641	2649	VV 2	776	14365	0.14%	0.018%
324	20.567	2649	2651	2654	VV	535	7078	0.07%	0.009%
325	20.595	2654	2655	2657	VV 2	584	4624	0.04%	0.006%
326	20.624	2657	2659	2661	PV	524	4152	0.04%	0.005%
327	20.681	2661	2667	2669	VV 2	533	11086	0.11%	0.014%
328	20.703	2669	2670	2672	VV	723	5365	0.05%	0.007%
329	20.753	2672	2677	2679	VV 2	534	11692	0.11%	0.014%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.782	2679	2681	2691	VV 2	389	19655	0.19%	0.024%
331	20.860	2691	2692	2694	VV	502	6054	0.06%	0.007%
332	20.889	2694	2696	2703	VV	529	14269	0.14%	0.018%
333	20.953	2703	2705	2717	VV 2	658	24051	0.23%	0.030%
334	21.061	2717	2720	2733	VV	764	29313	0.28%	0.036%
335	21.176	2733	2736	2738	VV	627	9738	0.09%	0.012%
336	21.197	2738	2739	2741	VV	511	6084	0.06%	0.007%
337	21.254	2741	2747	2750	VV	628	13581	0.13%	0.017%
338	21.290	2750	2752	2758	VV 2	553	11144	0.11%	0.014%
339	21.347	2758	2760	2765	VV 2	573	9247	0.09%	0.011%
340	21.390	2765	2766	2768	VV	438	3928	0.04%	0.005%
341	21.426	2768	2771	2777	VV 2	636	12873	0.12%	0.016%
342	21.484	2777	2779	2782	VV	744	10069	0.10%	0.012%
343	21.555	2782	2789	2790	VV 2	708	14779	0.14%	0.018%
344	21.577	2790	2792	2798	VV 2	522	13794	0.13%	0.017%
345	21.634	2798	2800	2802	VV	508	5009	0.05%	0.006%
346	21.655	2802	2803	2806	VV	710	7682	0.07%	0.009%
347	21.727	2806	2813	2817	VV 2	570	16699	0.16%	0.021%
348	21.770	2817	2819	2820	VV	418	4195	0.04%	0.005%
349	21.799	2820	2823	2825	VV	541	6683	0.06%	0.008%
350	21.820	2825	2826	2830	VV	740	9437	0.09%	0.012%
351	21.863	2830	2832	2833	VV 2	274	2776	0.03%	0.003%
352	21.892	2833	2836	2838	VV 2	480	7582	0.07%	0.009%
353	21.935	2838	2842	2845	VV 2	493	9922	0.10%	0.012%
354	21.963	2845	2846	2849	VV	429	4469	0.04%	0.005%
355	22.014	2849	2853	2855	VV 2	596	11022	0.11%	0.014%
356	22.042	2855	2857	2859	VV 2	418	4799	0.05%	0.006%
357	22.078	2859	2862	2868	VV	618	13545	0.13%	0.017%
358	22.143	2868	2871	2877	VV 2	384	10514	0.10%	0.013%
359	22.236	2877	2884	2886	VV 2	632	12986	0.12%	0.016%
360	22.264	2886	2888	2892	VV 2	421	7730	0.07%	0.009%
361	22.322	2892	2896	2899	VV	609	10186	0.10%	0.013%
362	22.372	2899	2903	2908	VV 2	567	13043	0.12%	0.016%
363	22.422	2908	2910	2914	VV 2	658	10385	0.10%	0.013%
364	22.472	2914	2917	2921	VV 2	503	9581	0.09%	0.012%
365	22.529	2921	2925	2926	VV 2	443	6905	0.07%	0.008%
366	22.565	2926	2930	2932	VV	504	9815	0.09%	0.012%
367	22.594	2932	2934	2937	VV	556	6732	0.06%	0.008%
368	22.637	2937	2940	2943	VV	393	5171	0.05%	0.006%
369	22.673	2943	2945	2948	VV	763	9649	0.09%	0.012%
370	22.708	2948	2950	2951	VV	570	5526	0.05%	0.007%
371	22.723	2951	2952	2958	VV 2	404	8429	0.08%	0.010%
372	22.787	2958	2961	2964	VV 2	420	5409	0.05%	0.007%
373	22.845	2964	2969	2974	VV 2	529	13702	0.13%	0.017%
374	22.895	2974	2976	2979	VV 2	410	6529	0.06%	0.008%
375	22.930	2979	2981	2985	PV	411	5741	0.05%	0.007%

0877

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

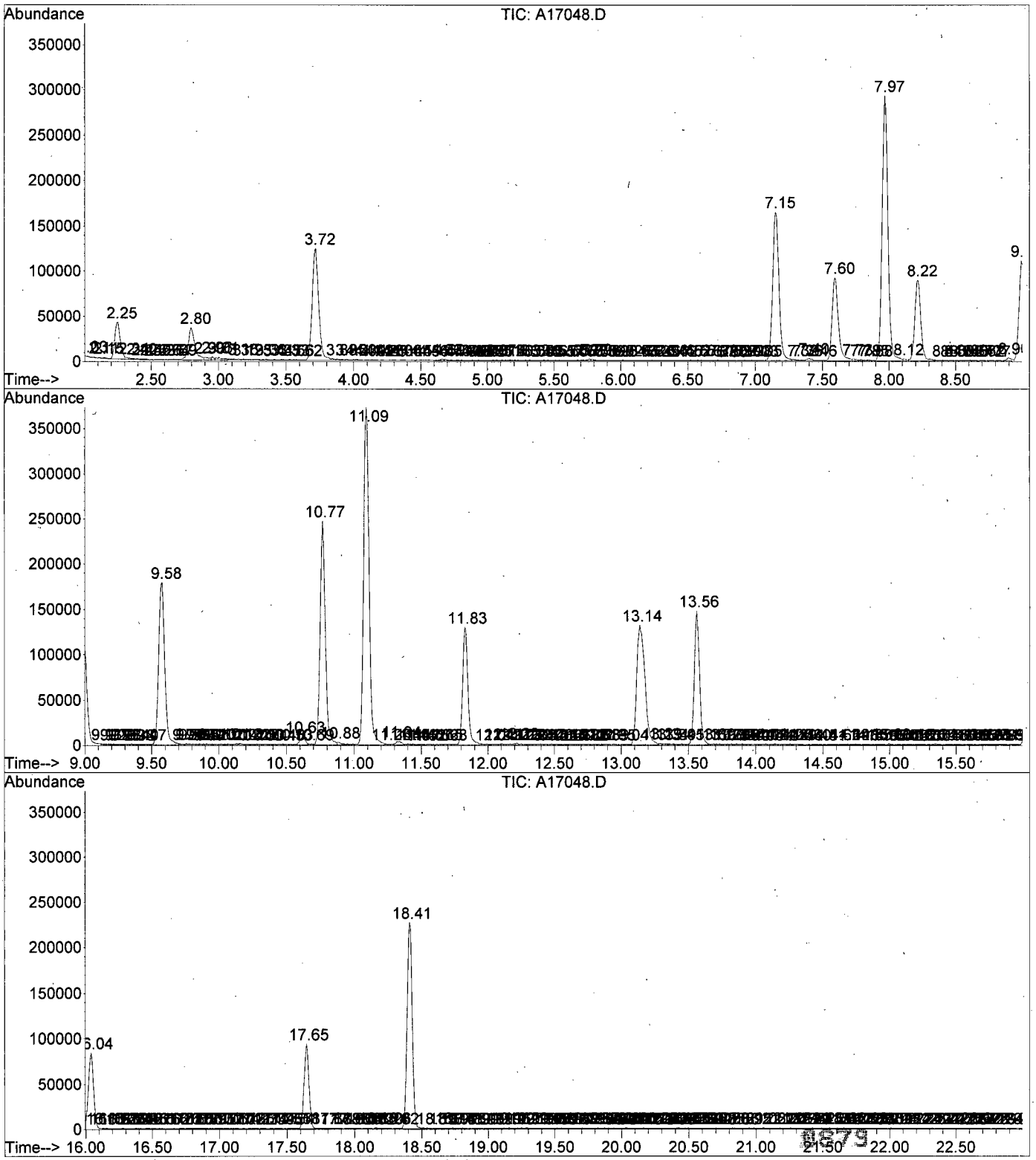
Sum of corrected areas: 81389372

0878

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

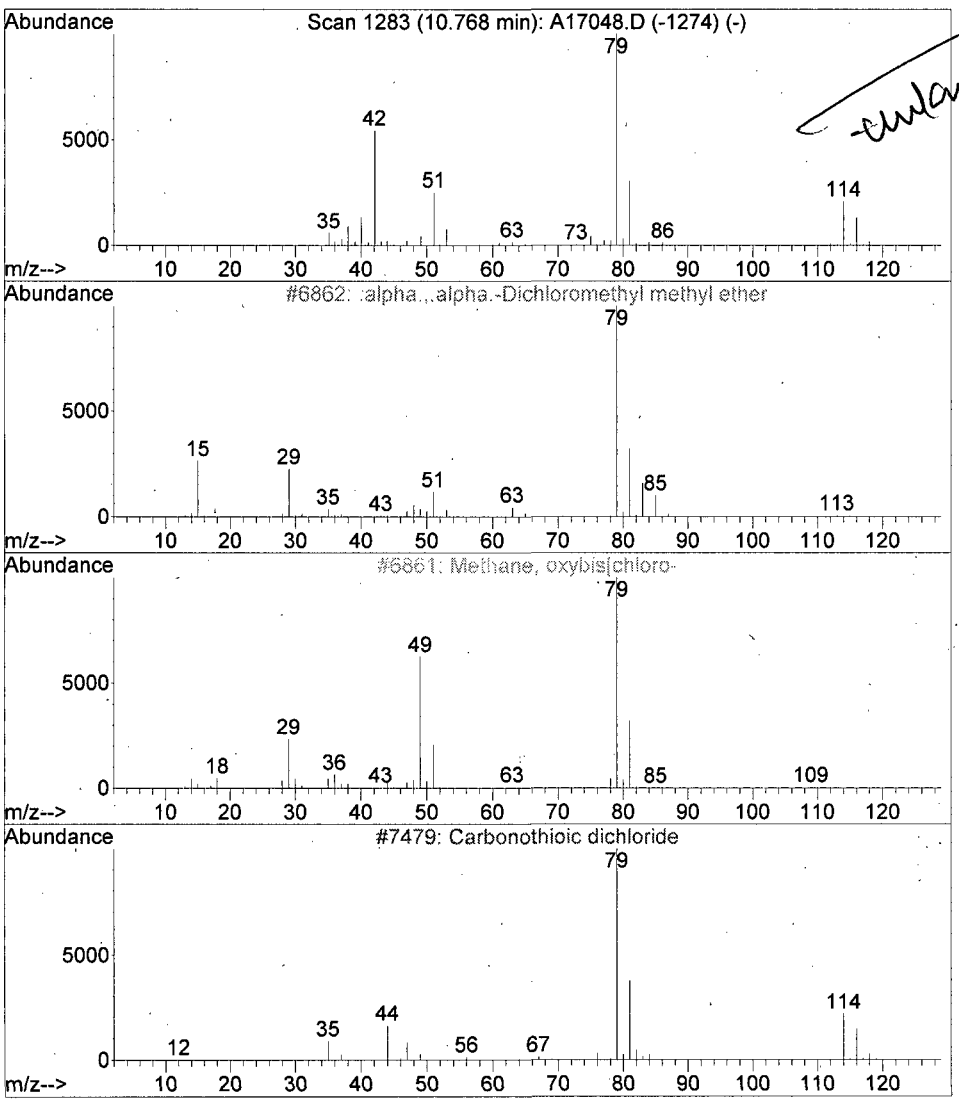
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

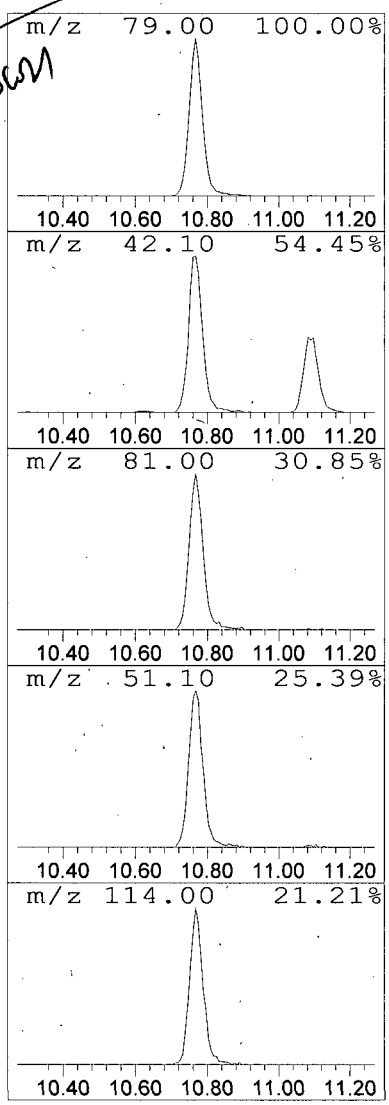
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 .alpha.,.alpha.-Dichloromet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	10.35 ug/L	6471630	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	32
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	32
3	Carbonothioic dichloride	114	CCl2S	000463-71-8	25
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17





0880

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17048.D
Acq On : 11/27/08 09:41 Operator: SB
Sample : VIBLK31 Inst : A-5973
Misc : VIBLK31 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.,.alpha.-D...	10.77	10.4	ug/L	6471630	1	9.00	3125620	5.0

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK32

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17050

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VIBLK32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK32

