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

LABORATORY NAME A4 SCIENTIFIC, INC.
CITY/STATE THE WOODLANDS, TX
CASE NO. 39551 SDG NO. F3FY1
SDG NOs. TO FOLLOW NA
MOD. REF. NO. N/A
CONTRACT NO. EPW05036
SOW NO. SOM01.2

622111

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**	1	2	✓	✓
3. **SDG Cover Sheet/Traffic Report**	3	12	✓	✓
4. **Trace Volatiles Data**				
a. QC Summary				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	13	14	✓	✓
Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA) (if requested by USEPA Region)	15	15	✓	✓
Method Blank Summary (Form IV VOA)	16	18	✓	✓
GC/MS Instrument Performance Check (Form V VOA)	19	21	✓	✓
Internal Standard Area and RT Summary (Form VIII VOA)	22	24	✓	✓
b. Sample Data	25	200	✓	✓
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)	201	259		
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	260	271	✓	✓
Blank Data	272	312	✓	✓

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

CASE NO. 39551 SDG NO. F3FY1 SDG NOS. TO FOLLOW NA

MOD. REF. NO. N/A

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)	313	328	✓	✓
e. Trace SIM Data (Place at the end of the Trace Volatiles Section)				NA
[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			CH 3/15/10	
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				
Blank Data				

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

CASE NO. 39551 SDG NO. F3FY1 SDG NOS. TO FOLLOW NA

MOD. REF. NO. N/A

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Martix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)				NA
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)			ch 3/15/10	
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				

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

CASE NO. 39551 SDG NO. F3FY1 SDG NOS. TO FOLLOW NA

MOD. REF. NO. N/A

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
f. Semivolatile SIM Data				NA
[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			ch 3/15/10	
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)				
Calibration Verification Summary (Form VII PEST-3)				

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

CASE NO. 39551 SDG NO. F3FY1 SDG NOS. TO FOLLOW NA

MOD. REF. NO. N/A

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
Calibration Verification Summary (Form VII PEST-4)				NA
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			ch 3/15/10	
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				
Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				

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

CASE NO. 39551 SDG NO. F3FY1 SDG NOS. TO FOLLOW NA

MOD. REF. NO. N/A

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
c. Standards Data				
Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3)				NA
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)				

Ch 3/15/10

9. **Miscellaneous Data**

Original preparation and analysis forms or copies of preparation and analysis logbook pages	329	335	✓	✓
Internal sample and sample extract transfer chain-of-custody records	↓	↓	↓	✓
Screening records	↓	↓	↓	✓
All instrument output, including strip charts from screening activities (describe or list)				

10. **EPA Shipping/Receiving Documents**

Airbills (No. of shipments 2)	336	342	✓	✓
Chain of Custody Records	343	351	✓	✓
Sample Tags	352	358	✓	✓
Sample Log-in Sheet (Lab & DC-1)	359	369	✓	✓
Miscellaneous Shipping/Receiving Records (describe or list)				
CUSTODY SEALS	370	380	✓	✓

Ch 3/15/10

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

CASE NO. 39551 SDG NO. F3FY1 SDG NOS. TO FOLLOW NA

MOD. REF. NO. N/A

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK USEPA
11. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
CUSTODY LOG BOOK	381	382	✓	✓
12. **Other Records** (describe or list)				
Telephone Communication Log	N/A	N/A		✓
E-MAILS	↓	↓		
PE INSTRUCTIONS				

13. **Comments**

CH 3/15/10

Completed by: (CLP Lab) (Signature) Laxmidevi Chinnam/QC specialist (Printed Name/Title) 3/15/10 (Date)

Verified by: (CLP Lab) (Signature) Sreelakshmi Teerupalli/QA specialist (Printed Name/Title) 3/15/10 (Date)

Audited by: (~~USEPA~~) (Signature) TSENG-PING FAN/Peak Rev (Printed Name/Title) 3/22/10 (Date)

(ESAT)

COVER SHEET
LABORATORY RESPONSE TO REGION'S REQUEST

Labcode: A4

Response Date: 03/23/2010

Request Date: 03/23/2010

EPA Contract No. EPW05036

Case No. 39551

SDG No. F3FY1

Sample Nos.

Other Information:

Sue Turupalli Sr QA specialist
Signature/Title

03/23/10
Date

Green Sheet

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW05036	**Case #: 39551**	**SDG #: F3FY1**

RESPONSE TO REGION'S DATA VALIDATION

REGIONS REQUEST DATE: 03/23/2010 **LAB RESPONSE DATE: 03/23/2010**

Following are the responses to the data validation questions/issues submitted by the Region for the above referenced SDG.

This submission package has been numbered sequentially.

FRACTION (S): TVOA

FRACTION	RESPONSE
TVOA	The data reviewer has been inadvertently entered the pH in SDG Narrative. Corrected SDG narrative is included in this submittal.

Sue Turupelli & QA Specialist — 03/23/10

Signature and Title — Date of Signature

A4 SCIENTIFIC, INC.
1544 Sawdust Road, Suite505•The Woodlands, TX 77380•Phone (281) 292-5277

Contract #: EPW05036	Case #: 39551	SDG #: F3FY1

SDG NARRATIVE

SAMPLE RECEIPT & LOGIN

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

Client Sample	*Lab Sample*	*Matrix*	*#Cont.*	*Received*	*Analysis*	*Comments*
F3FY7	0011759-01	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	
F3FZ2	0011759-02	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	
F3FY6	0011759-03	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	
F3FZ4	0011759-04	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	
F3FZ5	0011759-05	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	
F3FZ6	0011759-06	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	
F3FZ3	0011759-07	Water	3	03/11/10 13:00	SOM01.2 VOA TRACE	FINAL Sx
F3FZ0	0011765-01	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	1st Sx
F3FZ1	0011765-02	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	
F3FX7	0011765-03	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	
F3FY4	0011765-04	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	
F3FY5	0011765-05	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	
F3FY1	0011765-06	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	
F3FY2	0011765-07	Water	3	03/10/10 09:30	SOM01.2 VOA TRACE	
F3FY3	0011765-08	Water	9	03/10/10 09:30	SOM01.2 VOA TRACE	MS/MSD
VHBLK55	0011765-09	Water	2	03/10/10 09:30	SOM01.2 VOA TRACE	STORAGE BLANK

The cooler temperatures are listed against the coolers.

DATE RECEIVED	COOLER NO.	Temp (in °C)	Airbill No.
03/10/2010	1	4	867317986988
03/11/2010	1	4	870536934094

No discrepancies or issues were noted during sample receipt and login.

VOLATILES TRACE

Samples were analyzed using instrument **C-5973**.

A4 SCIENTIFIC, INC.
1544 Sawdust Road, Suite505•The Woodlands, TX 77380•Phone (281) 292-5277

Contract #: EPW05036	Case #: 39551	SDG #: F3FY1

Instrument C-5973 consisted of an Agilent 5973 GC/MS with a 25-meter long DB-624 (Agilent cat#128-1324) column having a 0.2mm ID and 1.12µm film thickness, OI Purge and Trap Model 4560 with an Archon auto sampler. The trap used was a #10 trap (OI Cat# 228122) having an approximate composition of 40% Tenax, 30% Silica gel and 30% CMS.

MS/MSD was performed on sample F3FY3.

The following equations were used for calculation of the sample results from raw instrument output data:

VOLATILES

Water (Low/Med, Trace & SIM):

$$\text{Concentration } (\mu g/L) = \frac{(Ax)(Is)(Df)}{(Ais)(\overline{RRF})(Vo)}$$

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.
I_s = Amount of internal standard added in nanograms (ng).

$\overline{RRF}$ = Mean relative response factor from the initial calibration.
V_o = Total volume of water purged, in milliliters (mL).
Df = Dilution factor.

I certify that this Sample 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 Manager's designee, as verified by the following signature.

Sue Turupalli QA specialist
Signature and Title

03/23/10
Date of Signature

SAMPLE DELIVERY GROUP (SDG)
COVER SHEET

SDG Number: F3FY1

Laboratory Name: A4 SCIENTIFIC, INC. **Laboratory Code:** A4

Contract No.: EPW05036 **Case No.:** 39551

Analysis Price: $416.00 **SDG Turnaround:** 5 days

Modified Analysis (if applicable):

Modification Reference No.: N/A

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) F3FX7	7) F3FY6	13) F3FZ4	19)
2) F3FY1	8) F3FY7	14) F3FZ5	20)
3) F3FY2	9) F3FZ0	15) F3FZ6	21)
4) F3FY3	10) F3FZ1	16)	22)
5) F3FY4	11) F3FZ2	17)	23)
6) F3FY5	12) F3FZ3	18)	24)

F3FX7	F3FZ6
First Sample in SDG	**Last Sample in SDG**
03/10/2010	03/11/2010
First Sample Receipt Date	**Last Sample Receipt Date**

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).*

Kishore — **Signature**

3/12/10 — **Date**

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

Case No: 39551
DAS No:
SDG No: F3F~~X7~~Y1 **L**

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760238649
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 17:08	Kishore,	3/10/10, 9:30
2			
3			Rec 3/3/10
4			

For Lab Use Only

Lab Contract No: EPW05036
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

Rec 3/10/10

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
F3FZ0	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487761 (Ice Only), 6-487762 (Ice Only), 6-487763 (Ice Only), 6-487764 (Ice Only), 6-487765 (Ice Only), 6-487766 (Ice Only), 6-487768 (Ice Only), 6-487769 (Ice Only), 6-487770 (Ice Only) (9)	GW-14	S: 3/9/2010 12:14	MF3FZ0 Rec 3/12/10	0011747-01 1st Sx in SDG# Intact ~~47~~ 65
F3FZ1	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487772 (Ice Only), 6-487773 (Ice Only), 6-487774 (Ice Only), 6-487775 (Ice Only), 6-487776 (Ice Only), 6-487777 (Ice Only), 6-487779 (Ice Only), 6-487780 (Ice Only), 6-487781 (Ice Only) (9)	GW-15	S: 3/9/2010 14:43	MF3FZ1	-02 (One container for ARO broken)

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0005

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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

EPA

Case No:	39551
DAS No:	
SDG No:	F3FX7Y1

L

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760237322
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	3/9/10 14:50	Kishore,	3/10/10, 9:30
2			
3		Re 3/10/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Re 3/10/10

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
F3FX7	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487455 (Ice Only), 6-487456 (Ice Only), 6-487457 (Ice Only), 6-487458 (Ice Only), 6-487459 (Ice Only), 6-487460 (Ice Only), 6-487462 (Ice Only), 6-487463 (Ice Only), 6-487464 (Ice Only) (9)	GW-01	S: 3/9/2010	9:12	MF3FX7 Re 3/12/10	0011767-03 65 INTACT
F3FY4	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487703 (Ice Only), 6-487704 (Ice Only), 6-487705 (Ice Only), 6-487706 (Ice Only), 6-487707 (Ice Only), 6-487708 (Ice Only), 6-487710 (Ice Only), 6-487711 (Ice Only), 6-487712 (Ice Only) (9)	GW-08	S: 3/9/2010	10:30	MF3FY4	-04
F3FY5	Ground Water/ Gary Hazelwood	L/G	VOA (5)	6-487713 (Ice Only), 6-487714 (Ice Only), 6-487715 (Ice Only) (3)	GW-09	S: 3/9/2010	11:10		-05

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

6

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

Case No: 39551
DAS No:
SDG No: F3F~~X7~~Y1 **L**

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	867317986988
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 17:09	Kishore,	3/10/10, 9:30
2			
3			Rec 3/10/10
4			

For Lab Use Only

Lab Contract No: EPW05036
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

Rec 3/10/10

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
F3FY1	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487650 (Ice Only), 6-487651 (Ice Only), 6-487652 (Ice Only), 6-487653 (Ice Only), 6-487654 (Ice Only), 6-487655 (Ice Only), 6-487657 (Ice Only), 6-487658 (Ice Only), 6-487659 (Ice Only) (9)	GW-05	S: 3/9/2010 15:32	MF3FY1	0011747-06 65 INTACT

Rec 3/12/10

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0006

LABORATORY COPY

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

4

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

Case No: 39551
DAS No:
SDG No: F3F~~X7~~Y1 **L**

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760238650
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	3/9/10 16:58	Kishore,	3/10/10, 9:30
2			
3		Rec 3/10/10	
4			

For Lab Use Only

Lab Contract No: EPW05036
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

Rec 3/10/10

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
F3FY2	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487661 (Ice Only), 6-487662 (Ice Only), 6-487663 (Ice Only), 6-487664 (Ice Only), 6-487665 (Ice Only), 6-487666 (Ice Only), 6-487668 (Ice Only), 6-487669 (Ice Only), 6-487670 (Ice Only) (9)	GW-06	S: 3/9/2010 11:29	MF3FY2	0011767-07 65 INTACT
F3FY3	Ground Water/ Gary Hazelwood	L/G	BNA (7)	6-487685 (Ice Only), 6-487686 (Ice Only), 6-487687 (Ice Only), 6-487688 (Ice Only), 6-487689 (Ice Only), 6-487690 (Ice Only) (6)	GW-07	S: 3/9/2010 10:10	MF3FY3	-08

Rec 3/12/10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MS/MSD F3FY3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0004

LABORATORY COPY

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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:	39551
DAS No:	
SDG No:	F3FY3 L

3

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760237311
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 4:16	Kishwa	3/10/10, 9:30
2			
3		KK	3/10/10
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/10/10

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
F3FY3	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), VOA (5)	6-487673 (Ice Only), 6-487674 (Ice Only), 6-487675 (Ice Only), 6-487676 (Ice Only), 6-487677 (Ice Only), 6-487678 (Ice Only), 6-487679 (Ice Only), 6-487680 (Ice Only), 6-487681 (Ice Only), 6-487682 (Ice Only), 6-487683 (Ice Only), 6-487684 (Ice Only), 6-487693 (Ice Only), 6-487694 (Ice Only), 6-487695 (Ice Only), 6-487696 (Ice Only), 6-487697 (Ice Only), 6-487698 (Ice Only), 6-487699 (Ice Only), 6-487700 (Ice Only), 6-487701 (Ice Only) (21)	GW-07	S: 3/9/2010	10:10	MF3FY3	0011747-08 65

Rec 3/12/10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MS/MSD F3FY3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0003

LABORATORY COPY

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

EPA

Case No:	39551
DAS No:	
SDG No:	F3FY1

L

3

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	870536934094
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	03/03/10 1725	Kishore	3/11/10, 13:00
2			
3		Re 3/4/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/11/10

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
F3FY7	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487728 (Ice Only), 6-487729 (Ice Only), 6-487730 (Ice Only), 6-487731 (Ice Only), 6-487732 (Ice Only), 6-487733 (Ice Only), 6-487735 (Ice Only), 6-487736 (Ice Only), 6-487737 (Ice Only) (9)	GW-11	S: 3/10/2010 13:22	MF3FY7	0011758-01 0011759-01
F3FZ2	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487783 (Ice Only), 6-487784 (Ice Only), 6-487785 (Ice Only), 6-487786 (Ice Only), 6-487787 (Ice Only), 6-487788 (Ice Only), 6-487790 (Ice Only), 6-487791 (Ice Only), 6-487792 (Ice Only) (9)	GW-16	S: 3/10/2010 15:00	MF3FZ2	0011758-02 0011759-02

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0003

LABORATORY COPY

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

Case No:	39551
DAS No:	
SDG No:	F3FY1

L

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	870536934109
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	3/10/10 1714	Kishore	3/11/10, 13:00
2			
3		RC	3/11/10
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