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17050

Level: (TRACE/LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VIBLK32

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17050

Level: (TRACE or LOW/MED) TRACE Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.77	11	JB
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 11:56:16 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

11/28/08

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1244554	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1210195	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	378282	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	750274	4.63	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 92.60%			
7) Chloroethane-d5	2.80	69	485284	5.06	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 101.20%			
10) 1,1-Dichloroethene-d2	3.72	63	1542125	3.86	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 77.20%			
21) 2-Butanone-d5	7.60	46	1791980	61.46	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 122.92%			
24) Chloroform-d	7.16	84	2048168	4.65	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 93.00%			
26) 1,2-Dichloroethane-d4	8.22	65	996660	5.67	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 113.40%			
32) Benzene-d6	7.98	84	3958923	4.44	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 88.80%			
36) 1,2-Dichloropropane-d6	9.58	67	1195694	4.51	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 90.20%			
41) Toluene-d8	11.10	98	3860628	4.72	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 94.40%			
43) trans-1,3-Dichloropropene-	11.84	79	1009447	4.37	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 87.40%			
47) 2-Hexanone-d5	13.14	63	799879	59.96	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 119.92%			
57) 1,1,2,2-Tetrachloroethane-	16.04	84	626424	4.97	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 99.40%			
63) 1,2-Dichlorobenzene-d4	18.42	152	993001	5.77	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 115.40%			

Target Compounds	Qvalue

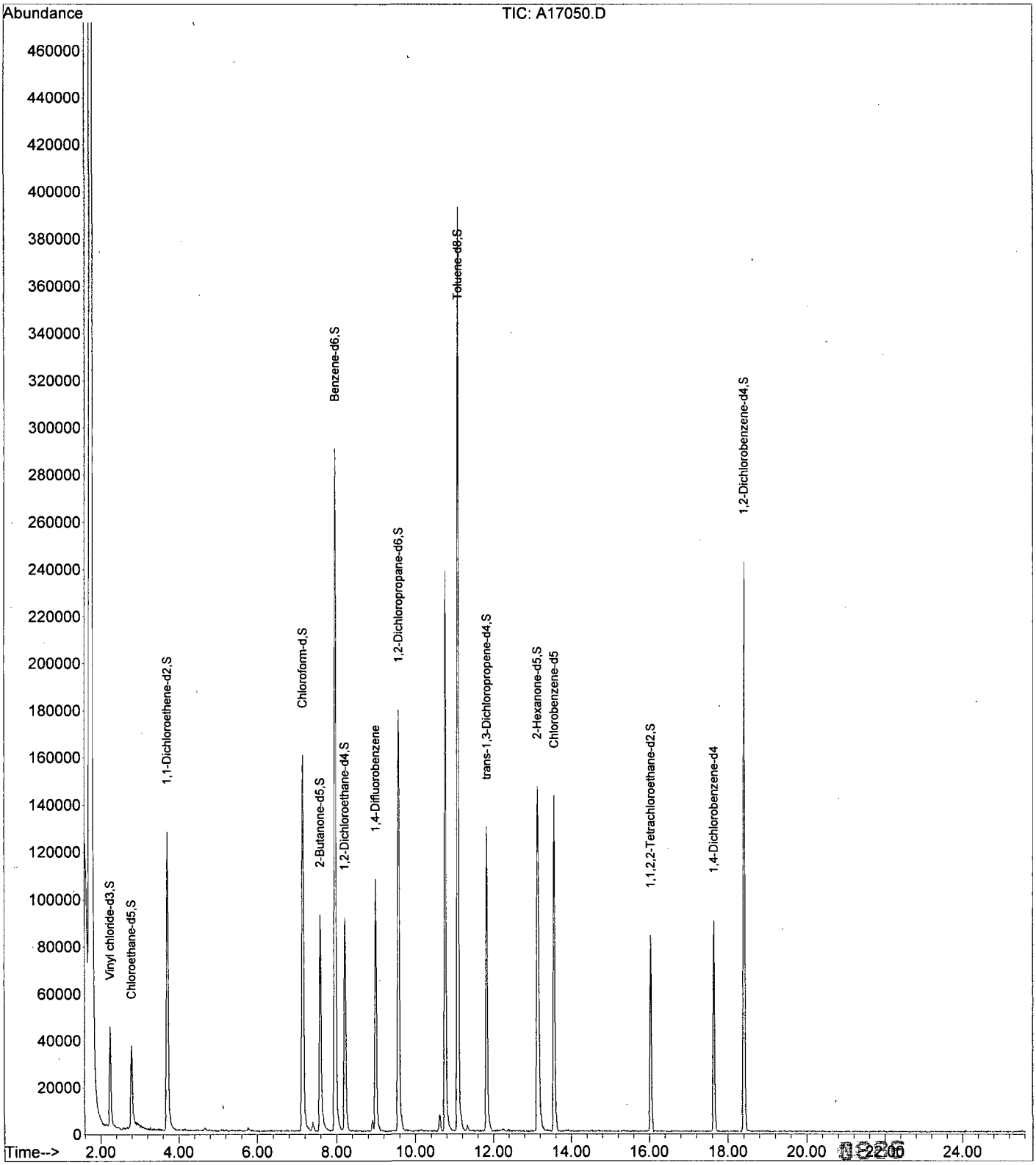
(#) = qualifier out of range (m) = manual integration (+) = signals summed

0885

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 28 11:56:16 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.079	64	70	75	BV 2	600	8224	0.08%	0.010%
2	2.143	75	79	86	PV 2	914	25767	0.24%	0.031%
3	2.251	86	94	113	VV 2	42467	1232568	11.62%	1.503%
4	2.401	113	115	119	VV 2	810	13287	0.13%	0.016%
5	2.444	119	121	128	VV 3	826	21105	0.20%	0.026%
6	2.502	128	129	133	VV 2	360	5312	0.05%	0.006%
7	2.580	133	140	141	PV 2	957	15892	0.15%	0.019%
8	2.609	141	144	146	VV	882	12002	0.11%	0.015%
9	2.652	146	150	152	VV	813	14861	0.14%	0.018%
10	2.681	152	154	158	VV 2	1234	22851	0.22%	0.028%
11	2.802	158	171	182	VV 2	36240	1222838	11.53%	1.491%
12	2.896	182	184	193	VV 5	3648	138667	1.31%	0.169%
13	2.974	193	195	202	VV 4	2702	80437	0.76%	0.098%
14	3.039	202	204	217	VV 3	1972	83747	0.79%	0.102%
15	3.146	217	219	226	VV 3	1109	28395	0.27%	0.035%
16	3.211	226	228	232	VV 2	943	16979	0.16%	0.021%
17	3.268	232	236	240	VV 2	1524	18995	0.18%	0.023%
18	3.318	240	243	245	VV 2	698	9990	0.09%	0.012%
19	3.347	245	247	249	VV 3	676	8542	0.08%	0.010%
20	3.375	249	251	255	VV 3	951	14564	0.14%	0.018%
21	3.469	255	264	268	VV 2	922	27490	0.26%	0.034%
22	3.512	268	270	274	VV 2	879	12404	0.12%	0.015%
23	3.583	274	280	281	VV	715	14585	0.14%	0.018%
24	3.605	281	283	287	VV	613	10072	0.09%	0.012%
25	3.719	287	299	324	PV	125870	4204593	39.65%	5.128%
26	3.906	324	325	327	VV 2	1007	11438	0.11%	0.014%
27	3.934	327	329	335	VV 2	756	17870	0.17%	0.022%
28	4.013	335	340	353	VV 2	819	41572	0.39%	0.051%
29	4.163	353	361	363	VV 4	1019	26380	0.25%	0.032%
30	4.199	363	366	369	VV	734	11556	0.11%	0.014%
31	4.235	369	371	373	VV 2	618	7219	0.07%	0.009%
32	4.307	373	381	383	VV 2	741	18082	0.17%	0.022%
33	4.350	383	387	389	VV 2	490	6286	0.06%	0.008%
34	4.385	389	392	394	VV 2	773	10553	0.10%	0.013%
35	4.428	394	398	403	VV 2	665	14877	0.14%	0.018%
36	4.486	403	406	409	VV 2	938	15017	0.14%	0.018%
37	4.572	409	418	419	VV	577	17339	0.16%	0.021%
38	4.593	419	421	423	VV 2	713	8004	0.08%	0.010%
39	4.629	423	426	428	VV 2	913	10879	0.10%	0.013%
40	4.665	428	431	436	VV 2	1649	42213	0.40%	0.051%
41	4.715	436	438	443	VV	993	16832	0.16%	0.021%
42	4.779	443	447	449	VV	851	12394	0.12%	0.015%
43	4.801	449	450	454	VV	742	12190	0.11%	0.015%
44	4.844	454	456	461	VV 2	723	14634	0.14%	0.018%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

45	4.930	461	468	470	VV	2	686	15345	0.14%	0.019%
46	4.958	470	472	477	PV	2	520	8132	0.08%	0.010%
47	5.009	477	479	482	VV	2	588	5735	0.05%	0.007%
48	5.080	482	489	493	VV	2	730	25214	0.24%	0.031%
49	5.138	493	497	499	VV	2	941	14025	0.13%	0.017%
50	5.166	499	501	502	VV		564	4807	0.05%	0.006%
51	5.188	502	504	506	VV		689	9397	0.09%	0.011%
52	5.224	506	509	516	VV		904	17558	0.17%	0.021%
53	5.281	516	517	521	VV		468	6011	0.06%	0.007%
54	5.374	521	530	532	VV	2	778	22445	0.21%	0.027%
55	5.403	532	534	536	VV	2	521	6130	0.06%	0.007%
56	5.424	536	537	539	VV		533	5377	0.05%	0.007%
57	5.453	539	541	543	VV	2	478	5776	0.05%	0.007%
58	5.489	543	546	549	VV	2	685	10050	0.09%	0.012%
59	5.524	549	551	553	VV	2	780	7752	0.07%	0.009%
60	5.560	553	556	559	VV	2	716	11617	0.11%	0.014%
61	5.596	559	561	565	VV		651	9300	0.09%	0.011%
62	5.639	565	567	569	VV	2	309	4455	0.04%	0.005%
63	5.668	569	571	573	VV		511	4991	0.05%	0.006%
64	5.703	573	576	580	VV	2	703	14213	0.13%	0.017%
65	5.768	580	585	587	VV	2	1857	30310	0.29%	0.037%
66	5.797	587	589	594	VV		1308	24856	0.23%	0.030%
67	5.847	594	596	598	VV		738	6626	0.06%	0.008%
68	5.883	598	601	605	VV	2	876	12620	0.12%	0.015%
69	5.926	605	607	609	VV		384	5096	0.05%	0.006%
70	5.976	609	614	617	VV	2	496	10817	0.10%	0.013%
71	6.011	617	619	623	VV	2	599	8286	0.08%	0.010%
72	6.047	623	624	628	VV	2	373	4411	0.04%	0.005%
73	6.105	628	632	633	VV		392	4581	0.04%	0.006%
74	6.119	633	634	636	VV		478	4747	0.04%	0.006%
75	6.169	636	641	642	VV	2	600	7489	0.07%	0.009%
76	6.191	642	644	645	VV	2	362	3322	0.03%	0.004%
77	6.212	645	647	650	VV	2	494	6071	0.06%	0.007%
78	6.248	650	652	654	VV	2	390	4126	0.04%	0.005%
79	6.269	654	655	660	VV		563	9281	0.09%	0.011%
80	6.334	660	664	666	VV	2	746	11975	0.11%	0.015%
81	6.362	666	668	674	VV	2	760	11659	0.11%	0.014%
82	6.441	674	679	683	VV	2	570	11555	0.11%	0.014%
83	6.491	683	686	688	VV	2	595	9451	0.09%	0.012%
84	6.513	688	689	691	VV		419	4983	0.05%	0.006%
85	6.577	691	698	702	VV	2	633	18462	0.17%	0.023%
86	6.613	702	703	713	VV	2	509	17399	0.16%	0.021%
87	6.721	713	718	720	VV	2	595	11701	0.11%	0.014%
88	6.749	720	722	724	VV	2	750	9251	0.09%	0.011%
89	6.778	724	726	728	VV	2	589	5589	0.05%	0.007%
90	6.799	728	729	731	VV		447	4005	0.04%	0.005%
91	6.857	731	737	742	VV	2	556	15052	0.14%	0.018%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

92	6.907	742	744	748	VV 2	658	10324	0.10%	0.013%
93	7.000	748	757	759	VV 2	640	19186	0.18%	0.023%
94	7.029	759	761	764	VV	605	7227	0.07%	0.009%
95	7.064	764	766	767	VV 2	602	5530	0.05%	0.007%
96	7.158	767	779	797	VV	159603	5380198	50.73%	6.562%
97	7.308	797	800	804	VV 2	1825	37034	0.35%	0.045%
98	7.408	804	814	823	VV 4	4090	134142	1.26%	0.164%
99	7.494	823	826	830	VV	642	11409	0.11%	0.014%
100	7.602	830	841	870	VV	91623	3035827	28.63%	3.703%
101	7.824	870	872	874	VV	887	12030	0.11%	0.015%
102	7.874	874	879	883	VV 3	934	20431	0.19%	0.025%
103	7.974	883	893	917	VV	286481	8783718	82.83%	10.713%
104	8.225	917	928	949	VV 2	90331	2843124	26.81%	3.468%
105	8.404	949	953	958	VV 3	879	19347	0.18%	0.024%
106	8.447	958	959	963	VV 2	501	6473	0.06%	0.008%
107	8.490	963	965	969	VV	808	11889	0.11%	0.015%
108	8.540	969	972	975	VV 2	600	11022	0.10%	0.013%
109	8.583	975	978	979	VV 2	612	7874	0.07%	0.010%
110	8.604	979	981	991	VV 2	831	17831	0.17%	0.022%
111	8.690	991	993	1002	VV 2	659	15697	0.15%	0.019%
112	8.784	1002	1006	1008	VV 2	685	12226	0.12%	0.015%
113	8.912	1008	1024	1028	VV 4	5114	146246	1.38%	0.178%
114	8.998	1028	1036	1047	VV 2	106293	3040541	28.67%	3.708%
115	9.084	1047	1048	1058	VV	2422	48878	0.46%	0.060%
116	9.170	1058	1060	1063	VV	1000	12565	0.12%	0.015%
117	9.199	1063	1064	1066	VV	522	5912	0.06%	0.007%
118	9.235	1066	1069	1081	VV 2	645	18640	0.18%	0.023%
119	9.335	1081	1083	1100	VV 2	570	32235	0.30%	0.039%
120	9.471	1100	1102	1104	VV	602	6492	0.06%	0.008%
121	9.586	1104	1118	1140	VV 3	178012	5636994	53.16%	6.875%
122	9.758	1140	1142	1147	VV 2	935	21961	0.21%	0.027%
123	9.808	1147	1149	1154	VV 2	1013	13991	0.13%	0.017%
124	9.851	1154	1155	1160	VV	609	12634	0.12%	0.015%
125	9.901	1160	1162	1164	VV	405	4372	0.04%	0.005%
126	9.922	1164	1165	1172	VV	338	7421	0.07%	0.009%
127	9.987	1172	1174	1175	VV 2	420	3730	0.04%	0.005%
128	10.008	1175	1177	1178	VV	481	5007	0.05%	0.006%
129	10.030	1178	1180	1184	VV 2	508	8318	0.08%	0.010%
130	10.073	1184	1186	1192	VV	595	14670	0.14%	0.018%
131	10.130	1192	1194	1198	VV 2	944	18436	0.17%	0.022%
132	10.166	1198	1199	1203	VV	816	11775	0.11%	0.014%
133	10.238	1203	1209	1211	VV	692	12303	0.12%	0.015%
134	10.266	1211	1213	1216	VV	667	8900	0.08%	0.011%
135	10.302	1216	1218	1220	VV	455	5826	0.05%	0.007%
136	10.324	1220	1221	1227	VV 2	403	10320	0.10%	0.013%
137	10.374	1227	1228	1230	VV	342	3441	0.03%	0.004%
138	10.402	1230	1232	1236	VV	687	9885	0.09%	0.012%
139	10.488	1236	1244	1245	VV 2	767	14997	0.14%	0.018%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

140	10.624	1245	1263	1271	VV	5	7427	246007	2.32%	0.300%
141	10.775	1271	1284	1305	VV		239909	6518345	61.47%	7.950%
142	10.940	1305	1307	1311	VV	2	851	16805	0.16%	0.020%
143	10.983	1311	1313	1315	VV	2	727	10693	0.10%	0.013%
144	11.011	1315	1317	1319	VV	2	769	10321	0.10%	0.013%
145	11.097	1319	1329	1353	VV		390769	10604752	100.00%	12.934%
146	11.276	1353	1354	1357	VV		911	13508	0.13%	0.016%
147	11.326	1357	1361	1373	VV	4	2947	90076	0.85%	0.110%
148	11.427	1373	1375	1378	VV		743	11485	0.11%	0.014%
149	11.470	1378	1381	1383	VV	2	900	12894	0.12%	0.016%
150	11.498	1383	1385	1387	VV	2	823	8592	0.08%	0.010%
151	11.527	1387	1389	1391	VV		671	7613	0.07%	0.009%
152	11.577	1391	1396	1406	VV	2	965	32555	0.31%	0.040%
153	11.670	1406	1409	1411	VV	3	996	11498	0.11%	0.014%
154	11.706	1411	1414	1419	VV		744	15390	0.15%	0.019%
155	11.756	1419	1421	1423	VV	2	871	10134	0.10%	0.012%
156	11.835	1423	1432	1450	VV		129696	3514783	33.14%	4.287%
157	11.978	1450	1452	1453	VV		677	5640	0.05%	0.007%
158	12.014	1453	1457	1464	VV	2	652	19863	0.19%	0.024%
159	12.071	1464	1465	1469	VV	2	568	10727	0.10%	0.013%
160	12.208	1469	1484	1486	VV	3	1116	53572	0.51%	0.065%
161	12.236	1486	1488	1498	VV	2	1377	46902	0.44%	0.057%
162	12.329	1498	1501	1503	VV	2	557	8677	0.08%	0.011%
163	12.394	1503	1510	1512	VV	2	1163	24535	0.23%	0.030%
164	12.422	1512	1514	1522	VV		885	23437	0.22%	0.029%
165	12.494	1522	1524	1525	PV	2	688	6059	0.06%	0.007%
166	12.515	1525	1527	1533	VV		821	18926	0.18%	0.023%
167	12.573	1533	1535	1537	VV	2	594	8891	0.08%	0.011%
168	12.601	1537	1539	1545	VV	2	725	21301	0.20%	0.026%
169	12.659	1545	1547	1550	VV	2	794	9929	0.09%	0.012%
170	12.702	1550	1553	1557	VV	2	650	13039	0.12%	0.016%
171	12.773	1557	1563	1565	VV		835	15691	0.15%	0.019%
172	12.802	1565	1567	1571	VV		505	8930	0.08%	0.011%
173	12.852	1571	1574	1579	VV	2	714	13060	0.12%	0.016%
174	12.902	1579	1581	1585	PV	2	647	9502	0.09%	0.012%
175	12.945	1585	1587	1590	VV	2	404	8428	0.08%	0.010%
176	12.981	1590	1592	1598	VV	2	804	16085	0.15%	0.020%
177	13.038	1598	1600	1605	VV	2	626	14239	0.13%	0.017%
178	13.146	1605	1615	1643	VV	2	145287	5684664	53.60%	6.933%
179	13.361	1643	1645	1647	VV		870	12013	0.11%	0.015%
180	13.382	1647	1648	1653	VV		1173	22894	0.22%	0.028%
181	13.432	1653	1655	1661	VV	2	706	20917	0.20%	0.026%
182	13.483	1661	1662	1665	VV		748	9367	0.09%	0.011%
183	13.568	1665	1674	1689	VV		144074	3932784	37.09%	4.797%
184	13.697	1689	1692	1694	VV	3	698	12768	0.12%	0.016%
185	13.726	1694	1696	1699	VV	2	467	7988	0.08%	0.010%
186	13.762	1699	1701	1703	VV	2	690	8899	0.08%	0.011%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

187	13.791	1703	1705	1707	VV		522	5019	0.05%	0.006%
188	13.819	1707	1709	1710	VV		690	8131	0.08%	0.010%
189	13.841	1710	1712	1713	VV	2	605	6336	0.06%	0.008%
190	13.862	1713	1715	1718	VV	2	1019	14300	0.13%	0.017%
191	13.898	1718	1720	1722	VV		829	10119	0.10%	0.012%
192	13.919	1722	1723	1730	VV		1068	22646	0.21%	0.028%
193	13.998	1730	1734	1736	VV	2	753	12360	0.12%	0.015%
194	14.027	1736	1738	1744	VV	2	783	19218	0.18%	0.023%
195	14.106	1744	1749	1762	VV	2	585	31894	0.30%	0.039%
196	14.249	1762	1769	1775	VV	2	801	30058	0.28%	0.037%
197	14.306	1775	1777	1781	VV		738	14505	0.14%	0.018%
198	14.364	1781	1785	1789	VV	2	521	15132	0.14%	0.018%
199	14.414	1789	1792	1795	VV		709	13543	0.13%	0.017%
200	14.450	1795	1797	1799	VV		664	7552	0.07%	0.009%
201	14.500	1799	1804	1805	VV	2	633	12147	0.11%	0.015%
202	14.535	1805	1809	1811	VV	2	996	16251	0.15%	0.020%
203	14.564	1811	1813	1815	VV	2	592	6985	0.07%	0.009%
204	14.614	1815	1820	1824	VV	2	494	16230	0.15%	0.020%
205	14.707	1824	1833	1834	VV	2	887	25305	0.24%	0.031%
206	14.750	1834	1839	1842	VV	2	771	20029	0.19%	0.024%
207	14.786	1842	1844	1849	VV	2	480	10338	0.10%	0.013%
208	14.836	1849	1851	1853	VV	2	821	10679	0.10%	0.013%
209	14.865	1853	1855	1858	VV		730	9913	0.09%	0.012%
210	14.901	1858	1860	1865	VV	2	719	14824	0.14%	0.018%
211	14.980	1865	1871	1874	VV		710	18665	0.18%	0.023%
212	15.015	1874	1876	1881	VV		822	13985	0.13%	0.017%
213	15.073	1881	1884	1887	VV		460	12158	0.11%	0.015%
214	15.109	1887	1889	1893	VV	2	680	11247	0.11%	0.014%
215	15.152	1893	1895	1896	VV		407	4042	0.04%	0.005%
216	15.187	1896	1900	1904	VV	2	689	14864	0.14%	0.018%
217	15.223	1904	1905	1909	VV		466	8062	0.08%	0.010%
218	15.316	1909	1918	1920	VV	2	871	24020	0.23%	0.029%
219	15.359	1920	1924	1928	VV	2	990	22945	0.22%	0.028%
220	15.402	1928	1930	1935	VV		483	12609	0.12%	0.015%
221	15.452	1935	1937	1939	VV	2	724	9263	0.09%	0.011%
222	15.495	1939	1943	1952	VV	2	709	21301	0.20%	0.026%
223	15.574	1952	1954	1958	VV		968	16178	0.15%	0.020%
224	15.639	1958	1963	1967	VV	2	855	23204	0.22%	0.028%
225	15.689	1967	1970	1973	VV	2	602	10045	0.09%	0.012%
226	15.732	1973	1976	1978	VV		563	8826	0.08%	0.011%
227	15.768	1978	1981	1983	VV		784	10160	0.10%	0.012%
228	15.796	1983	1985	1989	VV	2	649	10756	0.10%	0.013%
229	15.839	1989	1991	1992	VV		656	7616	0.07%	0.009%
230	15.861	1992	1994	1996	VV	2	597	7544	0.07%	0.009%
231	15.889	1996	1998	2002	VV	2	825	13904	0.13%	0.017%
232	15.932	2002	2004	2006	VV		747	9387	0.09%	0.011%
233	15.961	2006	2008	2010	VV		756	9625	0.09%	0.012%
234	16.040	2010	2019	2029	VV	3	82315	2254153	21.26%	2.[illegible]%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

235	16.126	2029	2031	2034	VV 2	848	12807	0.12%	0.016%
236	16.154	2034	2035	2038	VV	656	9692	0.09%	0.012%
237	16.197	2038	2041	2044	VV	831	12273	0.12%	0.015%
238	16.233	2044	2046	2053	VV 2	713	19529	0.18%	0.024%
239	16.298	2053	2055	2061	VV 2	728	19470	0.18%	0.024%
240	16.355	2061	2063	2065	VV	751	8256	0.08%	0.010%
241	16.391	2065	2068	2073	VV 2	604	16443	0.16%	0.020%
242	16.462	2073	2078	2080	VV	548	11695	0.11%	0.014%
243	16.512	2080	2085	2087	VV 2	412	8100	0.08%	0.010%
244	16.548	2087	2090	2094	PV	629	12902	0.12%	0.016%
245	16.584	2094	2095	2099	VV	527	8719	0.08%	0.011%
246	16.634	2099	2102	2108	VV 2	818	20445	0.19%	0.025%
247	16.692	2108	2110	2115	VV 2	936	19324	0.18%	0.024%
248	16.749	2115	2118	2120	VV 2	671	9874	0.09%	0.012%
249	16.770	2120	2121	2125	VV	683	10801	0.10%	0.013%
250	16.813	2125	2127	2129	VV 2	426	5597	0.05%	0.007%
251	16.863	2129	2134	2145	VV 2	637	33062	0.31%	0.040%
252	16.949	2145	2146	2148	VV	689	6420	0.06%	0.008%
253	17.021	2148	2156	2162	VV 2	738	24220	0.23%	0.030%
254	17.078	2162	2164	2168	VV 2	993	16548	0.16%	0.020%
255	17.157	2168	2175	2177	VV 2	573	18481	0.17%	0.023%
256	17.200	2177	2181	2183	VV 2	740	12485	0.12%	0.015%
257	17.229	2183	2185	2189	VV 2	620	10604	0.10%	0.013%
258	17.279	2189	2192	2197	VV 2	683	16190	0.15%	0.020%
259	17.351	2197	2202	2204	VV	727	16501	0.16%	0.020%
260	17.379	2204	2206	2207	VV	609	6691	0.06%	0.008%
261	17.401	2207	2209	2212	VV	440	7151	0.07%	0.009%
262	17.437	2212	2214	2216	VV	629	7613	0.07%	0.009%
263	17.465	2216	2218	2222	VV	736	12375	0.12%	0.015%
264	17.544	2222	2229	2233	VV 2	626	20961	0.20%	0.026%
265	17.651	2233	2244	2258	VV	90551	2370045	22.35%	2.891%
266	17.759	2258	2259	2267	VV	649	17466	0.16%	0.021%
267	17.830	2267	2269	2273	VV 2	383	6993	0.07%	0.009%
268	17.873	2273	2275	2278	VV 2	772	10542	0.10%	0.013%
269	17.909	2278	2280	2282	VV	614	7747	0.07%	0.009%
270	17.945	2282	2285	2290	VV 2	653	17140	0.16%	0.021%
271	17.988	2290	2291	2295	VV 2	769	11522	0.11%	0.014%
272	18.053	2295	2300	2307	VV 2	613	22535	0.21%	0.027%
273	18.117	2307	2309	2312	VV 2	747	11833	0.11%	0.014%
274	18.160	2312	2315	2319	VV	857	16424	0.15%	0.020%
275	18.203	2319	2321	2324	VV 2	718	10000	0.09%	0.012%
276	18.246	2324	2327	2335	VV 2	691	21870	0.21%	0.027%
277	18.325	2335	2338	2340	VV 2	628	10036	0.09%	0.012%
278	18.418	2340	2351	2363	VV	240657	6168269	58.17%	7.523%
279	18.518	2363	2365	2368	VV 2	977	15709	0.15%	0.019%
280	18.554	2368	2370	2372	VV 2	803	10772	0.10%	0.013%
281	18.590	2372	2375	2377	VV 2	797	8009	0.08%	0.010%