RC 3/11/10

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
F3FY6	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487717 (Ice Only), 6-487718 (Ice Only), 6-487719 (Ice Only), 6-487720 (Ice Only), 6-487721 (Ice Only), 6-487722 (Ice Only), 6-487724 (Ice Only), 6-487725 (Ice Only), 6-487726 (Ice Only) (9)	GW-10	S: 3/10/2010	12:45	MF3FY6	0011758/759-03
F3FZ4	Ground Water/ Gary Hazelwood	L/G	VOA (5)	6-487804 (Ice Only), 6-487805 (Ice Only), 6-487806 (Ice Only) (3)	GW-18	S: 3/10/2010	11:15		0011759-04
F3FZ5	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487808 (Ice Only), 6-487809 (Ice Only), 6-487810 (Ice Only), 6-487811 (Ice Only), 6-487812 (Ice Only), 6-487813 (Ice Only), 6-487815 (Ice Only), 6-487816 (Ice Only), 6-487817 (Ice Only) (9)	GW-19	S: 3/10/2010	11:40	MF3FZ5	0011758-04 0011759-05

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0002

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

Case No:	39551
DAS No:	
SDG No:	F3FY1

L

5

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	867317986977
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	03/10/10 1727	Kisha	3/11/10, 13:00
2			
3		Rec 3/11/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/11/10

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
F3FZ6	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487819 (Ice Only), 6-487820 (Ice Only), 6-487821 (Ice Only), 6-487822 (Ice Only), 6-487823 (Ice Only), 6-487824 (Ice Only), 6-487826 (Ice Only), 6-487827 (Ice Only), 6-487828 (Ice Only) (9)	GW-20	S: 3/10/2010 16:20	MF3FZ6	0011758/~~759~~-05 0011759-06

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0005

LABORATORY COPY

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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:	39551
DAS No:	
SDG No:	F3FY1 L

4

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	870536934083
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	03/10/10 1725	Kisher,	3/11/10, 13:00
2			
3		Rec 3/11/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 7/11/10

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
F3FZ3	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487794 (Ice Only), 6-487795 (Ice Only), 6-487796 (Ice Only), 6-487797 (Ice Only), 6-487798 (Ice Only), 6-487799 (Ice Only), 6-487801 (Ice Only), 6-487802 (Ice Only), 6-487803 (Ice Only) (9)	GW-17	S: 3/10/2010	15:35	MF3FZ3	0011758 - 06 0011759 - 07

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ✓	Shipment Iced? ✓

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0004

LABORATORY COPY

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

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	F3FX7	113	105	83	60	95	76 *	113
02	F3FY1	119	111	93	64	97	79	114
03	F3FY2	119	110	92	66	94	77 *	113
04	F3FY3	119	110	91	60	95	75 *	116
05	F3FY3MS	110	114	117 *	63	99	85	116
06	F3FY3MSD	100	98	100	87	85	83	91
07	F3FY4	116	108	88	64	95	76 *	113
08	F3FY5	121	114	93	70	95	81	116
09	F3FY6	112	110	90	67	100	85	115
10	F3FY7	115	112	89	72	98	87	117
11	F3FZ0	111	103	88	58	92	76 *	110
12	F3FZ1	115	108	88	64	96	77 *	113
13	F3FZ2	115	113	89	65	99	82	118
14	F3FZ3	117	115	90	60	102	85	121
15	F3FZ4	111	106	88	60	96	84	116
16	F3FZ5	113	108	87	71	98	84	115
17	F3FZ6	113	112	92	71	103	87	116
18	VBLK04	108	104	81	96	93	93	97
19	VBLK05	107	105	83	77	92	90	98
20	VBLK55	96	94	74	95	84	86	89
21	VHBLK55	98	97	75	95	88	89	94
22								
23								
24								
25								
26								
27								
28								
29								
30								

		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
* Value outside of contract required QC limits

000000013

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

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

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	F3FX7	96	112	81	62		66 *	101	2
02	F3FY1	97	117 ✓	82	63		64 *	102	1
03	F3FY2	95	113	78	64		65 *	100	2
04	F3FY3	97	116	82	61		62 *	99	2
05	F3FY3MS	100	115	61 *	57		64 *	104	3
06	F3FY3MSD	81	89	80	83		79	88	0
07	F3FY4	95	114	81	64		62 *	98	2
08	F3FY5	99	116	84	66		64 *	102	1
09	F3FY6	100	114	69 *	65		69 *	105	2
10	F3FY7	100	114 ✓	75	72		75	106	0
11	F3FZ0	92	111	83	58		63 *	97	2
12	F3FZ1	95	112	82	65		66 *	99	2
13	F3FZ2	102	118	70 *	64		67 *	108	2
14	F3FZ3	104	119	63 *	55		63 *	107	2
15	F3FZ4	99	115	68 *	57		62 *	102	2
16	F3FZ5	98	113	70 *	67		68 *	103	2
17	F3FZ6	102	116	69 *	66		68 *	105	2
18	VBLK04	89	97	95	93		95	96	0
19	VBLK05	89	96	88	78		88	96	0
20	VBLK55	84	87	83	89		85	88	0
21	VHBLK55	87	90	84	93		88	93	0
22									
23									
24									
25									
26									
27									
28									
29									
30									

		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
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

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

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Matrix Spike - EPA Sample No.: F3FY3 Level: TRACE or 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	0.0	5.2	105	61-145
Benzene	5.0	0.0	5.7	113	76-127
Trichloroethene	5.0	0.0	5.8	117	71-120
Toluene	5.0	0.0	5.5	111	76-125
Chlorobenzene	5.0	0.0	5.2	104	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC #	%RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	5.0	4.5	90	15 *	0-14	61-145
Benzene	5.0	4.2	85	29 *	0-11	76-127
Trichloroethene	5.0	4.2	84	32 *	0-14	71-120
Toluene	5.0	4.2	84	27 *	0-13	76-125
Chlorobenzene	5.0	4.1	82	23 *	0-13	75-130

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

RPD: 5 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.

VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Lab File ID: C2558.D Lab Sample ID: 0030137-BLK1

Instrument ID: C-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 03/12/2010

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 1134

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F3FY3	0011765-08	C2560.D	1245
02	F3FZ0	0011765-01	C2561.D	1336
03	F3FZ1	0011765-02	C2562.D	1402
04	F3FX7	0011765-03	C2563.D	1430
05	F3FY4	0011765-04	C2564.D	1457
06	F3FY5	0011765-05	C2565.D	1524
07	F3FY1	0011765-06	C2566.D	1551
08	F3FY2	0011765-07	C2567.D	1619
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
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COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Lab File ID: C2571.D Lab Sample ID: 0030145-BLK1

Instrument ID: C-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 03/12/2010

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 1840

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F3FY7	0011759-01	C2580.D	2236
02	F3FZ2	0011759-02	C2581.D	2303
03	F3FY6	0011759-03	C2582.D	2329
04	F3FZ4	0011759-04	C2583.D	2355
05	F3FZ5	0011759-05	C2584.D	0021
06	F3FZ6	0011759-06	C2585.D	0048
07	F3FZ3	0011759-07	C2586.D	0115
08	F3FY3MS	0030145-MS1	C2587.D	0141
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COMMENTS:

000000017

SOM01.2 (8/2007)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Lab File ID: C2595.D Lab Sample ID: 0030155-BLK1

Instrument ID: C-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 03/15/2010

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 1220

GC Column: DB-624 ID: 0.20 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	F3FY3MSD	0030155-MSD1	C2596.D	1253
02	VHBLK55	0011765-09	C2597.D	1319
03				
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COMMENTS:

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

EPA SAMPLE NO.

BFB04

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Lab File ID: C2552.D BFB Injection Date: 03/12/2010

Instrument ID: C-5973 BFB Injection Time: 0843

GC Column: DB-624 ID: 0.20 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.9
75	30.0 - 80.0% of mass 95	45.2
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120% of mass 95	90.9
175	5.0 - 9.0% of mass 174	5.8 (6.4)1
176	95.0 - 101% of mass 174	86.5 (95.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.7)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	VSTD00504	0C12001-CAL3	C2553.D	03/12/2010	0916
02	VSTD02004	0C12001-CAL5	C2554.D	03/12/2010	0946
03	VSTD01004	0C12001-CAL4	C2555.D	03/12/2010	1012
04	VSTD00104	0C12001-CAL2	C2556.D	03/12/2010	1039
05	VSTD0.504	0C12001-CAL1	C2557.D	03/12/2010	1105
06	VBLK04	0030137-BLK1	C2558.D	03/12/2010	1134
07	F3FY3	0011765-08	C2560.D	03/12/2010	1245
08	F3FZ0	0011765-01	C2561.D	03/12/2010	1336
09	F3FZ1	0011765-02	C2562.D	03/12/2010	1402
10	F3FX7	0011765-03	C2563.D	03/12/2010	1430
11	F3FY4	0011765-04	C2564.D	03/12/2010	1457
12	F3FY5	0011765-05	C2565.D	03/12/2010	1524
13	F3FY1	0011765-06	C2566.D	03/12/2010	1551
14	F3FY2	0011765-07	C2567.D	03/12/2010	1619
15	VSTD00505	0C12001-CCV1	C2570.D	03/12/2010	1807
16	VBLK05	0030145-BLK1	C2571.D	03/12/2010	1840
17	F3FY7	0011759-01	C2580.D	03/12/2010	2236
18	F3FZ2	0011759-02	C2581.D	03/12/2010	2303
19	F3FY6	0011759-03	C2582.D	03/12/2010	2329
20	F3FZ4	0011759-04	C2583.D	03/12/2010	2355
21	F3FZ5	0011759-05	C2584.D	03/13/2010	0021
22	F3FZ6	0011759-06	C2585.D	03/13/2010	0048

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

EPA SAMPLE NO.

BFB04

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Lab File ID: C2552.D BFB Injection Date: 03/12/2010

Instrument ID: C-5973 BFB Injection Time: 0843

GC Column: DB-624 ID: 0.20 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.9
75	30.0 - 80.0% of mass 95	45.2
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120% of mass 95	90.9
175	5.0 - 9.0% of mass 174	5.8 (6.4)1
176	95.0 - 101% of mass 174	86.5 (95.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.7)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	F3FZ3	0011759-07	C2586.D	03/13/2010	0115
02	F3FY3MS	0030145-MS1	C2587.D	03/13/2010	0141
03	VSTD00506	0C12001-CCV2	C2591.D	03/13/2010	0326
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5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB07

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Lab File ID: C2593.D BFB Injection Date: 03/15/2010

Instrument ID: C-5973 BFB Injection Time: 1051

GC Column: DB-624 ID: 0.20 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 80.0% of mass 95	43.2
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120% of mass 95	90.4
175	5.0 - 9.0% of mass 174	6.6 (7.4)1
176	95.0 - 101% of mass 174	86.4 (95.6)1
177	5.0 - 9.0% of mass 176	5.4 (6.3)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	VSTD00507	0C15005-CCV1	C2594.D	03/15/2010	1141
02	VBLK55	0030155-BLK1	C2595.D	03/15/2010	1220
03	F3FY3MSD	0030155-MSD1	C2596.D	03/15/2010	1253
04	VHBLK55	0011765-09	C2597.D	03/15/2010	1319
05	VSTD00508	0C15005-CCV2	C2600.D	03/15/2010	1452
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000000021

SOM01.2 (8/2007)

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

GC Column: DB-624 ID: 0.20 (mm) Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00504 Date Analyzed: 03/12/2010

Lab File ID (Standard): C2553.D Time Analyzed: 0916

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

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	187949	10.41	209335	6.39	103141	13.24
	UPPER LIMIT	263129	10.74	293069	6.72	144397	13.57
	LOWER LIMIT	112769	10.08	125601	6.06	61885	12.91
	EPA SAMPLE NO.						
01	VSTD02004	193415	10.41	218988	6.39	115937	13.24
02	VSTD01004	184809	10.41	208940	6.39	111733	13.24
03	VSTD00104	189152	10.41	198192	6.39	100006	13.24
04	VSTD0.504	170175	10.41	176594	6.39	87679	13.24
05	VBLK04	176214	10.41	191284	6.40	93476	13.24
06	F3FY3	178473	10.41	215488	6.40	78133	13.24
07	F3FZ0	190992	10.41	226361	6.39	87622	13.25
08	F3FZ1	174564	10.41	204962	6.39	87076	13.24
09	F3FX7	165793	10.41	199538	6.39	82302	13.24
10	F3FY4	158052	10.41	189950	6.38	80468	13.24
11	F3FY5	169838	10.41	201564	6.39	77208	13.24
12	F3FY1	173298	10.41	204706	6.39	80510	13.24
13	F3FY2	167910	10.41	198651	6.39	77945	13.24
14	VSTD00505	172807	10.41	195105	6.39	98293	13.24
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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: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

GC Column: DB-624 ID: 0.20 (mm) Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00505 Date Analyzed: 03/12/2010

Lab File ID (Standard): C2570.D Time Analyzed: 1807

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

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	172807	10.41	195105	6.39	98293	13.24
	UPPER LIMIT	241930	10.74	273147	6.72	137610	13.57
	LOWER LIMIT	103684	10.08	117063	6.06	58976	12.91
	EPA SAMPLE NO.						
01	VBLK05	177106	10.41	194910	6.39	89550	13.25
02	F3FY7	143652	10.41	171084	6.39	68081	13.24
03	F3FZ2	135169	10.41	163459	6.39	63166	13.24
04	F3FY6	140773	10.41	165210	6.39	67589	13.24
05	F3FZ4	149968	10.41	175716	6.39	67119	13.24
06	F3FZ5	149618	10.41	175451	6.39	68478	13.24
07	F3FZ6	141646	10.41	164842	6.39	62143	13.24
08	F3FZ3	130916	10.41	158139	6.39	60198	13.24
09	F3FY3MS	134026	10.41	158494	6.38	63004	13.24
10	VSTD00506	92499 *	10.41	108349 *	6.38	51243 *	13.24
11							
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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: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

GC Column: DB-624 ID: 0.20 (mm) Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00507 Date Analyzed: 03/15/2010

Lab File ID (Standard): C2594.D Time Analyzed: 1141

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

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	182975	10.41	206303	6.39	101675	13.24
	UPPER LIMIT	256165	10.74	288824	6.72	142345	13.57
	LOWER LIMIT	109785	10.08	123782	6.06	61005	12.91
	EPA SAMPLE NO.						
01	VBLK55	195427	10.41	216368	6.40	99709	13.24
02	F3FY3MSD	205244	10.41	226185	6.39	106139	13.24
03	VHBLK55	159137	10.41	182361	6.39	90513	13.24
04	VSTD00508	174757	10.41	196958	6.39	98180	13.24
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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.

000000024

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

EPA SAMPLE NO.
F3FX7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2563.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.