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

282	18.611	2377	2378	2380	VV	536	6078	0.06%	0.007%
283	18.647	2380	2383	2385	VV	713	10520	0.10%	0.013%
284	18.669	2385	2386	2388	VV	576	6366	0.06%	0.008%
285	18.697	2388	2390	2395	VV	726	15040	0.14%	0.018%
286	18.747	2395	2397	2400	VV 2	615	11824	0.11%	0.014%
287	18.783	2400	2402	2404	VV	902	10096	0.10%	0.012%
288	18.819	2404	2407	2408	VV	556	7507	0.07%	0.009%
289	18.840	2408	2410	2414	VV 2	779	14588	0.14%	0.018%
290	18.876	2414	2415	2420	VV	741	16129	0.15%	0.020%
291	18.926	2420	2422	2424	VV 2	629	7797	0.07%	0.010%
292	18.955	2424	2426	2427	VV 2	746	8136	0.08%	0.010%
293	18.977	2427	2429	2430	VV 2	533	5539	0.05%	0.007%
294	19.012	2430	2434	2445	VV 2	918	30478	0.29%	0.037%
295	19.134	2449	2451	2452	VV	494	4689	0.04%	0.006%
296	19.191	2452	2459	2462	VV	762	19843	0.19%	0.024%
297	19.220	2462	2463	2468	VV 2	446	11704	0.11%	0.014%
298	19.277	2468	2471	2474	VV 2	636	11101	0.10%	0.014%
299	19.320	2474	2477	2481	VV 2	716	15575	0.15%	0.019%
300	19.371	2481	2484	2487	VV 2	740	14683	0.14%	0.018%
301	19.406	2487	2489	2493	VV 2	497	13637	0.13%	0.017%
302	19.449	2493	2495	2502	VV 2	810	16060	0.15%	0.020%
303	19.528	2502	2506	2512	VV 2	756	24501	0.23%	0.030%
304	19.607	2512	2517	2521	VV 2	768	18662	0.18%	0.023%
305	19.657	2521	2524	2526	VV	590	9473	0.09%	0.012%
306	19.686	2526	2528	2532	VV 2	601	11853	0.11%	0.014%
307	19.736	2532	2535	2539	VV 2	685	13607	0.13%	0.017%
308	19.793	2539	2543	2545	VV	732	12880	0.12%	0.016%
309	19.815	2545	2546	2548	VV	781	7876	0.07%	0.010%
310	19.836	2548	2549	2556	VV 2	747	18305	0.17%	0.022%
311	19.944	2556	2564	2567	VV 2	649	21401	0.20%	0.026%
312	19.972	2567	2568	2571	VV	592	6855	0.06%	0.008%
313	20.008	2571	2573	2576	VV 2	782	9990	0.09%	0.012%
314	20.044	2576	2578	2582	VV	587	11745	0.11%	0.014%
315	20.101	2582	2586	2589	VV 2	668	14525	0.14%	0.018%
316	20.130	2589	2590	2593	VV 2	644	8262	0.08%	0.010%
317	20.158	2593	2594	2607	VV 2	589	27500	0.26%	0.034%
318	20.287	2607	2612	2617	VV 2	614	18852	0.18%	0.023%
319	20.359	2617	2622	2624	VV 2	604	14806	0.14%	0.018%
320	20.409	2624	2629	2630	VV 2	804	12442	0.12%	0.015%
321	20.431	2630	2632	2636	VV	616	10157	0.10%	0.012%
322	20.488	2636	2640	2645	VV 2	583	14538	0.14%	0.018%
323	20.538	2645	2647	2651	VV	469	8643	0.08%	0.011%
324	20.588	2651	2654	2656	VV	439	6889	0.06%	0.008%
325	20.624	2656	2659	2662	VV 2	571	11914	0.11%	0.015%
326	20.660	2662	2664	2666	VV 2	623	8863	0.08%	0.011%
327	20.703	2666	2670	2672	VV 2	585	10132	0.10%	0.012%
328	20.746	2672	2676	2678	VV 2	649	10870	0.10%	0.013%
329	20.767	2678	2679	2683	VV 2	538	8383	0.08%	0.010%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

330	20.846	2683	2690	2699	VV 2	540	23845	0.22%	0.029%
331	20.946	2699	2704	2712	VV 2	645	22884	0.22%	0.028%
332	21.018	2712	2714	2717	VV 2	740	10809	0.10%	0.013%
333	21.054	2717	2719	2725	VV 2	688	18536	0.17%	0.023%
334	21.111	2725	2727	2730	VV 2	470	8098	0.08%	0.010%
335	21.161	2730	2734	2738	VV 2	530	11432	0.11%	0.014%
336	21.233	2738	2744	2750	VV 2	698	23602	0.22%	0.029%
337	21.290	2750	2752	2754	VV	700	8640	0.08%	0.011%
338	21.326	2754	2757	2768	VV 2	681	23626	0.22%	0.029%
339	21.412	2768	2769	2779	VV 2	454	15214	0.14%	0.019%
340	21.519	2779	2784	2787	VV 2	676	15724	0.15%	0.019%
341	21.555	2787	2789	2795	VV 2	530	11717	0.11%	0.014%
342	21.613	2795	2797	2803	VV 2	443	11786	0.11%	0.014%
343	21.670	2803	2805	2814	VV	569	22044	0.21%	0.027%
344	21.749	2814	2816	2818	VV	573	5717	0.05%	0.007%
345	21.799	2818	2823	2826	VV 2	653	15994	0.15%	0.020%
346	21.849	2826	2830	2832	VV 2	722	12071	0.11%	0.015%
347	21.878	2832	2834	2845	VV 2	690	27209	0.26%	0.033%
348	21.971	2845	2847	2849	VV	833	9116	0.09%	0.011%
349	21.992	2849	2850	2852	VV	644	6499	0.06%	0.008%
350	22.021	2852	2854	2855	VV	414	4769	0.04%	0.006%
351	22.042	2855	2857	2858	VV	434	3545	0.03%	0.004%
352	22.071	2858	2861	2863	VV 2	396	7050	0.07%	0.009%
353	22.107	2863	2866	2870	VV	578	10375	0.10%	0.013%
354	22.150	2870	2872	2877	VV	864	14236	0.13%	0.017%
355	22.193	2877	2878	2880	VV 2	544	4744	0.04%	0.006%
356	22.236	2880	2884	2886	PV 2	815	12902	0.12%	0.016%
357	22.257	2886	2887	2890	VV	510	7741	0.07%	0.009%
358	22.293	2890	2892	2895	VV 2	530	9522	0.09%	0.012%
359	22.401	2895	2907	2909	VV	585	21690	0.20%	0.026%
360	22.422	2909	2910	2915	VV	545	8828	0.08%	0.011%
361	22.565	2915	2930	2952	VV 2	630	55210	0.52%	0.067%
362	22.744	2952	2955	2961	VV 2	616	16570	0.16%	0.020%
363	22.845	2961	2969	2976	VV 2	520	23741	0.22%	0.029%
364	22.902	2976	2977	2981	VV	579	5947	0.06%	0.007%
365	22.945	2981	2983	2985	VV	348	2609	0.02%	0.003%

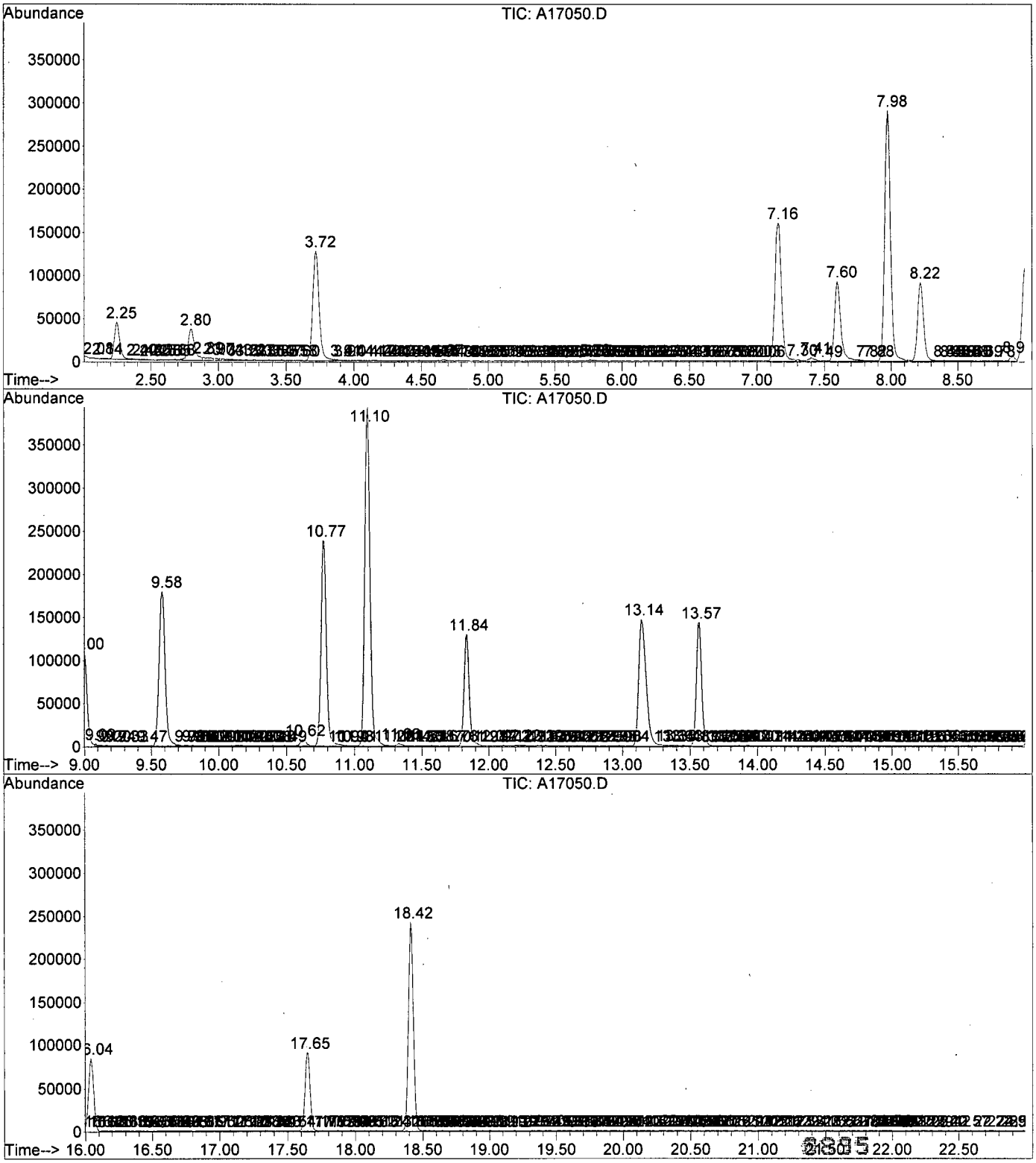
Sum of corrected areas: 81991338

0894

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

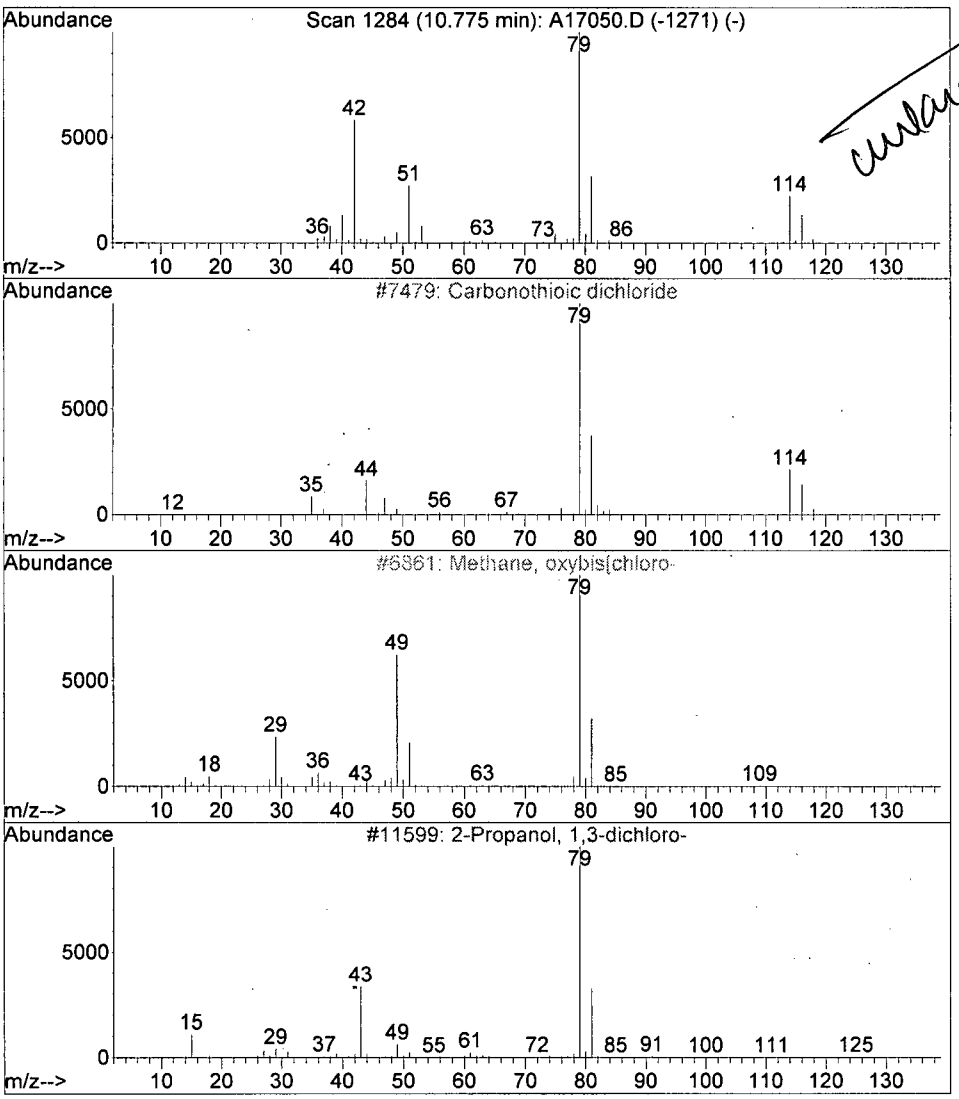
11/28/08

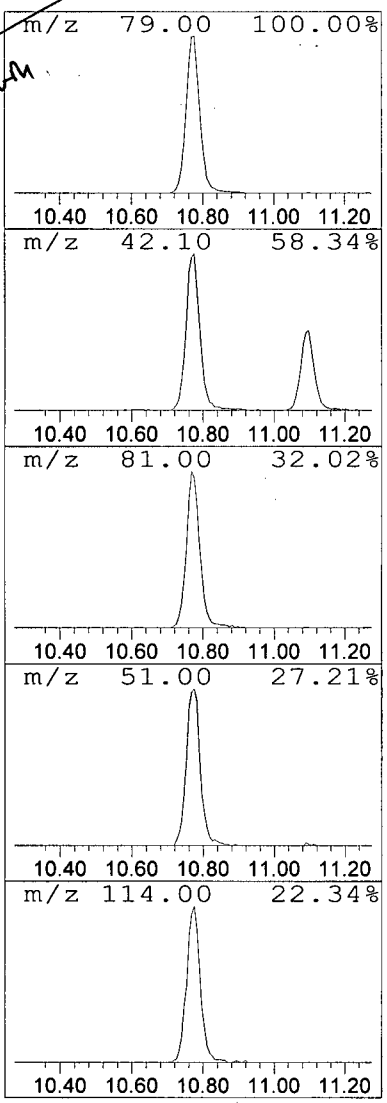
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	10.72 ug/L	6518340	1,4-Difluorobenzene	9.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





0896

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDCHEM\1\DATA\
Data File : A17050.D
Acq On : 11/27/08 10:50 Operator: SB
Sample : VIBLK32 Inst : A-5973
Misc : VIBLK32 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Carbonothioic dic...	10.77	10.7	ug/L	6518340	1	9.00	3040540	5.0

0897

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE8MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05MS

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17052

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	3.3	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	3.9	
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE8MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05MS

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17052

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	3.6	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	4.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.30	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.1	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17052.D
Acq On : 11/27/08 12:01 Operator: SB
Sample : F2XE8MS Inst : A-5973
Misc : S-2066.05MS 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 13:30:27 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

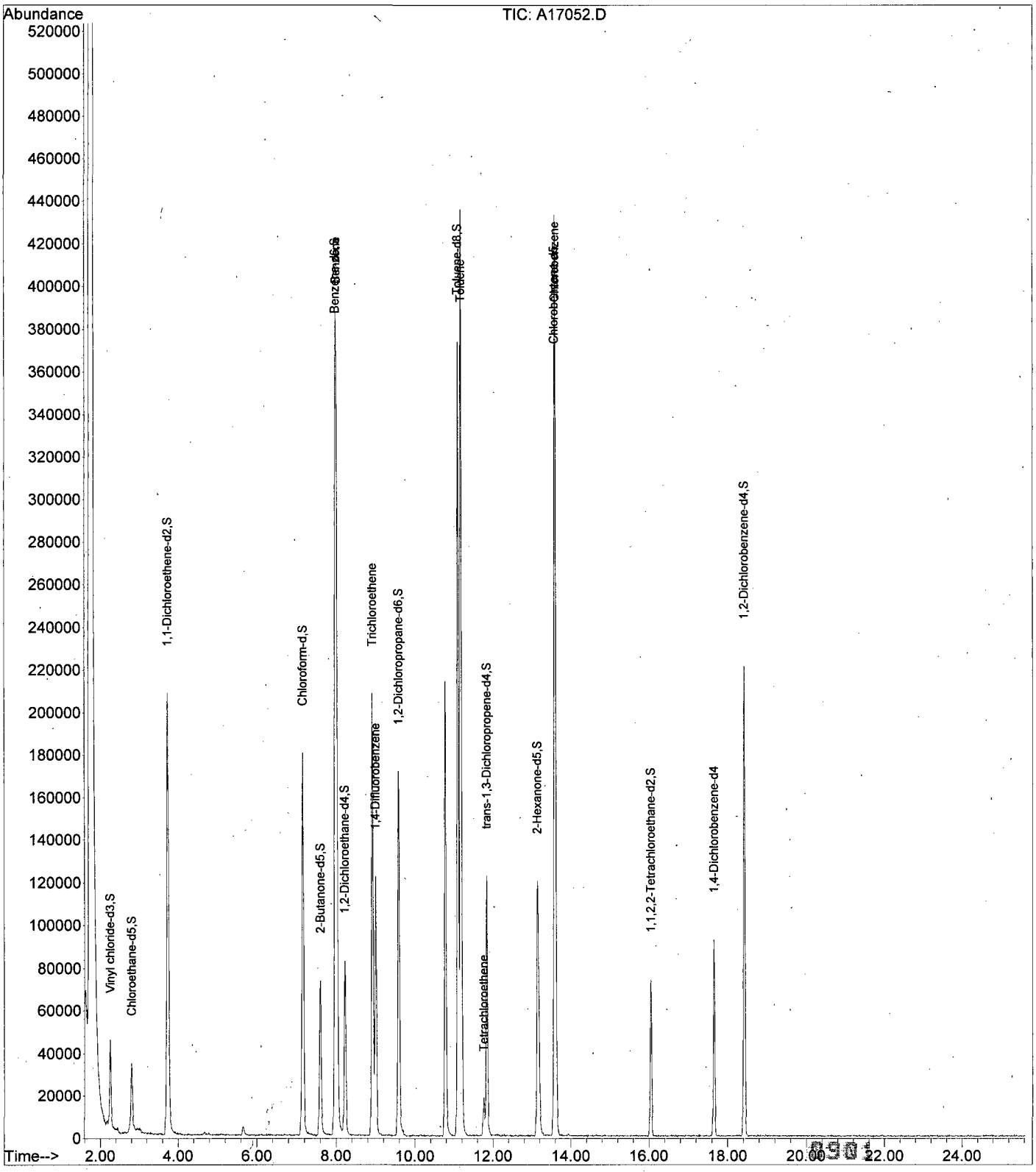
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1380530	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1251482	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.65	152	388898	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	723821	4.02	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 80.40%			
7) Chloroethane-d5	2.80	69	476447	4.48	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 89.60%			
10) 1,1-Dichloroethene-d2	3.73	63	1739740	3.93	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 78.60%			
21) 2-Butanone-d5	7.60	46	1472215	45.52	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 91.04%			
24) Chloroform-d	7.16	84	2161766	4.43	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 88.60%			
26) 1,2-Dichloroethane-d4	8.22	65	900074	4.61	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 92.20%			
32) Benzene-d6	7.98	84	3743219	4.06	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 81.20%			
36) 1,2-Dichloropropane-d6	9.58	67	1101996	4.02	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 80.40%			
41) Toluene-d8	11.10	98	3738354	4.42	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 88.40%			
43) trans-1,3-Dichloropropene-	11.84	79	943320	3.95	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 79.00%			
47) 2-Hexanone-d5	13.14	63	680932	49.36	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 98.72%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	574614	4.41	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 88.20%			
63) 1,2-Dichlorobenzene-d4	18.42	152	906029	5.13	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 102.60%			
Target Compounds						Qvalue
11) 1,1-Dichloroethene	3.74	96	717804	3.34	ug/L #	30
33) Benzene	8.01	78	3902116	3.89	ug/L	100
34) Trichloroethene	8.91	95	965984	3.63	ug/L	89
42) Toluene	11.18	91	4743300	4.64	ug/L	99
46) Tetrachloroethene	11.76	164	61038	0.30	ug/L	95
51) Chlorobenzene	13.60	112	3111591	5.06	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0300

Data File: C:\MSDCHEM\1\DATA\A17052.D
Acq On : 11/27/08 12:01 Operator: SB
Sample : F2XE8MS Inst : A-5973
Misc : S-2066.05MS 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 28 13:30:27 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE8MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05MSD

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17053

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	3.3	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	4.1	
107-06-2	1,2-Dichloroethane	0.50	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
F2XE8MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 38051 Mod. Ref No.: _____ SDG No.: F2XE4

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-2066.05MSD

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A17053

Level: (TRACE/LOW/MED) TRACE Date Received: 11/21/2008

% Moisture: not dec. _____ Date Analyzed: 11/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	3.9	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	4.8	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.30	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	5.3	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\DATA\A17053.D
Acq On : 11/27/08 12:35 Operator: SB
Sample : F2XE8MSD Inst : A-5973
Misc : S-2066.05MSD 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 13:36:14 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration

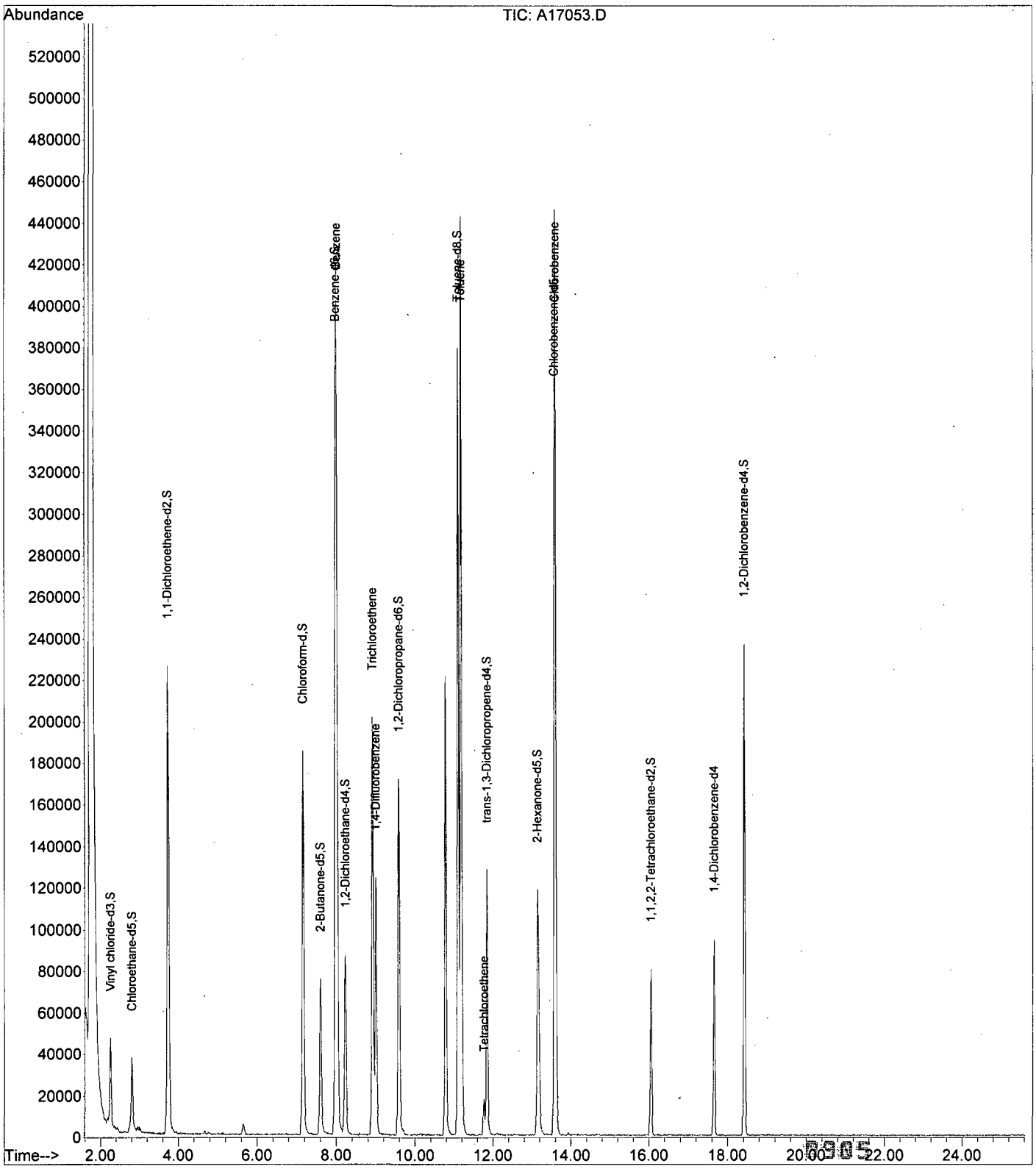
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.00	114	1411385	5.00	ug/L	0.00
28) Chlorobenzene-d5	13.57	117	1218974	5.00	ug/L	0.00
59) 1,4-Dichlorobenzene-d4	17.66	152	392919	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl chloride-d3	2.25	65	729877	3.97	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 79.40%			
7) Chloroethane-d5	2.80	69	486953	4.48	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 89.60%			
10) 1,1-Dichloroethene-d2	3.73	63	1750175	3.86	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 77.20%			
21) 2-Butanone-d5	7.60	46	1544570	46.71	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 93.42%			
24) Chloroform-d	7.16	84	2237335	4.48	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 89.60%			
26) 1,2-Dichloroethane-d4	8.23	65	947576	4.75	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 95.00%			
32) Benzene-d6	7.98	84	3797401	4.22	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 84.40%			
36) 1,2-Dichloropropane-d6	9.58	67	1128746	4.23	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 84.60%			
41) Toluene-d8	11.10	98	3737742	4.54	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 90.80%			
43) trans-1,3-Dichloropropene-	11.84	79	966873	4.15	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 83.00%			
47) 2-Hexanone-d5	13.15	63	681510	50.72	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 101.44%			
57) 1,1,2,2-Tetrachloroethane-	16.05	84	601325	4.74	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 94.80%			
63) 1,2-Dichlorobenzene-d4	18.42	152	963939	5.40	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 108.00%			
Target Compounds						Qvalue
11) 1,1-Dichloroethene	3.74	96	733202	3.34	ug/L #	30
33) Benzene	8.01	78	4000430	4.09	ug/L	100
34) Trichloroethene	8.91	95	997400	3.85	ug/L	91
42) Toluene	11.18	91	4771106	4.80	ug/L	99
46) Tetrachloroethene	11.76	164	58946	0.30	ug/L	97
51) Chlorobenzene	13.60	112	3194306	5.34	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