F3FX7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2563.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FX7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2563.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2563.D
Acq On : 12 Mar 2010 14:30
Sample : 0011765-03
Misc : F3FX7 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 15:01:42 2010

Vial: 5
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10
3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	199538	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	165793	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	82302	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.21	65	128796	5.6290 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 112.58%		
7) Chloroethane-d5	2.62	69	100721	5.2277 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 104.55%		
10) 1,1-Dichloroethene-d2	3.33	63	111512	4.1697 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 83.39%		
20) 2-Butanone-d5	4.94	46	32260	30.1333 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 60.27%		
24) Chloroform-d	5.32	84	114371	4.7544 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 95.09%		
26) 1,2-Dichloroethane-d4	5.89	65	44891	3.7776 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 75.55%#		
32) Benzene-d6	5.93	84	282454	5.6267 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 112.53%		
35) 1,2-Dichloropropane-d6	6.88	67	70332	4.7811 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 95.62%		
41) Toluene-d8	8.29	98	270843	5.6020 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 112.04%		
43) trans-1,3-Dichloropropene-	8.61	79	54625	4.0703 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 81.41%		
47) 2-Hexanone-d5	9.21	63	24764	30.8577 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 61.72%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	35427	3.3210 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 66.42%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	87025	5.0353 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 100.71%		

Target Compounds Qvalue

000000028

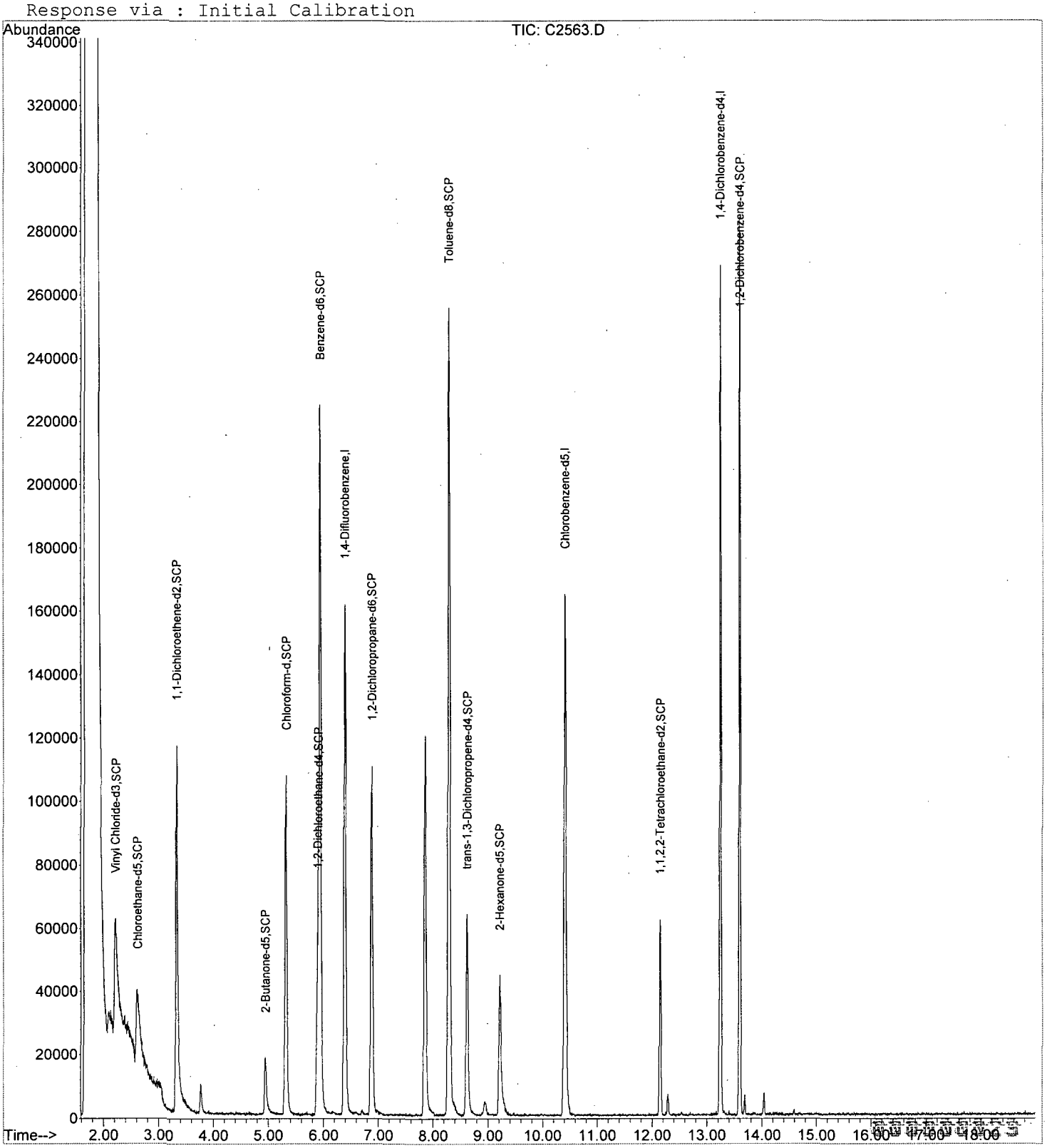
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2563.D
Acq On : 12 Mar 2010 14:30
Sample : 0011765-03
Misc : F3FX7 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:13 2010

Vial: 5
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2563.D Vial: 5
Acq On : 12 Mar 2010 14:30 Operator: SP
Sample : 0011765-03 Inst : C-5973
Misc : F3FX7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.665	8	26	28	rBV	384965	545062	0.98%	0.893%
2	1.778	31	61	132	rVB	7235466	55590334	100.00%	91.122%
3	2.211	187	196	197	rBV3	32746	40320	0.07%	0.066%
4	2.606	309	319	322	rBV2	23122	38084	0.07%	0.062%
5	2.991	436	439	440	rBV3	2021	1060	0.00%	0.002%
6	3.029	450	451	456	rBV4	1747	1434	0.00%	0.002%
7	3.068	461	463	466	rVB	3069	1542	0.00%	0.003%
8	3.328	530	544	564	rBV2	115482	274589	0.49%	0.450%
9	3.652	644	645	652	rVB4	1158	1042	0.00%	0.002%
10	3.767	670	681	682	rBV3	9359	8955	0.02%	0.015%
11	4.945	1034	1048	1049	rBV	17810	21203	0.04%	0.035%
12	5.317	1148	1164	1184	rBV	106837	264188	0.48%	0.433%
13	5.555	1234	1238	1244	rVB2	1128	1008	0.00%	0.002%
14	5.933	1326	1356	1382	rBV3	224284	696363	1.25%	1.141%
15	6.386	1480	1497	1517	rBV3	160789	404328	0.73%	0.663%
16	6.707	1594	1597	1601	rVB4	1275	1035	0.00%	0.002%
17	6.877	1633	1650	1674	rBV4	110300	289934	0.52%	0.475%
18	7.849	1935	1953	1972	rBV2	119905	316433	0.57%	0.519%
19	8.013	2002	2004	2008	rVB3	1375	1048	0.00%	0.002%
20	8.289	2071	2090	2113	rBV	254486	670805	1.21%	1.100%
21	8.391	2121	2122	2127	rVB4	1895	1467	0.00%	0.002%
22	8.619	2177	2193	2219	rBV2	63052	161885	0.29%	0.265%
23	8.921	2283	2287	2288	rBV2	1803	1075	0.00%	0.002%
24	8.972	2302	2303	2309	rVB2	2001	1263	0.00%	0.002%
25	9.213	2362	2378	2399	rBV2	44258	128533	0.23%	0.211%
26	9.331	2414	2415	2421	rVB4	1856	1220	0.00%	0.002%
27	10.406	2730	2750	2768	rBV3	164710	451659	0.81%	0.740%
28	12.146	3279	3292	3305	rBV4	61839	116861	0.21%	0.192%
29	12.287	3328	3336	3345	rBV4	6416	10002	0.02%	0.016%
30	13.240	3620	3633	3650	rBV	268133	454370	0.82%	0.745%
31	13.404	3680	3684	3688	rVB3	1604	1075	0.00%	0.002%
32	13.593	3731	3743	3758	rBV	283074	485134	0.87%	0.795%
33	13.689	3764	3773	3780	rBV6	6100	7682	0.01%	0.013%
34	14.036	3871	3881	3891	rVB2	7069	10879	0.02%	0.018%
35	14.594	4048	4055	4059	rBV4	1853	2333	0.00%	0.004%
36	14.677	4077	4081	4084	rBV2	1078	1050	0.00%	0.002%
37	15.692	4395	4397	4404	rVB2	1247	1272	0.00%	0.002%

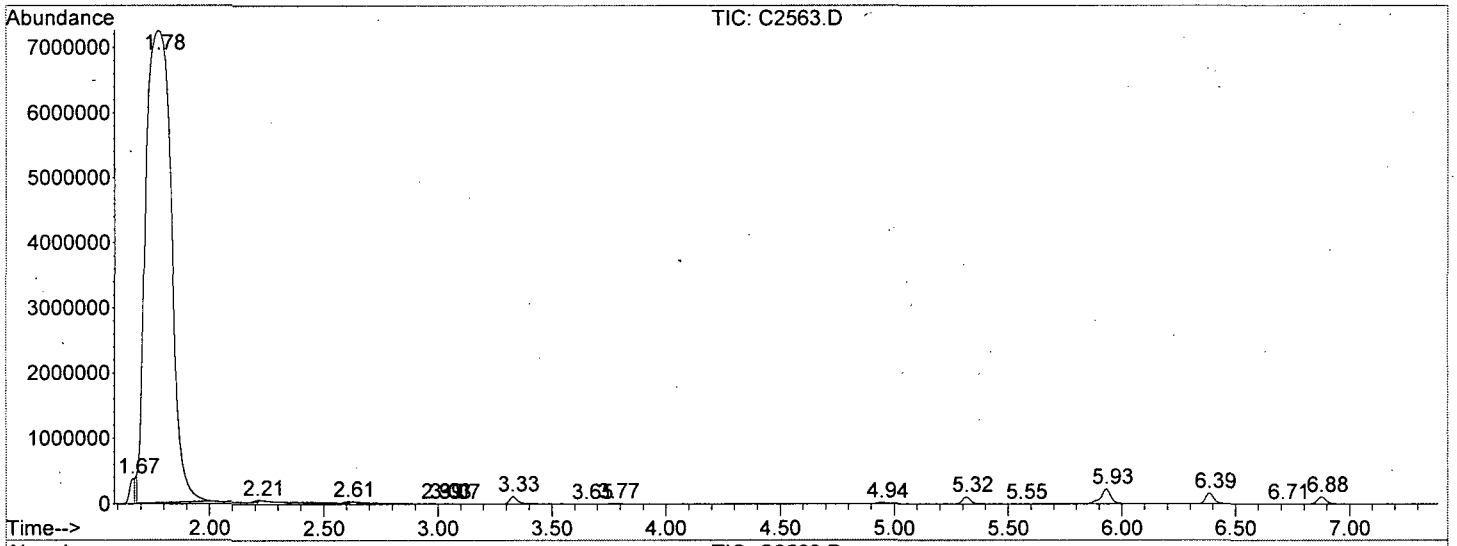
000000030

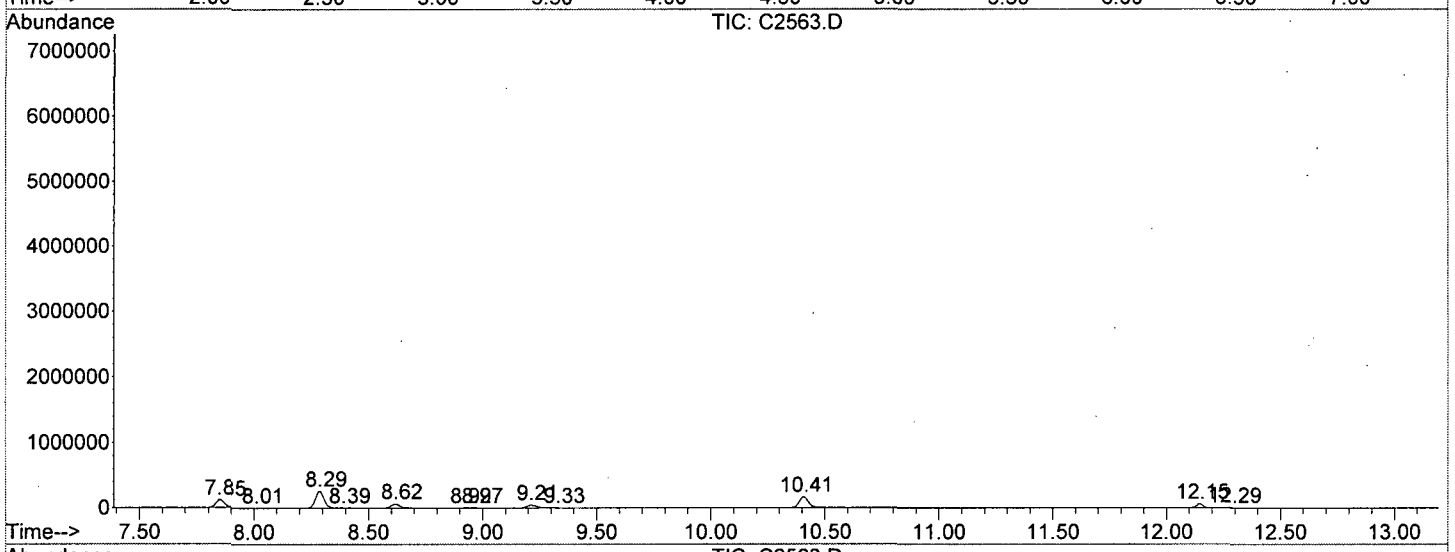
Sum of corrected areas: 61006527

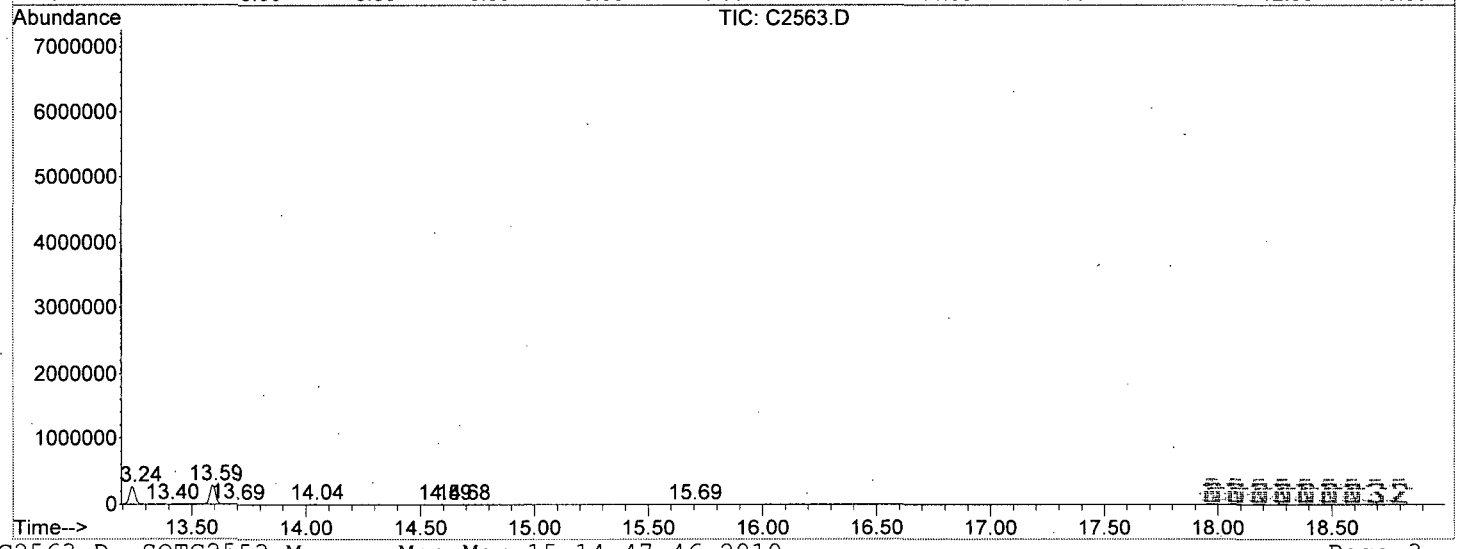
000000031

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2563.D Vial: 5
Acq On : 12 Mar 2010 14:30 Operator: SP
Sample : 0011765-03 Inst : C-5973
Misc : F3FX7 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2563.D
Acq On : 12 Mar 2010 14:30
Sample : 0011765-03
Misc : F3FX7 25ML
MS Integration Params: Lscint.p