0984

Data File: C:\MSDCHEM\1\DATA\A17053.D
Acq On : 11/27/08 12:35 Operator: SB
Sample : F2XE8MSD Inst : A-5973
Misc : S-2066.05MSD 25ML
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 28 13:36:14 2008
Quant Method : C:\MSDCHEM\1\METHODS\CLPT16940.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Nov 28 11:44:31 2008
Response via : Initial Calibration



KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 132-0608

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: B-5973

MAINTENANCE: _____

TUNE FILE ID: B19514 DATE: 11/26/08
METHOD FILEs: CLPT19489 INETRNAL STD. ID: CLPV-499
ANALYTICAL METHOD: SOM11.2 SURROGATE ID: 500
STD. ID: ↓ 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
B19514	BFB91	BFB91	—		—	1µl		
15	VSTD00591	VSTD00591	25ML		1X			
16	VBLK91	VBLK91						
17	↓	↓						
18	F2XF3	S-2066.09			↓		<2	✓
19	↓ E6	↓ .03			2X		↓	
20	VIBLK12	VIBLK12			1X			✓
21	F2XF1	S-2066.07					<2	✓
22	↓ G0	↓ .15					↓	✓
23	VIBLK13	VIBLK13						
24	↓ 13	↓ 13						
25	↓ 13	↓ 13			↓			✓
28	F2XE8	S-2066.08			~~2X~~ 1X		<2	~~NOT USED~~
29	~~F2XF7~~ VIBLK16	~~S-2066.12~~ VIBLK16			2X		↓	~~NOT USED~~
30	~~F2XF0~~ VSTD00592	VSTD00592 ~~S-2066.06~~			↓			
31	~~↓ F7~~ ↓	~~↓ .12~~ ↓			2X			
32	~~VSTD00592~~	~~VSTD00592~~	↓	↓	1X	↓		

NOTES: _____

ANALYST: _____ REVIEWER: _____

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KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 137-0708

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: A-5973

MAINTENANCE: _____

TUNE FILE ID: A16937 DATE: 11/24/08
METHOD FILES: CLPT16940 INETRNAL STD. ID: CLPV-499
ANALYTICAL METHOD: SOM1-2 SURROGATE ID: 500
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
A16937	BFB16	BFB16	–		–	1µl		
38	VSTD00516	VSTD00516	25ML		1X			
39	↓	↓						
40	00116	00116						
41	0.516	0.516						
42	02016	02016						
43	01016	01016						
44	00116	00116						
45	0.516	0.516						

NOTES: _____

ANALYST: _____ REVIEWER: _____

0907 Page: 00147

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 132-0608

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: B-5973

MAINTENANCE: _____

TUNE FILE ID: B19488
METHOD FILES: CLPT 19489
ANALYTICAL METHOD: SOM1.2

DATE: 11/25/08
INETRNAL STD. ID: CLPV-499
SURROGATE ID: 500
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
B19488	BFB88	BFB88	—		—	1µl		
89	VSTD00588	VSTD00588	25ML		1X			
90	02088	02088						
91	01088	01088						
92	—	—						
93	0.588	0.588						
94	00188	00188						
95	0.588	0.588						
96	00588	00588						

NOTES: _____

ANALYST: _____ REVIEWER: _____

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 137-0708

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: A-5973

MAINTENANCE: _____

TUNE FILE ID: A17006
METHOD FILES: CLPT16940
ANALYTICAL METHOD: SOM01.2

DATE: 11/26/08
INETRNAL STD. ID: CLPV-499
SURROGATE ID: 500
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
A17006	BFB23	BFB23	—		—	1µl		
07	VSTD00523	VSTD00523	25ML		1X			
08	VBLK23	VBLK23						
09	↓	↓						
10	C0253	S-2059-01					<2	
11	VBLK30	VBLK30						
12	C0265	S-2059-03					<2	
13	268	-06			↓		↓	
14	257 DL	-02DL			5X			
15	C01W0	S-2065-04			1X			✓
16	W1	-05						✓
17	267	S-2059-05						
18	VHBLK01	S-2059-07						✓
19	↓	S-2065-06						✓
20	VSTD00524	VSTD00524						
21	F2X01	S-2066-16					<2	✓
22	XE9	-17			↓		↓	✓
23	XF8	-13			2X			✓
24	VSTD00524	VSTD00524	↓		1X	↓		

NOTES: _____

ANALYST: _____ REVIEWER: _____

0909

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 137-0708

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: A-5973

MAINTENANCE: _____

TUNE FILE ID: A17025 DATE: 11/26/08
METHOD FILEs: CLPT16940 INETRNAL STD. ID: CLDV-499
ANALYTICAL METHOD: SOM1.2 SURROGATE ID: 500
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
A17025	BFB25	BFB25	–		–	1µl		
26	VSTD00525	VSTD00525	25ML		1X			
27	VBLK25	VBLK25						
28	↓	↓						
29	VHBLK01	S-2029.11						
30	F2XE6DL	S-2066.03DL			40X		C2	✓
31	E7DL	.04DL			40X			✓
32	F2DL	.08DL			80X			
33	F3DL	.09DL			5X			✓
34	F6DL	.11DL			200X			
35	F7DL	.12DL			40X			✓
36	F9DL	.14DL			20X			✓
37	G0DL	.15DL			20X			✓
38	F2DL	.08DL			4X		↓	✓
39	VBLK51	VBLK51			1X			
40	VHBLK01	S-2038.21						
41	VSTD00526	VSTD00526	↓	↓	↓	↓		

NOTES: _____

ANALYST: _____ REVIEWER: _____

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 137-0708

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: A-5973

MAINTENANCE: _____

TUNE FILE ID: A17043 DATE: 11/27/08
METHOD FILEs: CLPT16940 INETRNAL STD. ID: CLIV-499
ANALYTICAL METHOD: SOM1.2 SURROGATE ID: 500
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
A17043	BFB27	BFB27	—		—	1µl		
44	VSTD00527	VSTD00527	25ML		1X			
45	VBLK27	VBLK27						
46	F2XF6	S-2066-11					<2	—
47	F2	-08						✓
48	VIBLK31	VIBLK31						✓
49	F2XF6	S-2066-07			2X		<2	✓
50	VIBLK32	VIBLK32			1X			✓
51	F2XF8DL	S-2066-13DL			80X		<2	✓
52	E8MS	-05MS			1X			✓
53	E8MSD	-05MSD						✓
54	C00W2	S-2066-04						
55	W3	-05						
56	W4	-06						
57	W5	-07						
58	W6	-08						
59	X0	-12						
60	E7	S-2066-04						✓
61	VSTD00528	VSTD00528						

NOTES: _____

ANALYST: _____ REVIEWER: _____

0911

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 137-0708

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: A-5973

MAINTENANCE: _____

TUNE FILE ID: A17079
METHOD FILEs: CLPT16940
ANALYTICAL METHOD: SOM1.2

DATE: 11/28/08
INETRNAL STD. ID: CLPV-499
SURROGATE ID: 500
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
A17079	BFB31	BFB31	—		—	1µl		
80	VSTD00531	VSTD00531	25ML		1X			
81	VBLK31	VBLK31						
82	↓	↓						
83	VHBLK01	S-2066.18						
84	C00X1	S-2064.13					L2	
85	X4	.16						
86	W7	.09					↓	
87	VHBLK01	S-2060.08						
88	F2XG6	S-2072-01					L2	
89	VBLK33	VBLK33						
90	F2XG8	S-2072-02					L2	
91	VBLK34	VBLK34			↓			
92	C00T9DL	S-2064.01DL			200X		L2	
93	X2	.14			20X		↓	
94	VSTD00532	VSTD00532	↓		1X	↓		

NOTES: _____

ANALYST: _____

REVIEWER: _____

KAP Technologies, Inc.
9391 Grogans Mill Rd., Suite A2
The Woodlands, TX 77380

RCN: 132-0608

INSTRUMENT RUN LOG – GC/MS PURGEABLES
INSTRUMENT ID: B-5973

MAINTENANCE: _____

TUNE FILE ID: B19497 DATE: 11/25/08
METHOD FILES: CLPT19489 INETRNAL STD. ID: CLPV-499
ANALYTICAL METHOD: SOM1.2 SURROGATE ID: 900
STD. ID: 501

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	VIAL NO.	DIL	INJ. VOL	pH	STD. ID & COMMENTS
B19497	BFB89	BFB89	–		–	1µl		
98	VSTD00589	VSTD00589	25ML		1X			
99	VBLK89	VBLK89						
500	F2XE24	S-2066-01					<2	
01	E5	.02						
02	E7	.04						
03	E8	.05						
04	F0	.06						
05	F3	.09						
06	F4	.10						
07	F9	.14						
08	G0	.15						
09	G1	.16						
10	E9	.17						
11	F2DL	.08DL			20X			
12	VSTD00590	VSTD00590			1X			
13								

NOTES: _____

ANALYST: _____ REVIEWER: _____

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd. Suite A2
The Woodlands, TX 77380

RCN: 110-0108

ORGANICS STANDARD PREP LOGBOOK

ANALYST: SB

DILUTION SOLVENT/ Lot No.: P1003334

PREP DATE: 11/13/08

EXPIRATION DATE: 12/13/08

Std. Name	Std. ID	LAB ID (Receipt)	Conc. (ug/mL)	Vol. Added (uL)	Final Conc. (ug/mL	Final Vol. (uL)
E-Std Trace	CLPV-499	002-0502	2500	16	40	1000
Surr CLP	CLPV-500	002-0594	2000	20	↓	↓
↓ Mix	↓	↓ 0595	↓	↓	↓	↓
↓ Mix	↓	CLPV-312	50,000	8	400	↓
↓ Mix	↓	↓ -313	↓	↓	↓	↓
VOA STD	CLPV-501	002-0191	2000	20	40	↓
↓ Mix	↓	↓ 0192	↓	↓	↓	↓
↓ Mix	↓	↓ 0587	5000	80	400	↓

PROBLEMS ENCOUNTERED/SPECIAL TECHNIQUES UTILIZED _____

REVIEWER: W

KAP TECHNOLOGIES, INC.

9391 Grogans Mill Rd. Suite A2,
The Woodlands, TX 77380

RCN: 122-0408

SAMPLE CUSTODY LOGBOOK
COOLER - E

Sample Custodian Checkin: Episode: S-2066

SAMPLE ID	CONTAINER TYPE	DATE/ TIME SIGNED IN	SIGNED IN BY	FRACTION	NO. OF CONTAINERS	DATE DISPOSED	DISPOSED BY
.01-.04 .06-.17	40ml Vial	11/21/08 11:50	NLH	TVOA	3		
.05	↓	↓	↓	↓	5		
.18	↓	↓	↓	↓	3		

Analyst Checkout/Checkin:

SAMPLE ID	CONTAINER TYPE	No. OF CONTAINERS	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
01,02,04-06, 09,10	40ml Vial	1		11/25/08	TVOA	—	—	Empty
14-17,08	↓	1		11/25/08	↓	—	—	↓
09,03,07,15,16 12		1		11/26/08		—	—	
16,17,13		1		11/26/08		—	—	
03,04,08,09, 11,12,14,15		1		11/26/08		—	—	
08		1		11/26/08		—	—	
11,08,03,13		1		11/27/08		—	—	
05		2		11/27/08		—	—	
04		1		11/27/08		—	—	
.18	↓	1		11/28/08	↓	—	—	↓

Container type: 40ml, 2oz, 4oz, 8oz, 16oz, 32oz, 1L Amber, 1L Poly, 16 Poly, Other.

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.