Vial: 5
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

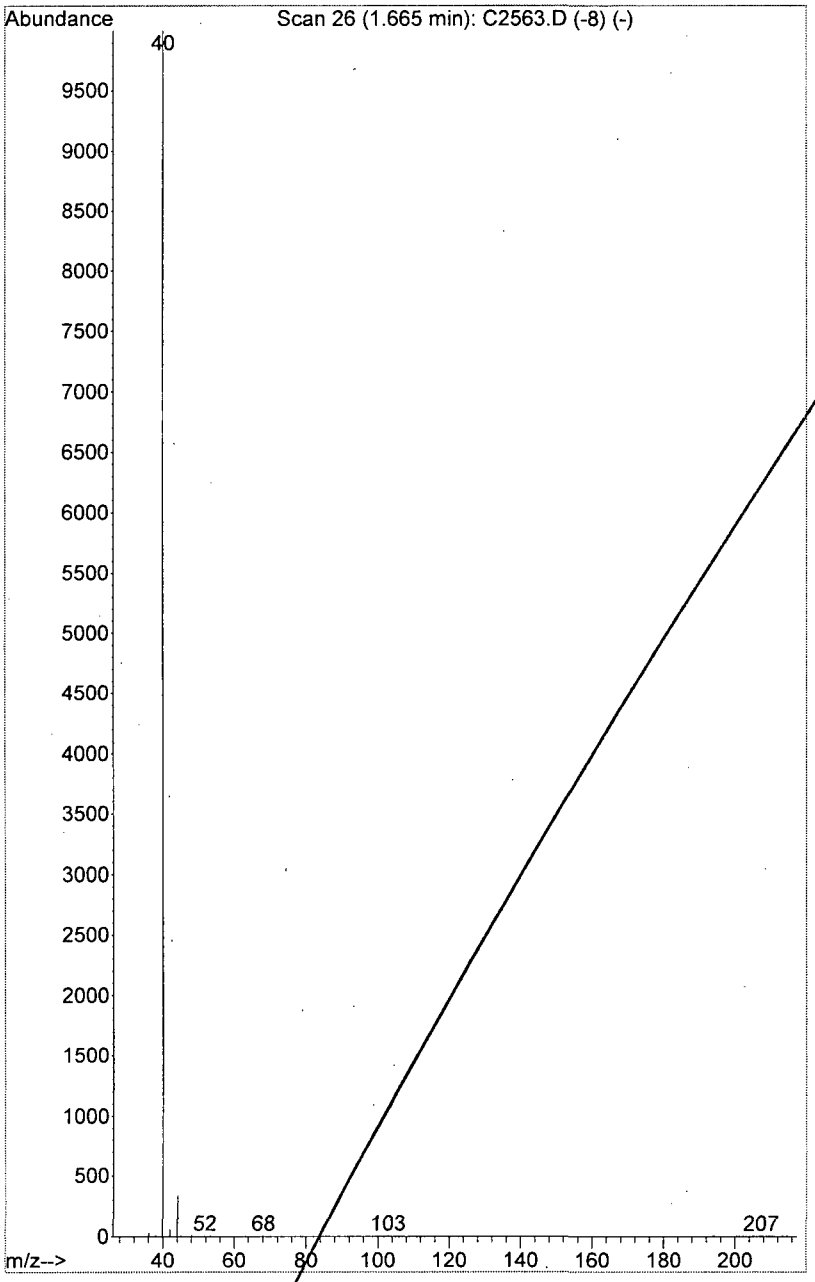
****

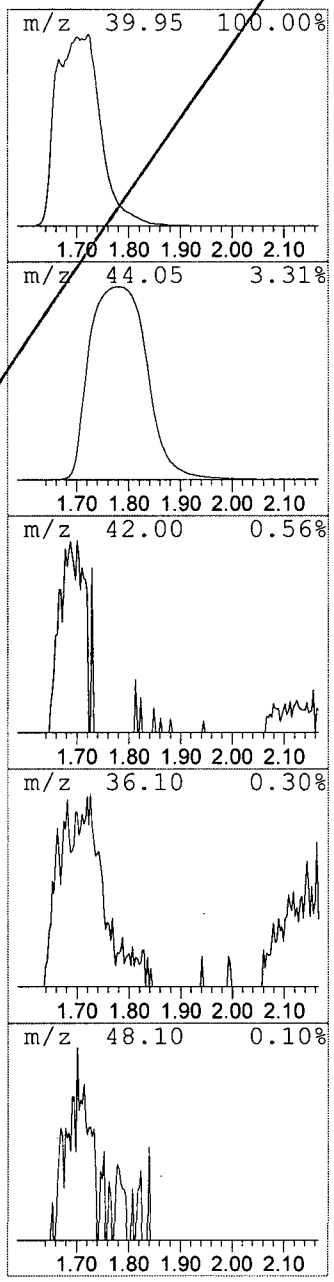
Peak Number 1 Unknown Concentration Rank 2

Co2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	6.74 ug/L	545062	1,4-Difluorobenzene	6.39

Hit# of 1	Tentative ID	MW	MolForm	CAS#	Qual
1	No Hits From C:\DATABASE\NIST02.L	0			0





000000033

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2563.D Vial: 5
Acq On : 12 Mar 2010 14:30 Operator: SP
Sample : 0011765-03 Inst : C-5973
Misc : F3FX7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

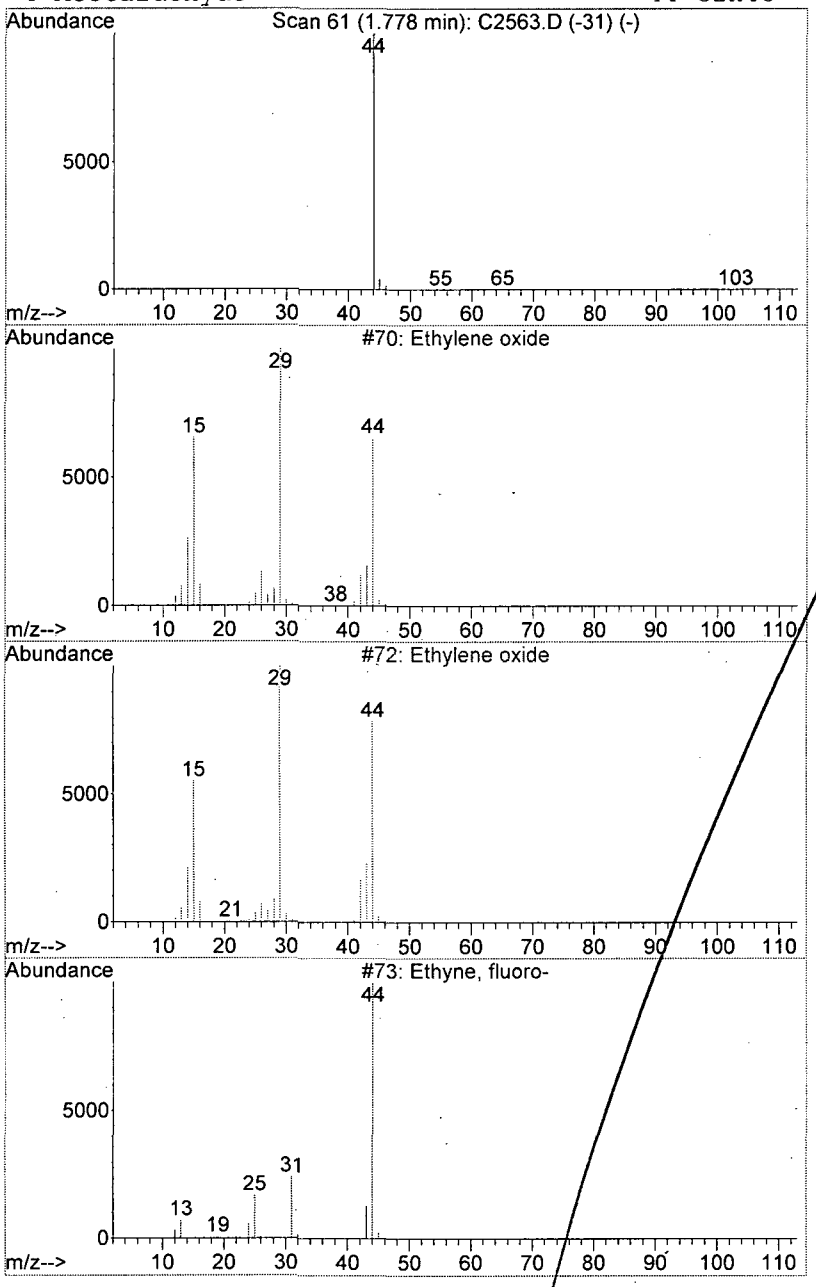
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

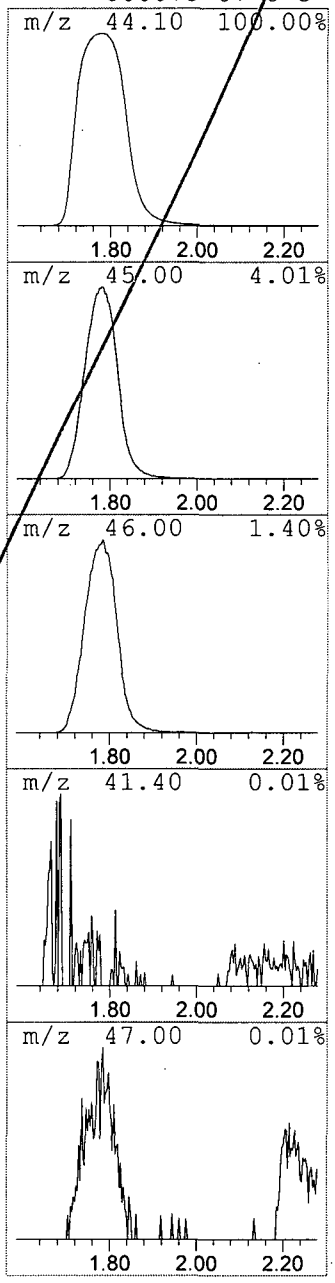
****

Peak Number 2 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	687.44 ug/L	55590300	1,4-Difluorobenzene	6.39

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





000000034

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2563.D Vial: 5
Acq On : 12 Mar 2010 14:30 Operator: SP
Sample : 0011765-03 Inst : C-5973
Misc : F3FX7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

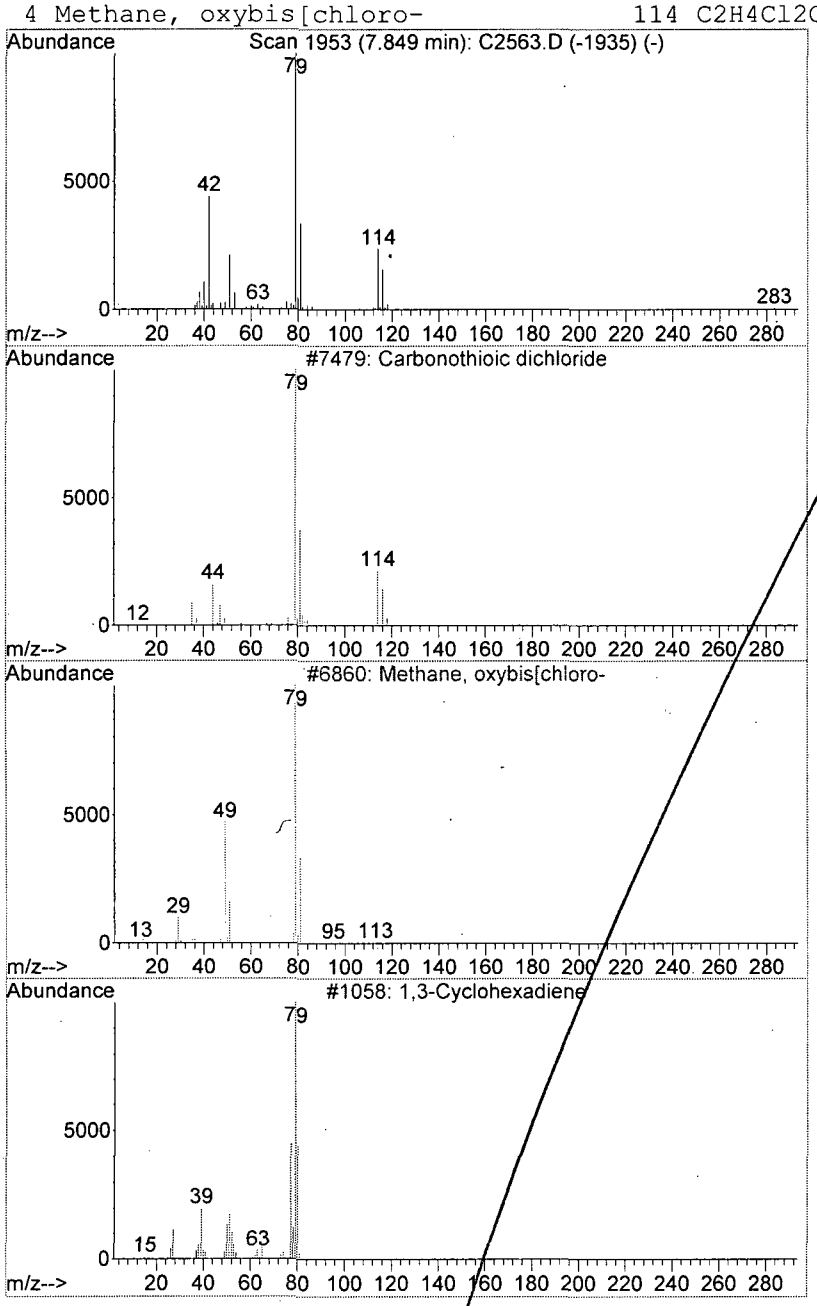
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

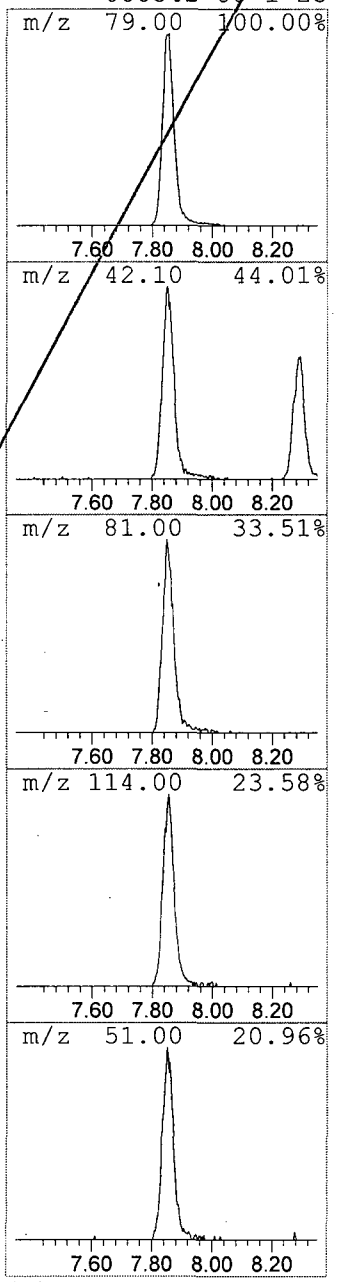
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.91 ug/L	316433	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	38
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	25





00000035

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 14:30
Data File: C:\MSDCHEM\1\DATA\C2563.D
Name: 0011765-03
Misc: F3FX7 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
No Hits From C:\D...	1.67	6.7	ug/L	545062	1	6.39	404328	5.0
Ethylene oxide	1.78	687.4	ug/L	55590300	1	6.39	404328	5.0
Carbonothioic dic...	7.85	3.9	ug/L	316433	1	6.39	404328	5.0

000000036

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

EPA SAMPLE NO.
F3FY1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2566.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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	0.23	J
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
79-01-6	Trichloroethene	6.5	

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

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

EPA SAMPLE NO.

F3FY1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2566.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2566.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 16:14:22 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	204706	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	173298	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	80510	5.0000 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	2.24	65	139569	5.9458 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 118.92%		
7) Chloroethane-d5	2.63	69	110161	5.5734 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 111.47%		
10) 1,1-Dichloroethene-d2	3.35	63	128062	4.6677 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 93.35%		
20) 2-Butanone-d5	4.95	46	35205	32.0540 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 64.11%		
24) Chloroform-d	5.32	84	119109	4.8263 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 96.53%		
26) 1,2-Dichloroethane-d4	5.90	65	48089	3.9445 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 78.89%		
32) Benzene-d6	5.94	84	298506	5.6890 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 113.78%		
35) 1,2-Dichloropropane-d6	6.88	67	74410	4.8392 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 96.78%		
41) Toluene-d8	8.29	98	295588	5.8490 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 116.98%		
43) trans-1,3-Dichloropropene-	8.62	79	57309	4.0854 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 81.71%		
47) 2-Hexanone-d5	9.21	63	26294	31.3453 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 62.69%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	35950	3.2240 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 64.48%#		
63) 1,2-Dichlorobenzene-d4	13.60	152	85975	5.0853 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 101.71%		
Target Compounds					Qvalue
18) Methyl tert-Butyl Ether	4.04	73	7188	0.2299 ug/L	99
34) Trichloroethene	6.73	95	91078	6.4623 ug/L	99

000000040

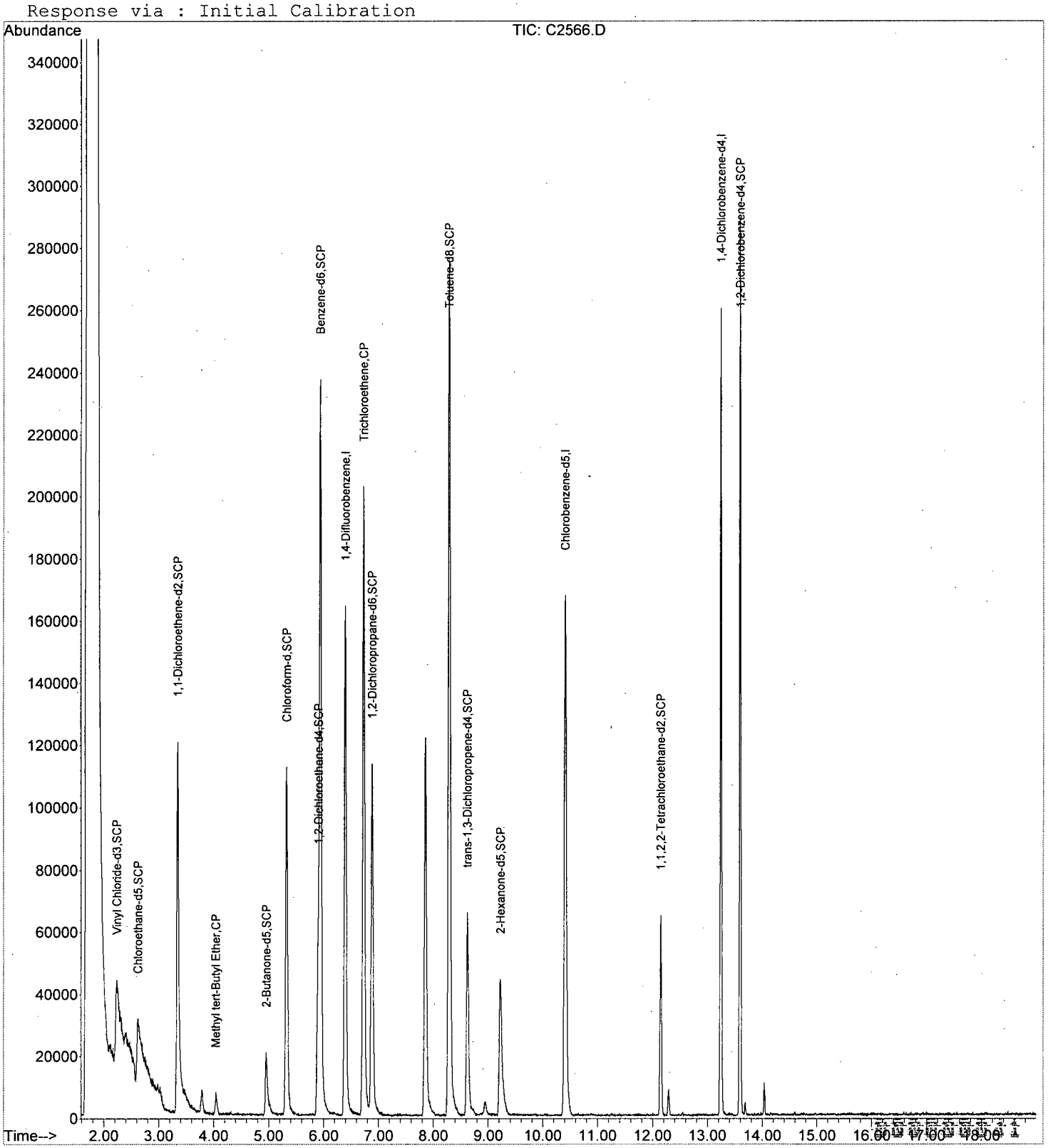
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

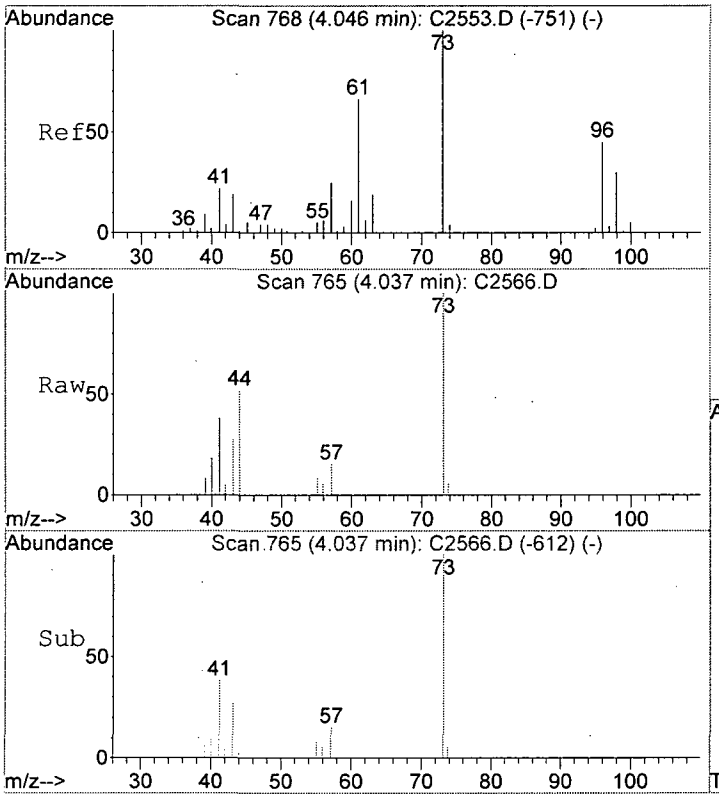
Data File : C:\MSDCHEM\1\DATA\C2566.D
Acq On : 12 Mar 2010 15:51
Sample : 0011765-06
Misc : F3FY1 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:23 2010

Vial: 8
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



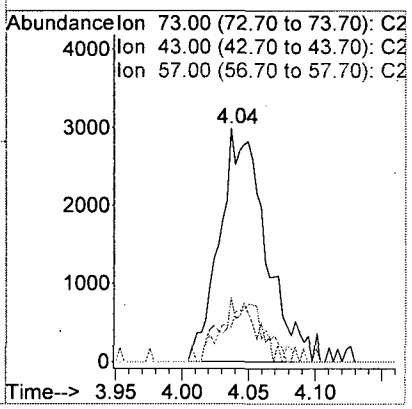
Data File : C:\MSDCHEM\1\DATA\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

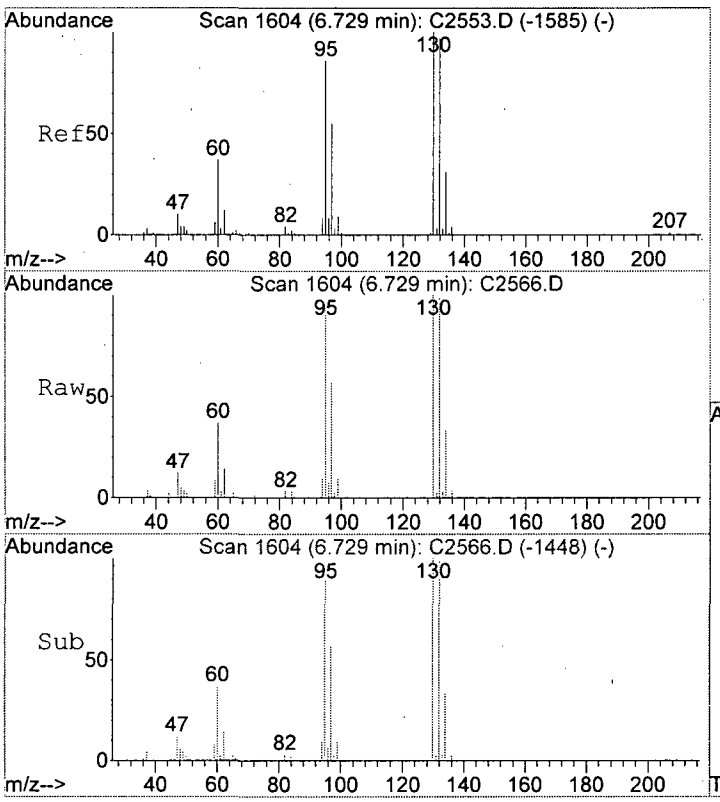


#18
Methyl tert-Butyl Ether
Concen: 0.2299 ug/L
RT: 4.04 min Scan# 765
Delta R.T. -0.01 min
Lab File: C2566.D
Acq: 12 Mar 2010 15:51

Tgt Ion: 73 Resp: 7188

Ion	Ratio	Lower	Upper
73	100		
43	20.0	0.0	39.9
57	22.0	2.7	42.7

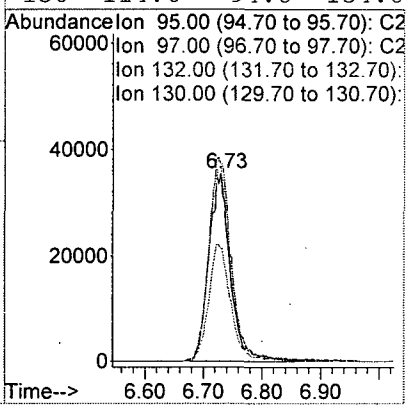




#34
Trichloroethene
Concen: 6.4623 ug/L
RT: 6.73 min Scan# 1604
Delta R.T. 0.00 min
Lab File: C2566.D
Acq: 12 Mar 2010 15:51

Tgt Ion: 95 Resp: 91078

Ion	Ratio	Lower	Upper
95	100		
97	63.9	43.8	83.8
132	109.5	91.3	131.3
130	114.6	94.8	134.8



000000042

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

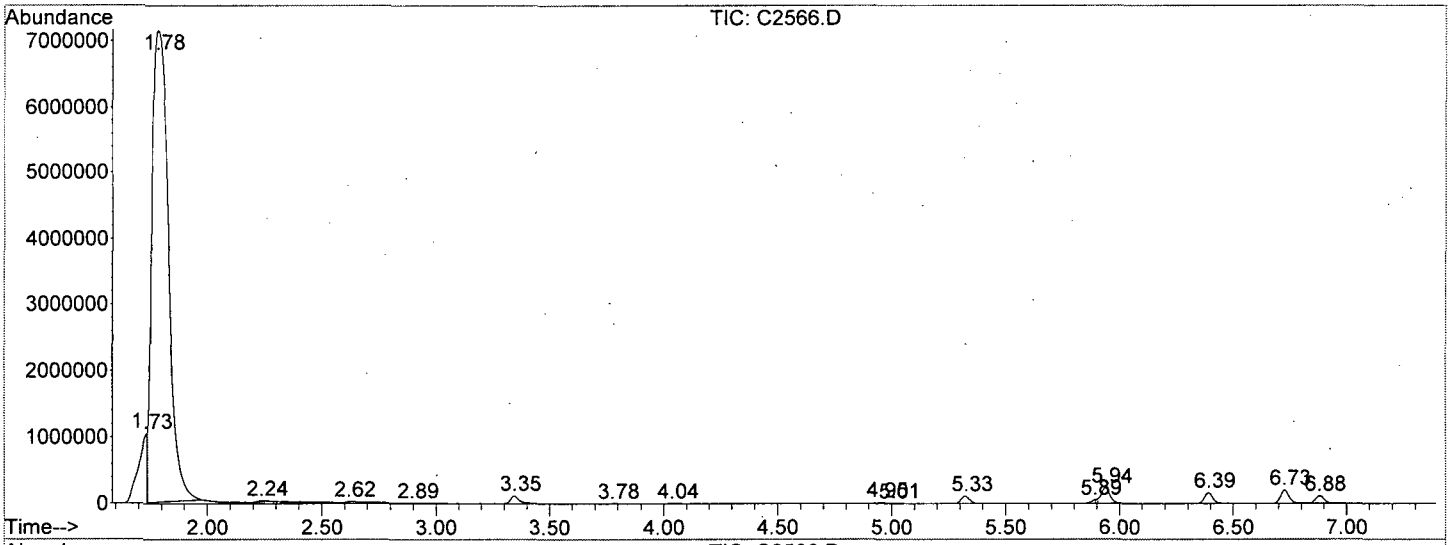
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.733	16	47	48	rBV2	1056140	2708857	7.62%	6.202%
2	1.784	49	63	123	rVB	7128505	35536045	100.00%	81.366%
3	2.237	195	204	208	rBV3	22296	41535	0.12%	0.095%
4	2.618	313	323	324	rBV8	20267	23102	0.07%	0.053%
5	2.894	407	409	410	rBV2	2471	1097	0.00%	0.003%
6	3.347	534	550	569	rBV	119198	299491	0.84%	0.686%
7	3.777	674	684	685	rBV6	6926	6379	0.02%	0.015%
8	4.037	758	765	767	rBV3	6453	6056	0.02%	0.014%
9	4.955	1039	1051	1052	rBV	19910	25199	0.07%	0.058%
10	5.009	1066	1068	1072	rVB2	2024	1102	0.00%	0.003%
11	5.327	1149	1167	1189	rBV2	111896	288021	0.81%	0.659%
12	5.891	1329	1343	1344	rBV2	55610	65414	0.18%	0.150%
13	5.940	1347	1358	1384	rVB	233978	617212	1.74%	1.413%
14	6.392	1483	1499	1521	rBV3	163607	416888	1.17%	0.955%
15	6.726	1585	1603	1624	rBV3	202427	515661	1.45%	1.181%
16	6.880	1635	1651	1670	rBV4	110540	289845	0.82%	0.664%
17	7.855	1937	1955	1976	rBV3	121813	331482	0.93%	0.759%
18	7.939	1979	1981	1986	rVB3	2150	1519	0.00%	0.003%
19	8.289	2072	2090	2114	rBV	276096	731513	2.06%	1.675%
20	8.619	2176	2193	2214	rBV3	65534	170232	0.48%	0.390%
21	8.940	2289	2293	2295	rBV2	2413	2339	0.01%	0.005%
22	8.953	2295	2297	2300	rVB2	2193	1257	0.00%	0.003%
23	9.210	2364	2377	2378	rBV	43166	47555	0.13%	0.109%
24	9.338	2415	2417	2422	rVB3	1376	1117	0.00%	0.003%
25	10.410	2731	2751	2770	rBV2	167258	471193	1.33%	1.079%
26	12.146	3281	3292	3306	rBV2	64397	121958	0.34%	0.279%
27	12.290	3328	3337	3346	rBV5	8552	14555	0.04%	0.033%
28	13.243	3619	3634	3652	rBV2	259722	443554	1.25%	1.016%
29	13.593	3730	3743	3757	rBV	288716	475958	1.34%	1.090%
30	13.689	3768	3773	3780	rBV5	3821	3963	0.01%	0.009%
31	14.036	3871	3881	3889	rBV2	10403	14128	0.04%	0.032%