0915 0200

From: Origin ID: TRLA (214) 575-3344
Shukee Singh
Dynamac Corporation
1202 Executive Drive West

Richardson, TX 75081

FedEx Express

JCLS111208/28/23

Ship Date: 20NOV08
ActWgt: 35.0 LB
CAD: 7290850/INET8091
Account#: S *********

Delivery Address Bar Code

Ref # S109-D3C
Invoice #
PO #
Dept #

SHIP TO: (281) 367-0065 **BILL SENDER**

Rao Alsakani
KAP
9391 GROGANS MILL RD STE A2

THE WOODLANDS, TX 77380

TRK# 0201 7961 3143 2335

FRI - 21NOV **A1**
PRIORITY OVERNIGHT

77380
TX-US
IAH

43 CXOA

Nicole Hogue
11/21/2008 10:10

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

0916

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

Case No: 38051
DAS No:
SDG No: F2XE4

L

Date Shipped:	11/20/2008
Carrier Name:	FedEx
Airbill:	
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	John Koehnen	11/20/08 1550	[signature]	11/20/08 1550
2	[signature]	11/20/08 1700	FedEx	
3				
4			[signature]	11/21/08 10:10

Sampler Signature: John Koehnen

For Lab Use Only

Lab Contract No:	EPW05032
Unit Price:	
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
F2XE4	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356401 (HCL), 06356402 (HCL), 06356403 (HCL) (3)	DFGW15	S: 11/19/2008 10:41		S-2066.01 1st run
F2XE5	Ground Water/ Craig Carter	L/G	CLP VOA (7)	06356404 (HCL), 06356405 (HCL), 06356406 (HCL) (3)	DFGW14	S: 11/19/2008 12:15		.02
F2XE6	Ground Water/ Justin Jones	L/G	CLP VOA (7)	06356407 (HCL), 06356408 (HCL), 06356409 (HCL) (3)	DFGW13	S: 11/19/2008 12:48		.03
F2XE7	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356410 (HCL), 06356411 (HCL), 06356412 (HCL) (3)	DFGW12	S: 11/19/2008 12:48		.04
F2XE8	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356413 (HCL), 06356414 (HCL), 06356415 (HCL), 06356416 (HCL), 06356417 (HCL) (5)	DFGW11	S: 11/19/2008 15:14		.05
F2XF0	Ground Water/ Justin Jones	L/G	CLP VOA (7)	06356421 (HCL), 06356422 (HCL), 06356423 (HCL) (3)	DFGW09	S: 11/20/2008 11:03		.06
F2XF1	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356424 (HCL), 06356425 (HCL), 06356426 (HCL) (3)	DFGW08	S: 11/20/2008 9:21		.07
F2XF2	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356427 (HCL), 06356428 (HCL), 06356429 (HCL) (3)	DFGW07	S: 11/20/2008 9:45		.08
F2XF3	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356430 (HCL), 06356431 (HCL), 06356432 (HCL) (3)	DFGW06	S: 11/20/2008 9:45		.09
F2XF4	Ground Water/ Justin Jones	L/G	CLP VOA (7)	06356433 (HCL), 06356434 (HCL), 06356435 (HCL) (3)	DFGW05	S: 11/19/2008 14:55		.10

0917

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: F2XE8	Additional Sampler Signature(s): Justin Jones, Craig Carter, Jordan Jones, Jessie Ayer	Cooler Temperature Upon Receipt: 1.8°C	Chain of Custody Seal Number:
Analysis Key: CLP 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: 6-003366723-112008-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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

Case No:	38051
DAS No:	
SDG No:	F2XE4

L

Date Shipped:	11/20/2008
Carrier Name:	FedEx
Airbill:	
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	John Kolhnen 11/20/08 1550	Jim Cave 11/20/08 1550
2	Jim Cave 11/20/08 1700	FedEx
3		
4		KAR 11/21/08 10:10

Sampler Signature: John Kolhnen

For Lab Use Only

Lab Contract No:	EPW05037
Unit Price:	
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
F2XF6	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356439 (HCL), 06356440 (HCL), 06356441 (HCL) (3)	DFGW03	S: 11/19/2008	16:27		S-2066. 11
F2XF7	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356442 (HCL), 06356443 (HCL), 06356444 (HCL) (3)	DFGW02				.12
F2XF8	Ground Water/ John Koehnen	L/G	CLP VOA (7)	06356445 (HCL), 06356446 (HCL), 06356447 (HCL) (3)	DFGW01	S: 11/20/2008	12:42		.13
F2XF9	Ground Water/ Craig Carter	L/G	CLP VOA (7)	06356448 (HCL), 06356449 (HCL), 06356450 (HCL) (3)	DFPW01	S: 11/20/2008	14:11		.14
F2XG0	Ground Water/ Jordan Jones	L/G	CLP VOA (7)	06356451 (HCL), 06356452 (HCL), 06356453 (HCL) (3)	DFPW02	S: 11/20/2008	14:11		.15
F2XG1	Ground Water/ David Anderson	L/G	CLP VOA (7)	06356454 (HCL), 06356455 (HCL), 06356456 (HCL) (3)	DFTB01	S: 11/20/2008	9:22		.16

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:** F2XE8	**Additional Sampler Signature(s):** Jordan Jones, Craig Carter, Jordan Jones, Dave Anderson	**Cooler Temperature Upon Receipt:** 1.8°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

CLP VOA = CLP TCL Volatiles

TR Number: 6-003366723-112008-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY

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

Case No: 38051
DAS No:
SDG No: F2XE4 **L**

Date Shipped:	11/20/2008
Carrier Name:	FedEx
Airbill:	796131432335
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Sampler Signature: Craig Carter

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Craig Carter	11/20/08 1550	[signature]	11/20/08 1550
2 [signature]	11/20/08 1700		
3			
4		[signature]	11/21/08 10:10

For Lab Use Only

Lab Contract No:	EPW05032
Unit Price:	
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
F2XE9	Ground Water/ Craig Carter	L/G	CLP VOA (7)	06356418 (HCL), 06356419 (HCL), 06356420 (HCL) (3)	DFGW10	S: 11/19/2008 17:19		S-2066. 17 [illegible]

0919

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): Josh Gow	Cooler Temperature Upon Receipt: 1.8°	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

CLP VOA = CLP TCL Volatiles

TR Number: 6-003366723-112008-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name	KAP TECHNOLOGIES, INC.	Page 1 of 1
Received By (Print Name)	NICOLE HOGUE	Log-in Date 11·21·2008
Received By (Signature)	Nicole Hogue	
Case Number 38051	Sample Delivery Group No. F2XE4	Mod. Ref. No.

Remarks:

1. Custody Seal(s) — (Present)/Absent* / (Intact)/Broken
2. Custody Seal Nos. ———
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — (Present)/Absent*
4. Airbill — (Airbill)/Sticker Present/Absent*
5. Airbill No. 796131432335
6. Sample Tags — (Present)/Absent*
   Sample Tag Numbers — (Listed)/Not Listed on Chain-of-Custody
7. Sample Condition — (Intact)/Broken*/Leaking
8. Cooler Temperature Indicator Bottle — (Present)/Absent
9. Cooler Temperature 1.8°
10. Does information on TR/COCs and sample tags agree? (Yes)/No*
11. Date Received at Laboratory 11·21·2008
12. Time Received 10:10

EPA Sample #	Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
F2XE4	6-356401 – 6-356403	S-20660.01	Intact 3-40ml vial
E5	6-356404 – 6-356406	.02	
E6	6-356407 – 6-356409	.03	
E7	6-356410 – 6-356412	.04	
E8	6-356413 – 6-356417	.05	5-40ml vial
F0	6-356421 – 6-356423	.06	3-40ml vial
F1	6-356424 – 6-356426	.07	
F2	6-356427 – 6-356429	.08	
F3	6-356430 – 6-356432	.09	
F4	6-356433 – 6-356435	.10	
F6	6-356439 – 6-356441	.11	
F7	6-356442 – 6-356444	.12	
F8	6-356445 – 6-356447	.13	
F9	6-356448 – 6-356450	.14	
G0	6-356451 – 6-356453	.15	
G1	6-356454 – 6-356456	.16	
E9	6-356418 – 6-356420	.17	

Sample Transfer

Fraction VOA	Fraction
Area # Cooler E	Area #
By NLH	By
On 11·21·2008	On

* Contact SMO and attach record of resolution.

Reviewed By	Logbook No.
Date	Logbook Page No.

0920

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
38051	DFGW 10	11/19/08	1719	Comp.	Grab

Tag Number 6- 356419

Station Location MW 20

Samplers (Signatures) Craig Carter

Lab Sample No.

Concentration: ☐L ☐M ☐H

Remarks: F2XE9

☆U.S. GOVERNMENT PRINTING OFFICE: 2009-561-005

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 20 Sample No: F2XE9
Station Loc: DFGW10 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 17:19
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S -2066.17

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate:	
38051	DFGW 10	11/19/08	1719	Comp.	Grab

Tag Number 6- 356420

Station Location MW 20

Samplers (Signatures) Craig Carter

Lab San

Concentration: ☐L ☐M [

Remarks: F2XE9

☆U.S. GOVERNMENT PRINTING OFFICE:

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 20 Sample No: F2XE9
Station Loc: DFGW10 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 17:19
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S -2066.17

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	TB01	11/20/08	0922		

Tag Number: 6-356455

Station Location: Trip Blank

Samplers (Signatures):

Remarks: F2XG1

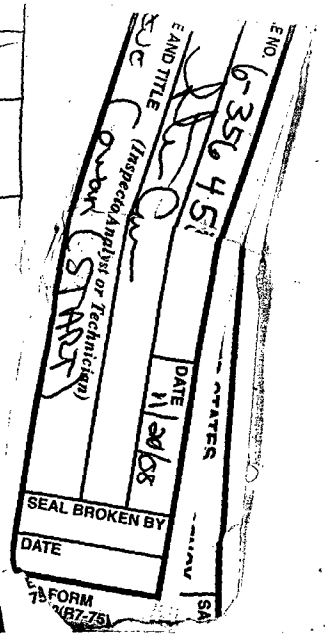
Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Trip Blank 01 Sample No: F2XG1
Station Loc: DFTB01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:22
Sampling Team Member: David Anderson
Analysis: CLP TCL Volatiles

S - 2066.16

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005



Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	TB01	11/20/08	0922		

Tag Number: 6-356456

Station Location: Trip Blank

Samplers (Signatures):

Remarks: F2XG1

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Trip Blank 01 Sample No: F2XG1
Station Loc: DFTB01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:22
Sampling Team Member: David Anderson
Analysis: CLP TCL Volatiles

S - 2066.16

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW10	11/19/08	1719		

Tag Number: 6-356418

Station Location: MW20

Samplers (Signatures): Craig Carter

Remarks: F2XE9

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 20 Sample No: F2XE9
Station Loc: DFGW10 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 17:19
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S - 2066.17

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

0922

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFPW02	11/20/08	1411		—

Tag Number: 6-356452

Station Location: Purge Water 02

Samplers (Signatures): Jordan Jones, Craig Carter

Concentration: ☒ L ☐ M ☐ H

Remarks: F2XG0

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Purge Water 02 Sample No: F2XG0
Station Loc: DFPW02 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 14:11
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.15

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFPW02	11/20/08	1411		—

Tag Number: 6-356453

Station Location: Purge Water 02

Samplers (Signatures): Jordan Jones, Craig Carter

Concentration: ☒ L ☐ M ☐ H

Remarks: F2XG0

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Purge Water 02 Sample No: F2XG0
Station Loc: DFPW02 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 14:11
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.15

☆U.S. GOVERNMENT PRINTING OFFICE: 200

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	TB01	11/20/08	0922		—

Tag Number: 6-356454

Station Location: Trip blank

Samplers (Signatures): David Anderson

Concentration: ☒ L ☐ M ☐ H

Remarks: F2XG1

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Trip Blank 01 Sample No: F2XG1
Station Loc: DFTB01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:22
Sampling Team Member: David Anderson
Analysis: CLP TCL Volatiles

Preservative: HCl Yes ☒ 0922

S -2066.16

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW01	11/20/08	1242		—

Tag Number: 6-356446

Station Location: MW 03

Samplers (Signatures): John Koehnen / Jordan Jones

Remarks: F2XF8

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 03 Sample No: F2XF8
Station Loc: DFGW01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 12:42
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.13

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFPW01	11/20/08	1411		—

Tag Number: 6-356450

Station Location: Purge water 01

Samplers (Signatures): Jordan Jones / Craig Carter

Remarks: F2XF9

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Purge Water 01 Sample No: F2XF9
Station Loc: DFPW01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 14:11
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S -2066.14

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFPW02	11/21/08	1411		—

Tag Number: 6-356451

Station Location: Purge Water 02

Samplers (Signatures): Jordan Jones / Craig Carter

Remarks: F2XG0

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Purge Water 02 Sample No: F2XG0
Station Loc: DFPW02 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 14:11
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.15

0924

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-0

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFPW01	11/20/08	1411		—

Tag Number: 6-356449
Station Location: Purge water 01
Samplers (Signatures): Craig Carter
Lab Sample No.
Concentration: ☒ L ☐ M ☐ H
Remarks: F2XF9

Project No: TO-0009-08-08-03 Case No:38051
Station No: Purge Water 01 Sample No: F2XF9
Station Loc: DFPW01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 14:11
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S -2066.14

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFPW01	11/20/08	1411		←

Tag Number: 6-356448
Station Location: Purge water-01
Samplers (Signatures): Craig Carter
Lab Sample No.
Concentration: ☒ L ☐ M ☐ H
Remarks: F2XF9

Project No: TO-0009-08-08-03 Case No:38051
Station No: Purge Water 01 Sample No: F2XF9
Station Loc: DFPW01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 14:11
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S -2066.14

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW01	11/20/08	1242		←

Tag Number: 6-356447
Station Location: MW03
Samplers (Signatures): John Koehnen
Lab Sample No.
Concentration: ☒ L ☐ M ☐ H
Remarks: F2XF8

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 03 Sample No: F2XF8
Station Loc: DFGW01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 12:42
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

0925

S -2066.13

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-01

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW02	11/20/08	1212		—

Tag Number: 6-356443

Station Location: MW 05

Samplers (Signatures): Craig Carter, Jordan Jones

Concentration: ☒ L ☐ M ☐ H

Remarks: F2XF7

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 05 Sample No: F2XF7
Station Loc: DFGW02 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 12:12
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.12

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW02	11/20/08	1217		—

Tag Number: 6-356444

Station Location: MW05

Samplers (Signatures): Craig Carter, Jordan Jones

Concentration: ☒ L ☐ M ☐ H

Remarks: F2XF7

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 05 Sample No: F2XF7
Station Loc: DFGW02 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 12:12
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.12

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW01	11/20/08	1242		—

Tag Number: 6-356445

Station Location: MW 03

Samplers (Signatures): John Koehnen, Jordan Jones

Concentration: ☒ L ☐ M ☐ H

Remarks: F2XF8

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 03 Sample No: F2XF8
Station Loc: DFGW01 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 12:42
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.13

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW 02	11/20/08	12/2		✓

Tag Number: 6- 356442

Station Location: MW 05

Samplers (Signatures): Ellis Curtis, Jordan Jones

Remarks: F2XF7

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 05 Sample No: F2XF7
Station Loc: DFGW02 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 12:12
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.12

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW 03	11/19/08	1627		✓

Tag Number: 6- 356441

Station Location: MW 06A

Samplers (Signatures): John Koehnen, Jordan Jones

Remarks: F2XF6

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 06A Sample No: F2XF6
Station Loc: DFGW03 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 16:27
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.11

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW 03	11/19/08	1627		✓

Tag Number: 6- 356440

Station Location: MW 06A

Samplers (Signatures): John Koehnen, Jordan Jones

Remarks: F2XF6

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 06A Sample No: F2XF6
Station Loc: DFGW03 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 16:27
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.11

0927

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW03	11/19/08	1627		✓

Tag Number 6-356439

Station Location MW 03 DC 06A

Samplers (Signatures) John Koehnen / Justin Jones

Concentration: ☑ L ☐ M ☐ H

Remarks: F2XF6

Lab Sample No.

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 06A Sample No: F2XF6
Station Loc: DFGW03 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 16:27
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.11

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW05	11/19/08	1465		✓

Tag Number 6-356435

Station Location MW 08

Samplers (Signatures) John Koehnen / Justin Jones

Concentration: ☑ L ☐ M ☐ H

Remarks: F2XF4

Lab Sample No.

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 08 Sample No: F2XF4
Station Loc: DFGW05 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 14:55
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S -2066.10

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW05	11/19/08	1456		✓

Tag Number 6-356434

Station Location MW 08

Samplers (Signatures) John Koehnen / Justin Jones

Concentration: ☑ L ☐ M ☐ H

Remarks: F2XF4

Lab Sample No.

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 08 Sample No: F2XF4
Station Loc: DFGW05 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 14:55
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S -2066.10

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW06	11/20/08	0945		✓

Tag Number: 6-356431

Station Location: MW 14

Samplers (Signatures): Craig Carter, Jordan Jones

Remarks: F2XF3

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 14 Sample No: F2XF3
Station Loc: DFGW06 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:45
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.09

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW06	11/20/08	0945		✓

Tag Number: 6-356432

Station Location: MW 14

Samplers (Signatures): Craig Carter, Jordan Jones

Remarks: F2XF3

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 14 Sample No: F2XF3
Station Loc: DFGW06 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:45
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.09

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW05	11/19/08	1455		✓

Tag Number: 6-356433

Station Location: MW08

Samplers (Signatures): John Cochran, Justin Jones

Remarks: F2XF4

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 08 Sample No: F2XF4
Station Loc: DFGW05 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 14:55
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S -2066.10

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW07	11/20/08	0945		✓

Tag Number: 6- 356428
Station Location: MW 14
Samplers (Signatures): Craig Carter, Jordan Jones
Remarks: F2XF2
Concentration: ☐ L ☐ M ☐ H
Lab Sample No.: S -2066.08

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 14 Sample No: F2XF2
Station Loc: DFGW07 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:45
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW07	11/20/08	0945		✓

Tag Number: 6- 356429
Station Location: MW 14
Samplers (Signatures): Craig Carter, Jordan Jones
Remarks: F2XF2
Concentration: ☒ L ☐ M ☐ H
Lab Sample No.: S -2066.08

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 14 Sample No: F2XF2
Station Loc: DFGW07 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:45
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW06	11/20/08	0945		✓

Tag Number: 6- 356430
Station Location: MW 14
Samplers (Signatures): Craig Carter, Jordan Jones
Remarks: F2XF3
Concentration: ☒ L ☐ M ☐ H
Lab Sample No.: S -2066.09

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 14 Sample No: F2XF3
Station Loc: DFGW06 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:45
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

NAME AND TITLE: David A...

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW08	11/20/08	0921		✓

Tag Number: 6-356425
Station Location: MW 16
Samplers (Signatures): John Koehnen / Jordan Jones
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XF1
Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 16 Sample No: F2XF1
Station Loc: DFGW08 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:21
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.07

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW08	11/20/08	0921		✓

Tag Number: 6-356426
Station Location: MW 16
Samplers (Signatures): John Koehnen / Jordan Jones
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XF1
Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 16 Sample No: F2XF1
Station Loc: DFGW08 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:21
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.07

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW07	11/20/08	0945		✓

Tag Number: 6-356427
Station Location: MW 14
Samplers (Signatures): Craig H Cox / Jordan Jones
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XF2
Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 14 Sample No: F2XF2
Station Loc: DFGW07 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:45
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.08

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW09	11/20/08	1103		✓

Tag Number 6-356422

Station Location: MW17

Samplers (Signatures): [signature]

Remarks: F2XF0

Concentration: ☑ L ☐ M ☐ H

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 17 Sample No: F2XF0
Station Loc: DFGW09 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 11:03
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S -2066.06

Lab Sample No.

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW09	11/20/08	1103		✓

Tag Number 6-356423

Station Location: MW17

Samplers (Signatures): [signature]

Remarks: F2XF0

Concentration: ☑ L ☐ M ☐ H

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 17 Sample No: F2XF0
Station Loc: DFGW09 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 11:03
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S -2066.06

Lab Sample No.

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW08	11/20/08	0921		✓

Tag Number 6-356424

Station Location: MW16

Samplers (Signatures): [signature]

Remarks: F2XF1

Concentration: ☑ L ☐ M ☐ H

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 16 Sample No: F2XF1
Station Loc: DFGW08 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 09:21
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.07

Lab Sample No.

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

6424

Inspector, Analyst or Technician: Anderson START

DATE 11/20/08

SEAL BROKEN BY

DATE

EPA FORM 7500-2(R7-75)

SAMPLE NO.

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Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW11	11/19/08	1514		—

Tag Number: 6-356416

Station Location: MW 22

Samplers (Signatures): Craig Carter, Jordan Jones

Remarks: F2X13

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 22 Sample No: F2XE8
Station Loc: DFGW11 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 15:14
Sampling Team Member: Jordan Jones
Anal CLP TCL Volatiles

S-2066.05

★U.S. GOVERNMENT PRINTING OFFICE: 2003-661-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW11	11/19/08	1514		—

Tag Number: 6-356417

Station Location: MW 22

Samplers (Signatures): Craig Carter, Jordan Jones

Remarks: F2X13

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.:

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 22 Sample No: F2XE8
Station Loc: DFGW11 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 15:14
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S-2066.05

★U.S. GOVERNMENT PRINTING OFFICE: 2003-661-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW09	11/20/08	1103		—

Tag Number: 6-356421

Station Location: MW17

Samplers (Signatures): Justin Jones

Remarks: F2XF0

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.:

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 17 Sample No: F2XF0
Station Loc: DFGW09 Designate: Grab
Sample Date: 11/20/2008 Sample Time: 11:03
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S-2066.06

★U.S. GOVERNMENT PRINTING OFFICE: 2003-661-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW11	11/19/08	1514		—

Tag Number 6-356415

Station Location: MW22

Samplers (Signatures): Craig Cates, Jordan Jones

Remarks: F2XE8

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 22 Sample No: F2XE8
Station Loc: DFGW11 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 15:14
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.05

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW11	11/19/08	1514		—

Tag Number 6-356414

Station Location: MW22

Samplers (Signatures): Craig H Cates, Jordan Jones

Remarks: F2XE8

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 22 Sample No: F2XE8
Station Loc: DFGW11 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 15:14
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.05

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW11	11/19/08	1514		—

Tag Number 6-356413

Station Location: MW22

Samplers (Signatures): Craig H Cates, Jordan Jones

Remarks: F2XE8

Concentration: ☑ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 22 Sample No: F2XE8
Station Loc: DFGW11 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 15:14
Sampling Team Member: Jordan Jones
Analysis: CLP TCL Volatiles

S -2066.05

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

DATE

EPA FORM 7500-2(R7-75)

SAMPLE NO. 6-356412

DATE 11/19/08

SEAL BROKEN BY

AND TITLE (Inspector, Analyst or Technician) David Anderson START

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW12	11/19/08	1248		✓

Tag Number 6-356412

Station Location MW 23

Samplers (Signatures) John Koehnen / Justo Jones

Remarks: F2XE7

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 23 Sample No: F2XE7
Station Loc: DFGW12 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:48
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.04

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW12	11/19/08	1248		✓

Tag Number 6-356411

Station Location MW 23

Samplers (Signatures) John Koehnen / Justo Jones

Remarks: F2XE7

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 23 Sample No: F2XE7
Station Loc: DFGW12 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:48
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.04

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW12	11/19/08	1248		✓

Tag Number 6-356410

Station Location MW 23

Samplers (Signatures) John Koehnen / Justo Jones

Remarks: F2XF7

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 23 Sample No: F2XE7
Station Loc: DFGW12 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:48
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.04

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW 13	11/19/08	1248		✓

Tag Number: 6-356409
Station Location: MW 23
Samplers (Signatures): John Kochner / Justin Jones
Lab Sample No.
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XE6

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 23 Sample No: F2XE6
Station Loc: DFGW13 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:48
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S - 2066.03

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW 13	11/19/08	1248		✓

Tag Number: 6-356408
Station Location: MW 23
Samplers (Signatures): John Kochner / Justin Jones
Lab Sample No.
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XE6

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 23 Sample No: F2XE6
Station Loc: DFGW13 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:48
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S - 2066.03

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW 13	11/19/08	1248		✓

Tag Number: 6-356407
Station Location: MW 23
Samplers (Signatures): John Kochner / Justin Jones
Lab Sample No.
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XE6

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 23 Sample No: F2XE6
Station Loc: DFGW13 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:48
Sampling Team Member: Justin Jones
Analysis: CLP TCL Volatiles

S - 2066.03

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW14	11/19/08	1215	—	—

Tag Number 6-356404

Station Location: MW 24

Samplers (Signatures): Gordon Gorrell, Craig Carter

Remarks: F2XE5

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 24 Sample No: F2XE5
Station Loc: DFGW14 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:15
Sampling Team Member: Craig Carter
Analysis: CLP TCL Volatiles

S -2066.02

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-00

405 DATE 11/19/08

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SEAL BROKEN BY

DATE

EPA FORM 7500-2(R7-75)

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Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW14	11/19/08	1215		—

Tag Number 6-356405

Station Location: MW 24

Samplers (Signatures): Gordon Gorrell, Craig Carter

Remarks: F2XE5

Concentration: ☒ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 24 Sample No: F2XE5
Station Loc: DFGW14 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:15
Sampling Team Member: Craig Carter
Analysis: ... TCL Volatiles

S -2066.02

☆U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
38051	DFGW14	11/19/08	1215		—

Tag Number 6-356406

Station Location: MW 24

Samplers (Signatures): Gordon Gorrell, Craig Carter

Remarks: F2XE5

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 24 Sample No: F2XE5
Station Loc: DFGW14 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 12:15
Sampling Team Member: Craig Carter
Analysis: ...LP TCL Volatiles

S -2066.02

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0937

Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW15	11/19/08	1041		✓

Tag Number: 6-356401
Station Location: MW 25
Samplers (Signatures): John Koehnen
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XE4
Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 25 Sample No: F2XE4
Station Loc: DFGW15 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 10:41
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.01

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Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW15	11/19/08	1041		✓

Tag Number: 6-356402
Station Location: MW 25
Samplers (Signatures): John Koehnen
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XE4
Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 25 Sample No: F2XE4
Station Loc: DFGW15 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 10:41
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.01

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Project Code / CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
38051	DFGW15	11/19/08	1041		✓

Tag Number: 6-356403
Station Location: MW 25
Samplers (Signatures): John Koehnen
Concentration: ☑ L ☐ M ☐ H
Remarks: F2XE4
Lab Sample No.

Project No: TO-0009-08-08-03 Case No:38051
Station No: Monitoring Well 25 Sample No: F2XE4
Station Loc: DFGW15 Designate: Grab
Sample Date: 11/19/2008 Sample Time: 10:41
Sampling Team Member: John Koehnen
Analysis: CLP TCL Volatiles

S -2066.01

0938

★U.S. GOVERNMENT PRINTING OFFICE: 2003-561-005

0939

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. ICE Chest
DATE 11/20/08
SIGNATURE David Anders
PRINT NAME AND TITLE (Inspector, Analyst or Technician) David Anders START
SEAL BROKEN BY
DATE
EPA FORM 7500-2(R7-75)

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. ICE Chest
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SIGNATURE David Anders
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