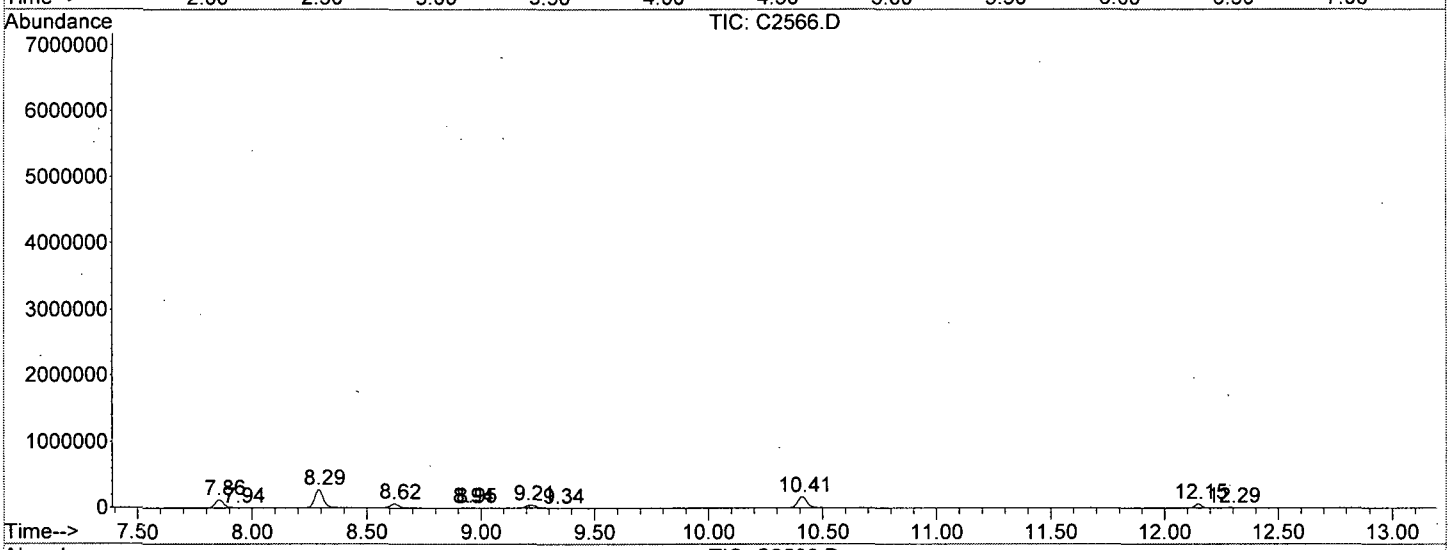
Sum of corrected areas: 43674227

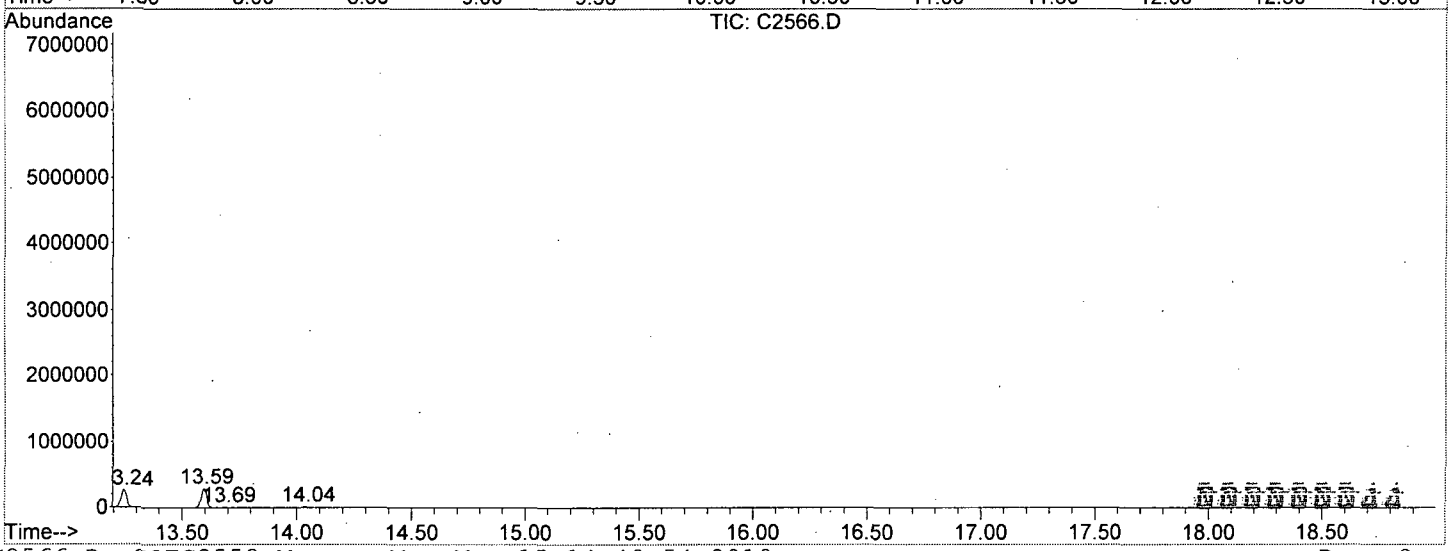
000000043

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

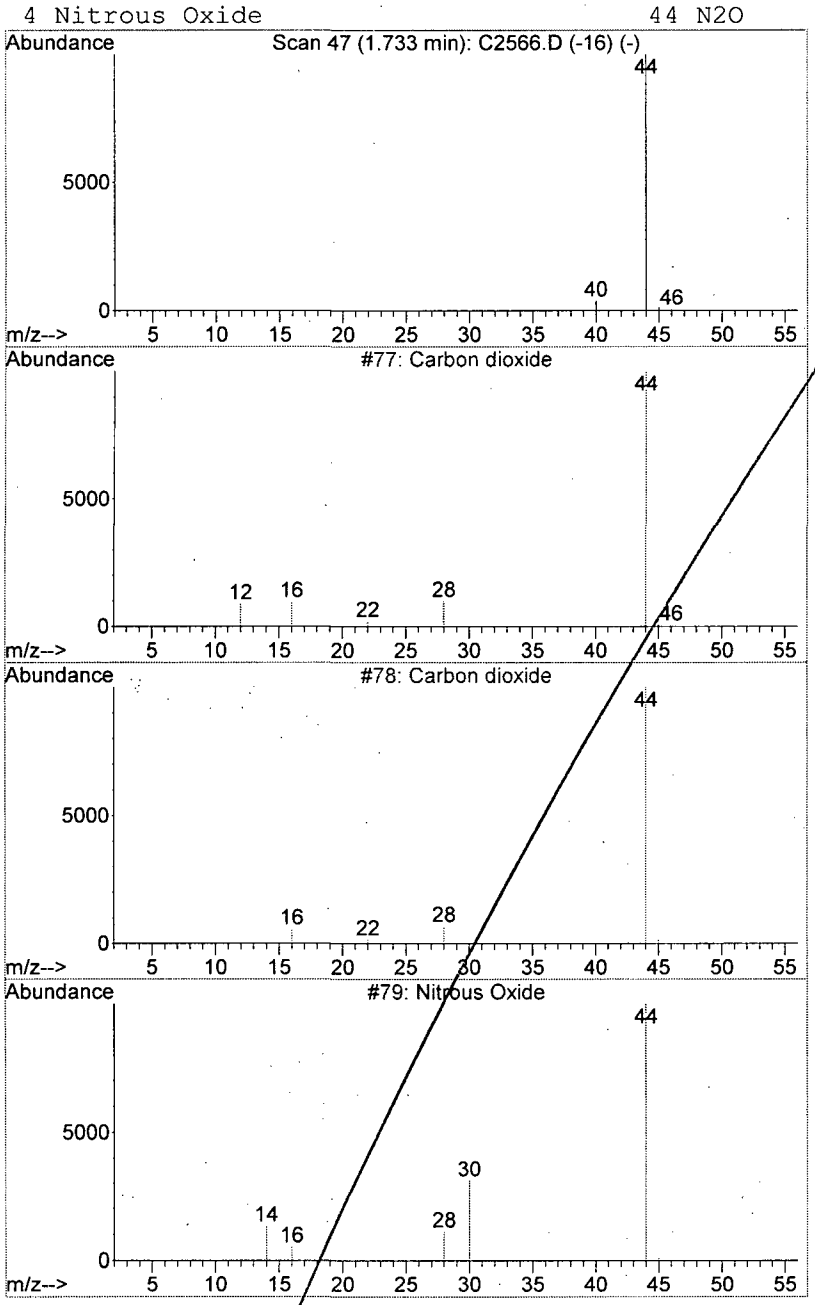
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

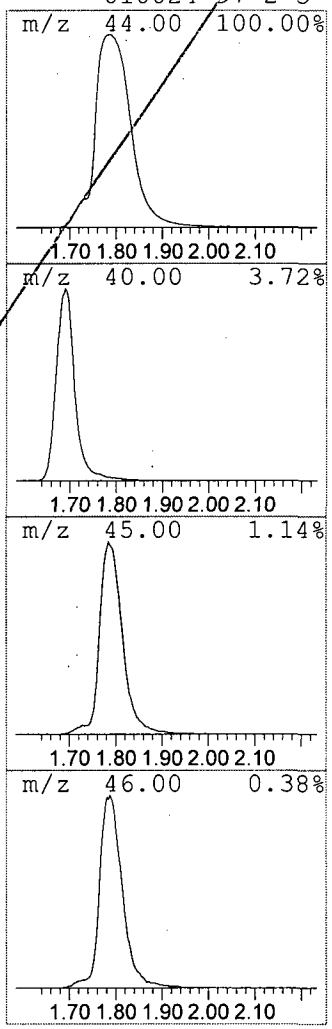
****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.73	32.49 ug/L	2708860	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	3
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3





00000045

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

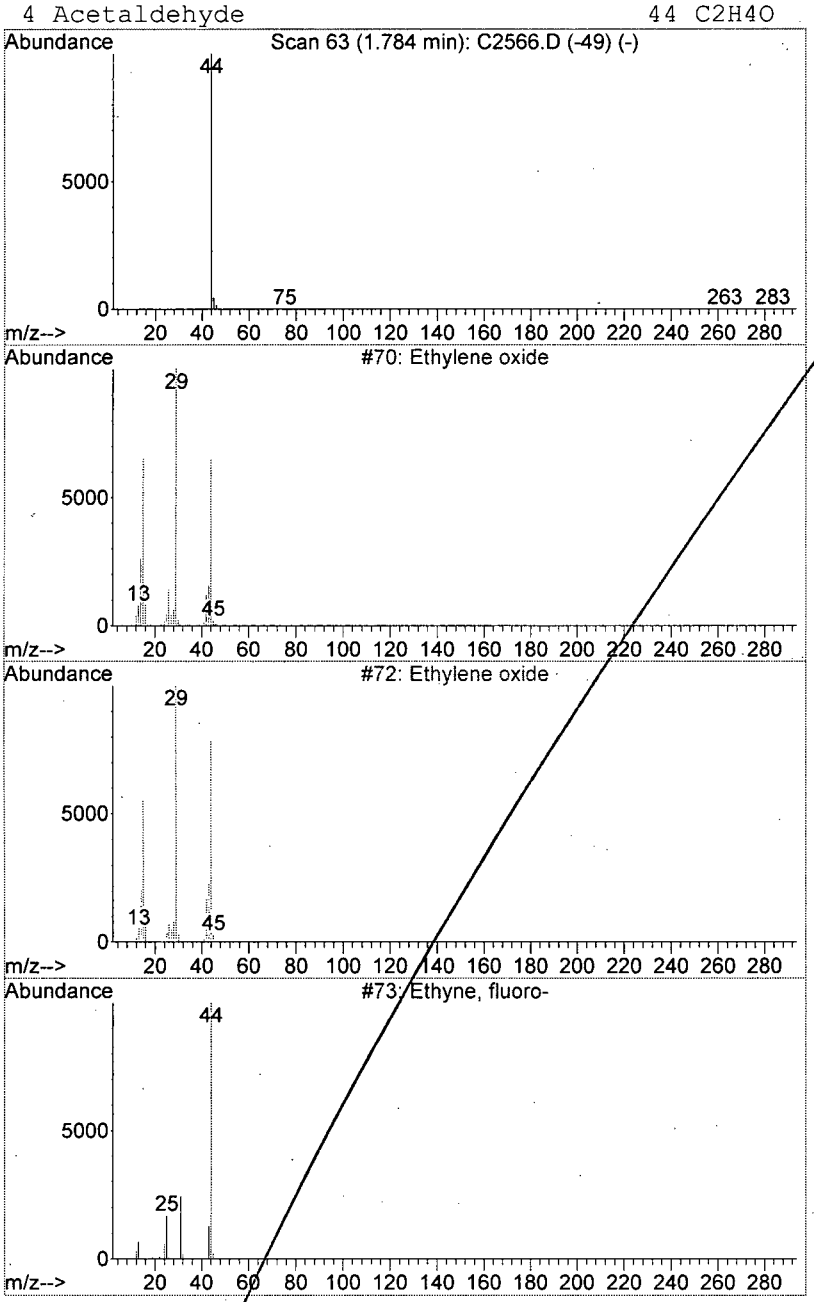
****

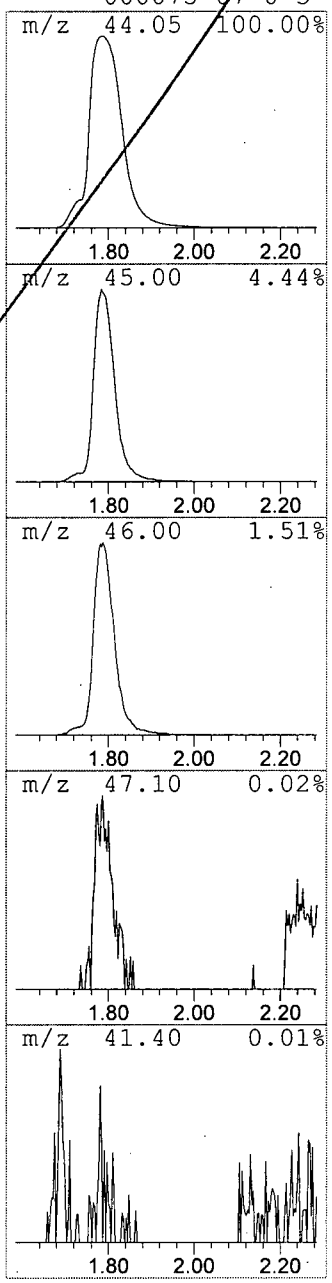
Peak Number 2 Ethylene oxide Concentration Rank 1

Cor

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	426.21 ug/L	35536000	1,4-Difluorobenzene	6.39

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





00000046

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2566.D Vial: 8
Acq On : 12 Mar 2010 15:51 Operator: SP
Sample : 0011765-06 Inst : C-5973
Misc : F3FY1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

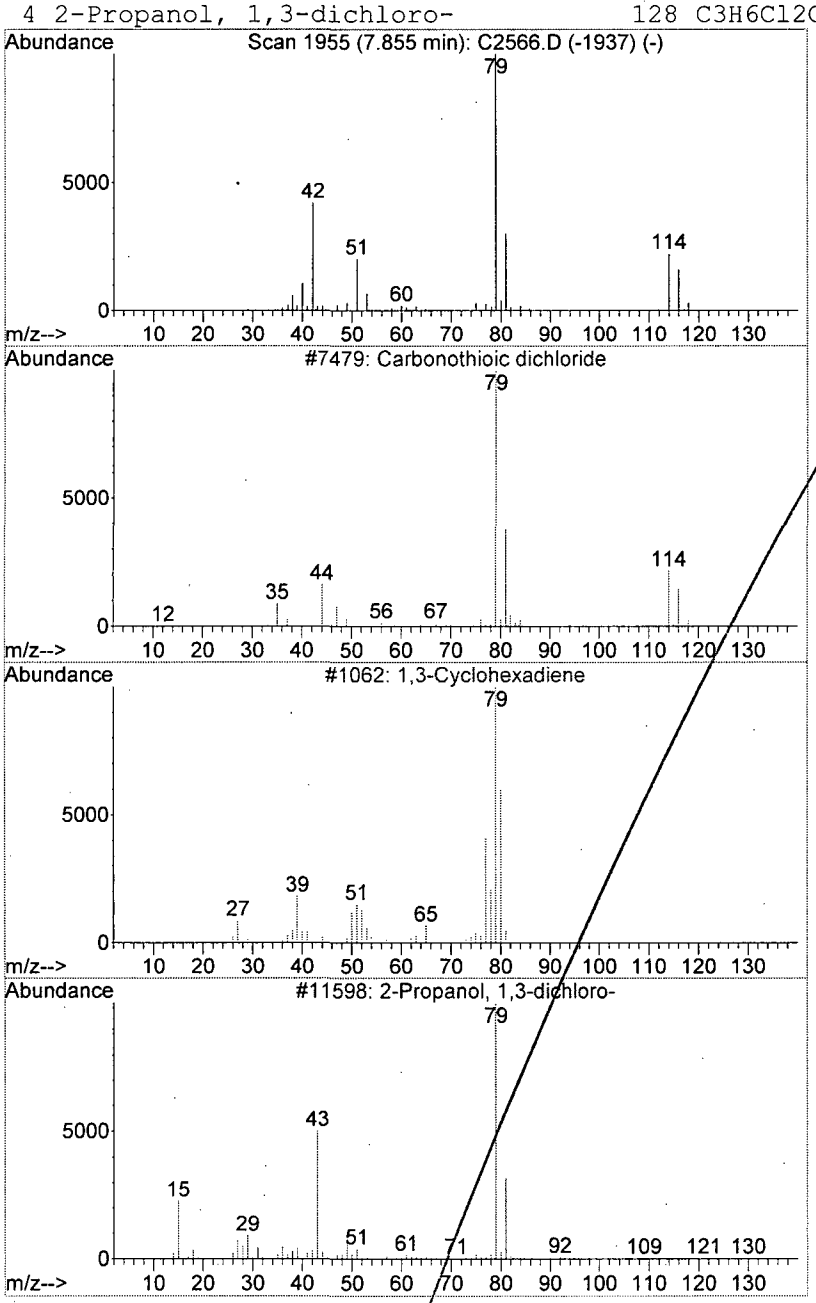
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

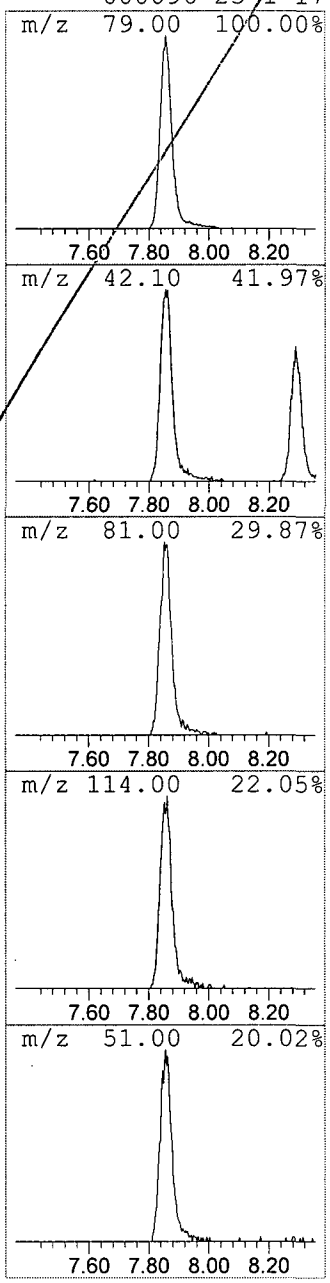
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.98 ug/L	331482	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	50
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17





000000647

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 15:51
Data File: C:\MSDCHEM\1\DATA\C2566.D
Name: 0011765-06
Misc: F3FY1 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Carbon dioxide	1.73	32.5	ug/L	2708860	1	6.39	416888	5.0
Ethylene oxide	1.78	426.2	ug/L	35536000	1	6.39	416888	5.0
Carbonothioic dic...	7.86	4.0	ug/L	331482	1	6.39	416888	5.0

000000048

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

EPA SAMPLE NO.
F3FY2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-07

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2567.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.

F3FY2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-07

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2567.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-07

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2567.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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\C2567.D Vial: 9
Acq On : 12 Mar 2010 16:19 Operator: SP
Sample : 0011765-07 Inst : C-5973
Misc : F3FY2 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 17:14:57 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	198651	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	167910	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	77945	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	135778	5.9606 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 119.21%		
7) Chloroethane-d5	2.62	69	105412	5.4956 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 109.91%		
10) 1,1-Dichloroethene-d2	3.34	63	122242	4.5914 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 91.83%		
20) 2-Butanone-d5	4.95	46	35279	33.1005 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 66.20%		
24) Chloroform-d	5.32	84	112194	4.6847 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 93.69%		
26) 1,2-Dichloroethane-d4	5.89	65	45361	3.8342 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 76.68%#		
32) Benzene-d6	5.94	84	287819	5.6613 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 113.23%		
35) 1,2-Dichloropropane-d6	6.88	67	70740	4.7482 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 94.96%		
41) Toluene-d8	8.29	98	276609	5.6491 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 112.98%		
43) trans-1,3-Dichloropropene-	8.62	79	53333	3.9239 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 78.48%		
47) 2-Hexanone-d5	9.22	63	26124	32.1420 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 64.28%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	35184	3.2566 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 65.13%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	81814	4.9984 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 99.97%		

Target Compounds Qvalue

000000052

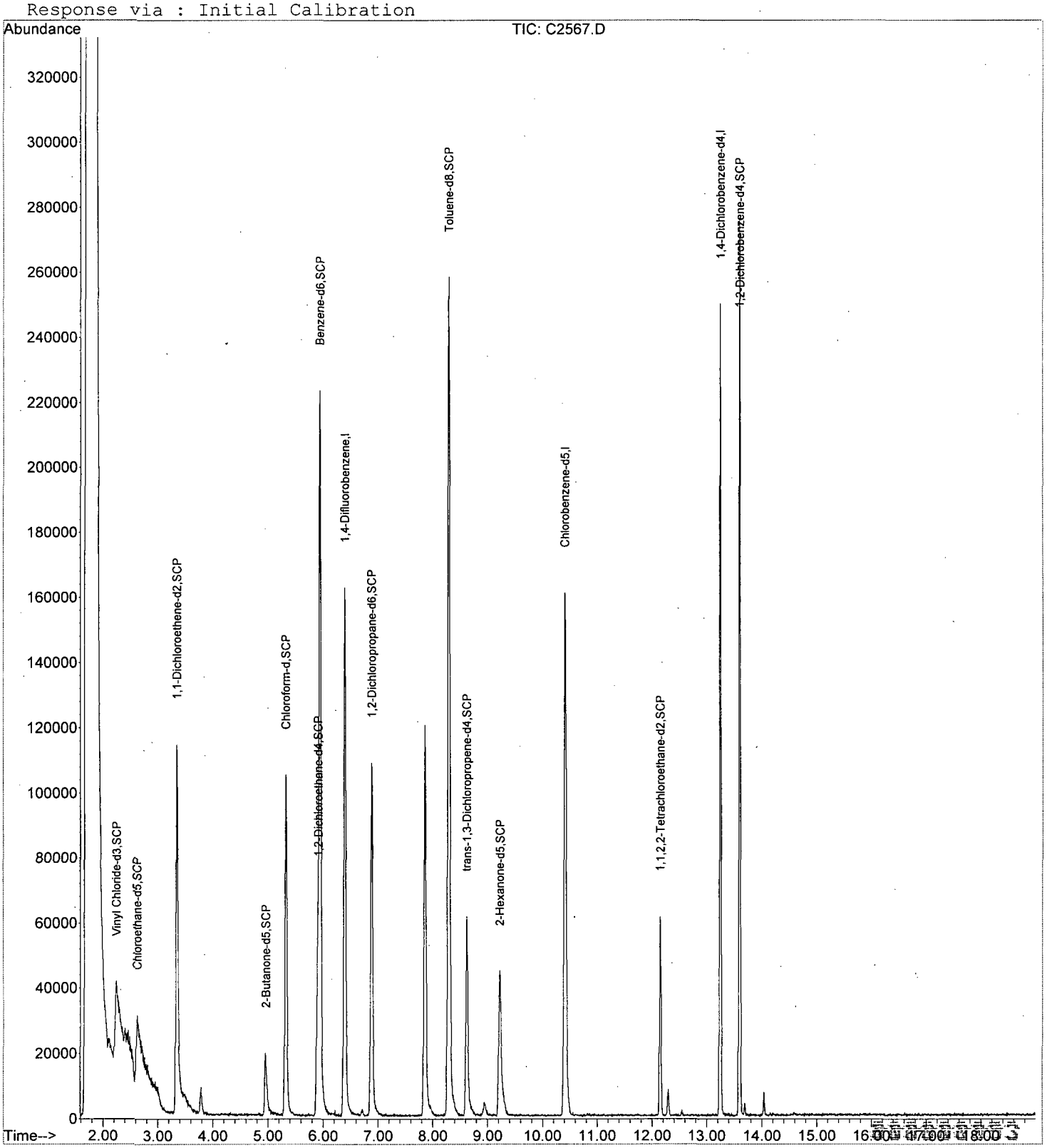
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2567.D
Acq On : 12 Mar 2010 16:19
Sample : 0011765-07
Misc : F3FY2 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:24 2010

Vial: 9
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2567.D Vial: 9
Acq On : 12 Mar 2010 16:19 Operator: SP
Sample : 0011765-07 Inst : C-5973
Misc : F3FY2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

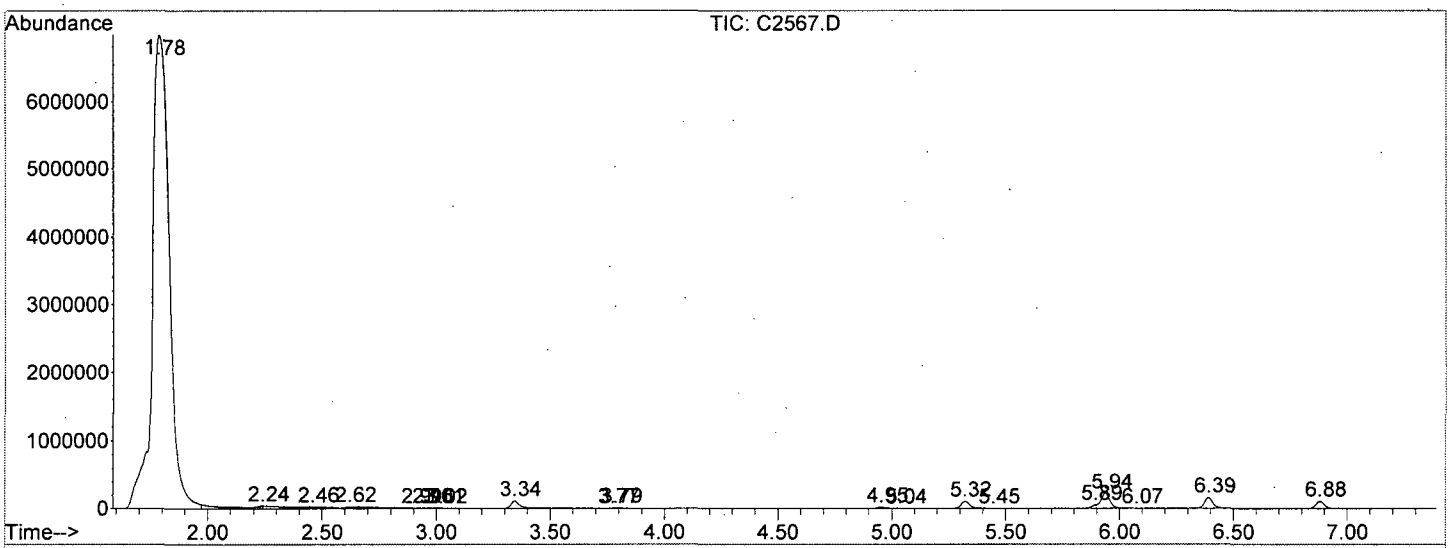
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.784	14	63	122	rBV	6970184	35975531	100.00%	88.181%
2	2.240	195	205	206	rBV2	18438	26190	0.07%	0.064%
3	2.458	271	273	275	rVB2	4371	1412	0.00%	0.003%
4	2.622	315	324	329	rBV4	18209	33159	0.09%	0.081%
5	2.910	412	414	417	rBV3	1947	1097	0.00%	0.003%
6	2.959	427	429	432	rVB2	2755	1138	0.00%	0.003%
7	3.007	442	444	446	rVB3	2709	1223	0.00%	0.003%
8	3.020	446	448	453	rVB3	2436	1548	0.00%	0.004%
9	3.344	535	549	565	rBV	112925	273470	0.76%	0.670%
10	3.774	679	683	684	rBV3	4733	3661	0.01%	0.009%
11	3.786	684	687	689	rVB3	3190	2343	0.01%	0.006%
12	4.955	1035	1051	1064	rBV2	19204	50173	0.14%	0.123%
13	5.038	1075	1077	1081	rVB2	1731	1301	0.00%	0.003%
14	5.320	1148	1165	1188	rBV3	104854	267485	0.74%	0.656%
15	5.445	1201	1204	1212	rVB3	879	1059	0.00%	0.003%
16	5.895	1329	1344	1345	rBV2	55198	71083	0.20%	0.174%
17	5.940	1345	1358	1385	rVB3	220477	611737	1.70%	1.499%
18	6.074	1399	1400	1405	rVB2	1996	1081	0.00%	0.003%
19	6.392	1482	1499	1522	rBV	162108	404550	1.12%	0.992%
20	6.880	1634	1651	1673	rBV3	108182	283912	0.79%	0.696%
21	7.855	1936	1955	1975	rBV3	120012	314669	0.87%	0.771%
22	8.292	2074	2091	2109	rBV	256685	673735	1.87%	1.651%
23	8.619	2177	2193	2210	rBV3	61113	157814	0.44%	0.387%
24	8.908	2276	2283	2284	rBV2	1187	1177	0.00%	0.003%
25	9.222	2363	2381	2399	rBV3	44492	143901	0.40%	0.353%
26	10.410	2729	2751	2780	rBV3	160572	463543	1.29%	1.136%
27	12.146	3279	3292	3308	rBV2	60893	116816	0.32%	0.286%
28	12.290	3327	3337	3346	rBV4	7734	13432	0.04%	0.033%
29	13.243	3620	3634	3648	rBV2	249513	428506	1.19%	1.050%
30	13.593	3731	3743	3756	rBV2	275775	454174	1.26%	1.113%
31	13.692	3767	3774	3780	rVB5	3837	4992	0.01%	0.012%
32	14.039	3873	3882	3891	rBV3	7069	9214	0.03%	0.023%
33	14.148	3910	3916	3921	rVB2	1071	1017	0.00%	0.002%
34	14.588	4049	4053	4057	rBV4	1075	1151	0.00%	0.003%

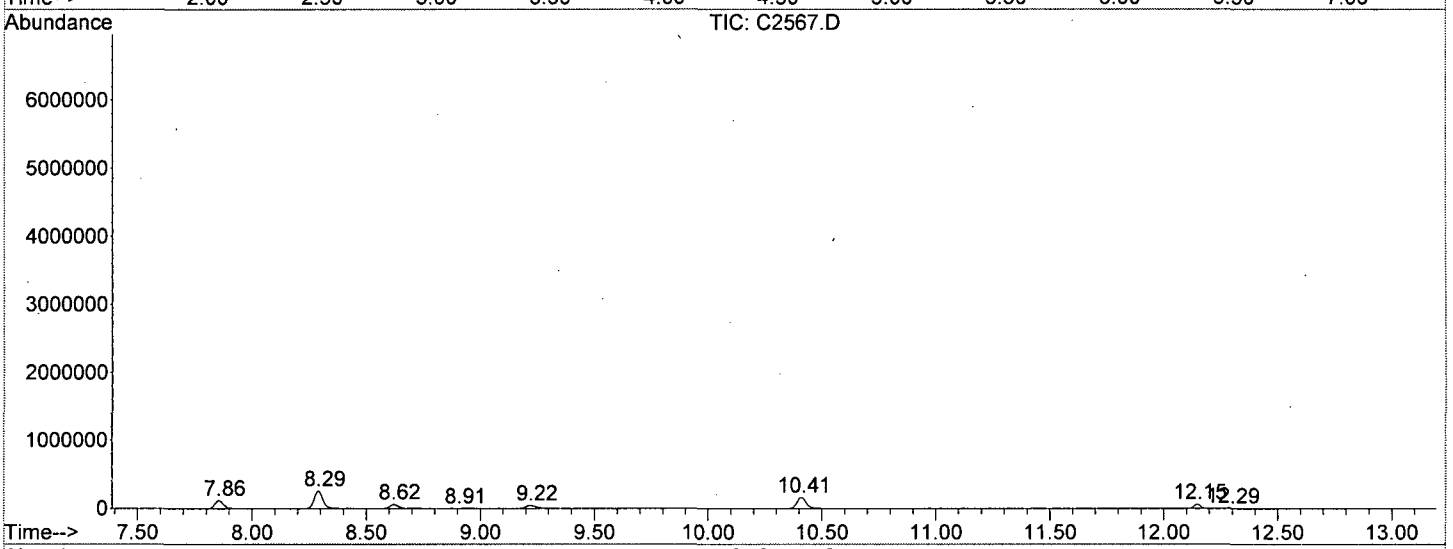
Sum of corrected areas: 40797294

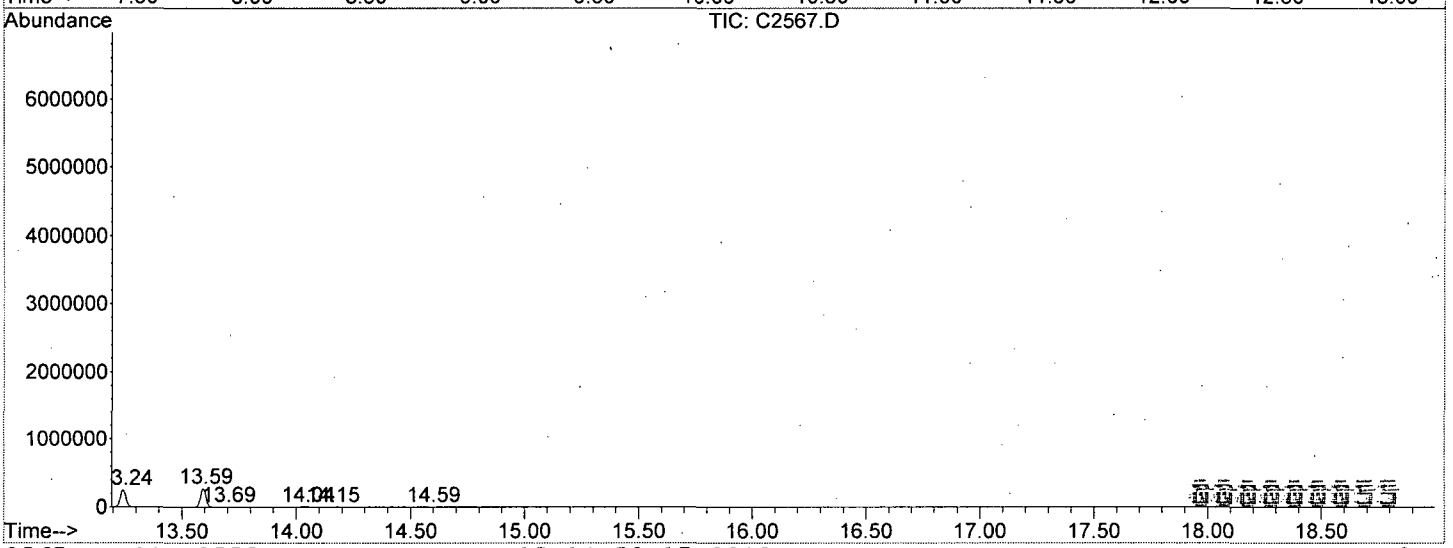
000000054

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2567.D Vial: 9
Acq On : 12 Mar 2010 16:19 Operator: SP
Sample : 0011765-07 Inst : C-5973
Misc : F3FY2 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2567.D Vial: 9
Acq On : 12 Mar 2010 16:19 Operator: SP
Sample : 0011765-07 Inst : C-5973
Misc : F3FY2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

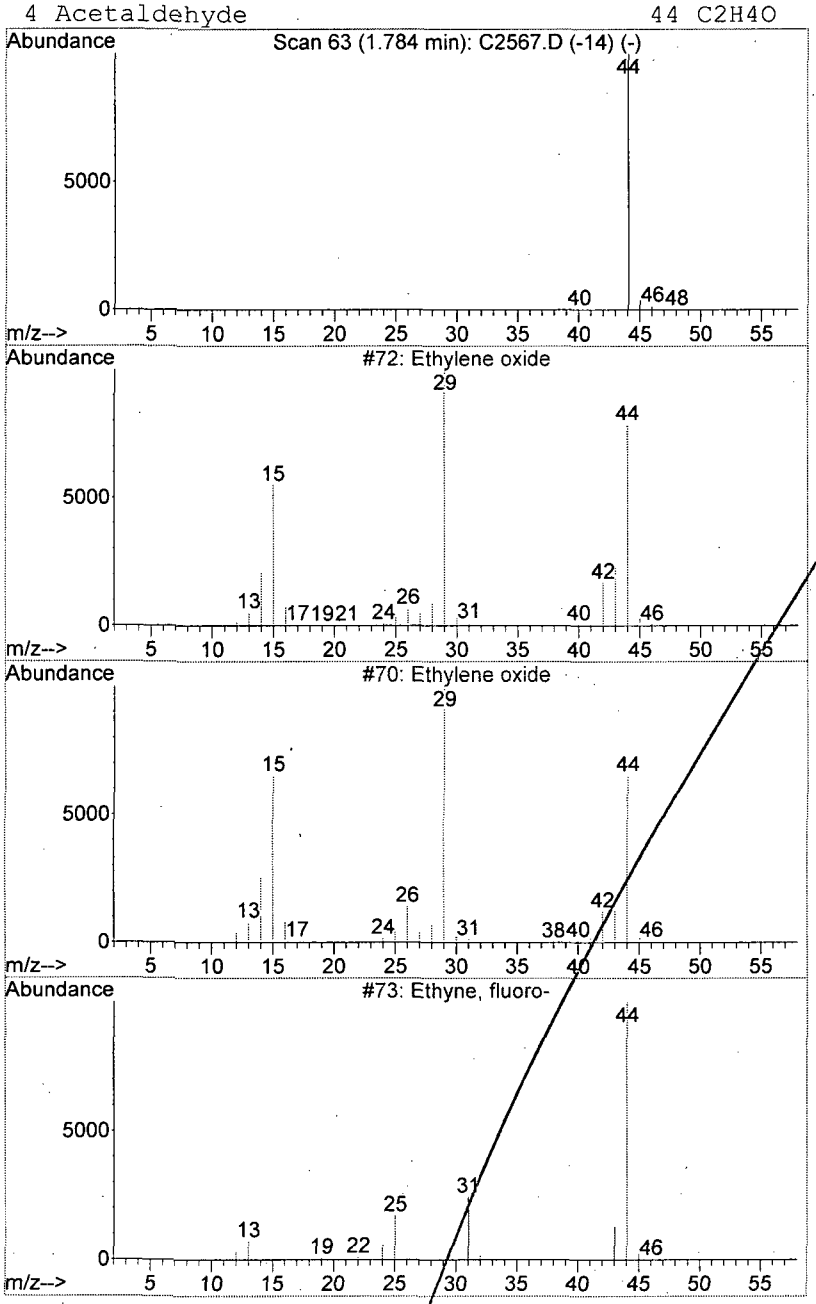
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

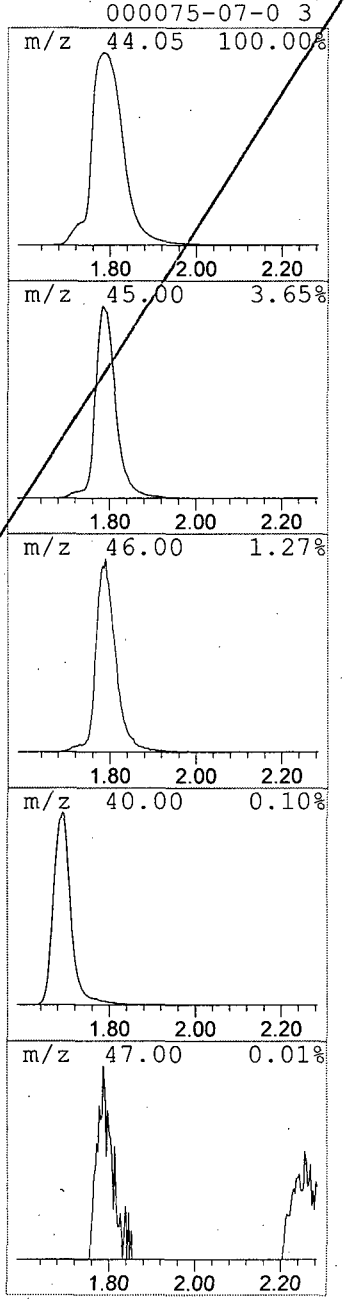
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	444.64 ug/L	35975500	1,4-Difluorobenzene	6.39

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	4
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





000000056

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2567.D Vial: 9
Acq On : 12 Mar 2010 16:19 Operator: SP
Sample : 0011765-07 Inst : C-5973
Misc : F3FY2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

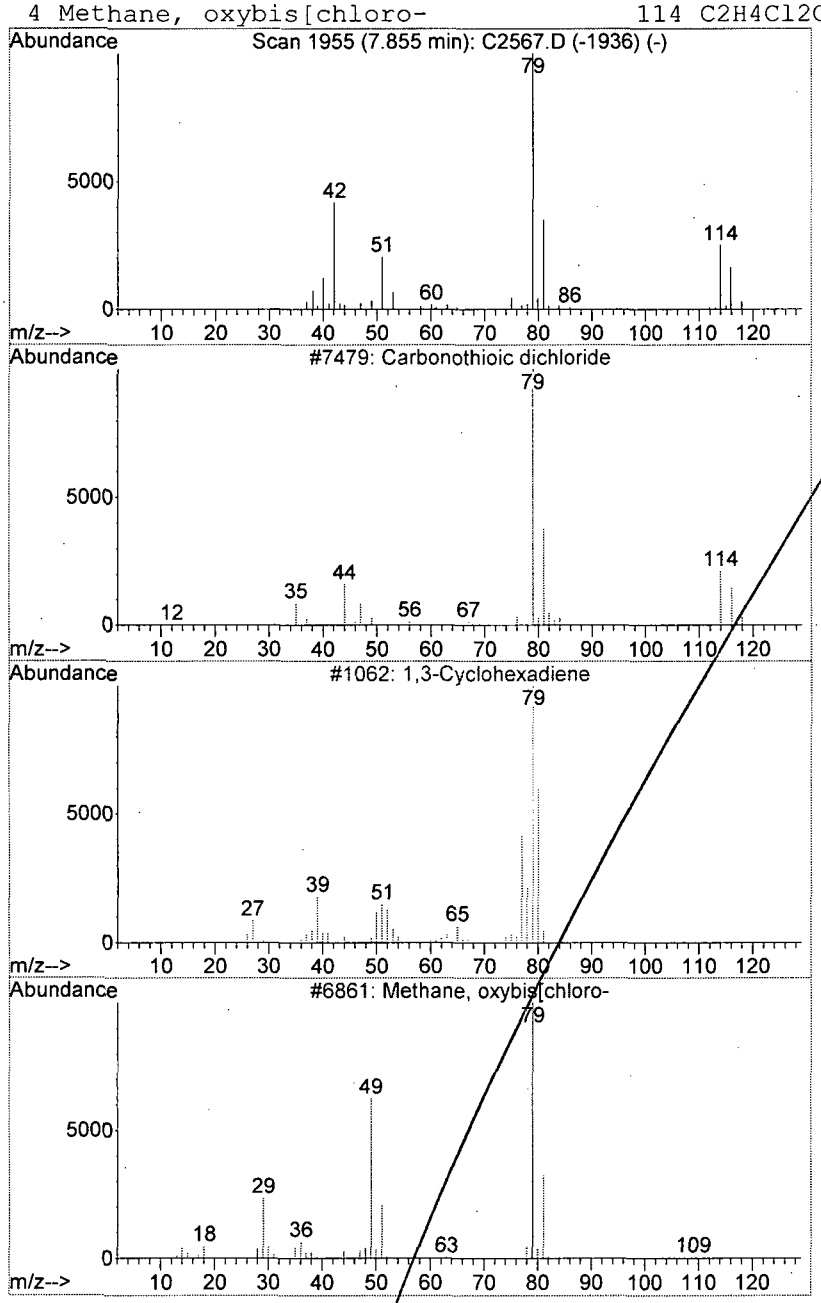
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

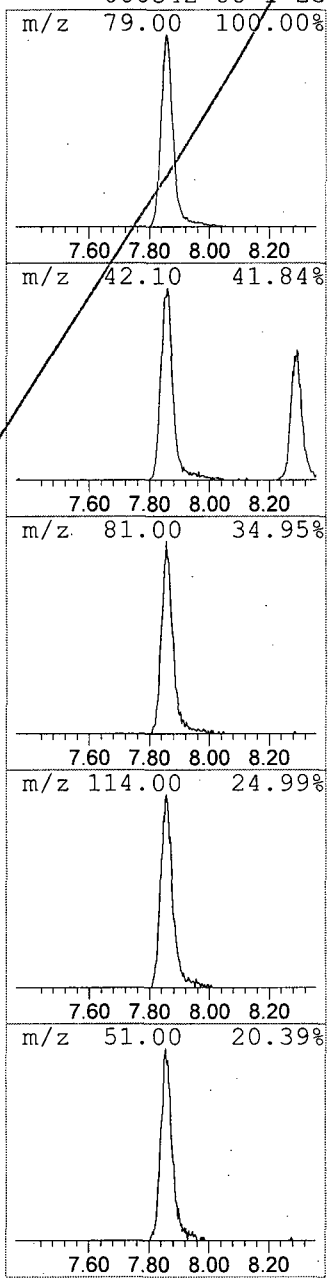
****

Peak Number 2 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.89 ug/L	314669	1,4-Difluorobenzene	6.39

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	37
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25





000000057

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 16:19
Data File: C:\MSDCHEM\1\DATA\C2567.D
Name: 0011765-07
Misc: F3FY2 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylene oxide	1.78	444.6	ug/L	35975500	1	6.39	404550	5.0
Carbonothioic dic...	7.86	3.9	ug/L	314669	1	6.39	404550	5.0

00000056

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

EPA SAMPLE NO.
F3FY3

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-08

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2560.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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	0.76	
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
79-01-6	Trichloroethene	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.
F3FY3

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-08

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2560.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY3

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-08

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2560.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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.

000000081

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2560.D Vial: 2
Acq On : 12 Mar 2010 12:45 Operator: SP
Sample : 0011765-08 Inst : C-5973
Misc : F3FY3 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 13:36:37 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.40	114	215488	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	178473	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	78133	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.24	65	147160	5.9555 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 119.11%		
7) Chloroethane-d5	2.64	69	114270	5.4920 ug/L	0.02
Spiked Amount 5.0000	Range 71 - 131		Recovery = 109.84%		
10) 1,1-Dichloroethene-d2	3.35	63	131450	4.5514 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 91.03%		
20) 2-Butanone-d5	4.95	46	34717	30.0281 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 60.06%		
24) Chloroform-d	5.32	84	122813	4.7274 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 94.55%		
26) 1,2-Dichloroethane-d4	5.90	65	47997	3.7400 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 74.80%#		
32) Benzene-d6	5.94	84	314348	5.8172 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 116.34%		
35) 1,2-Dichloropropane-d6	6.88	67	76542	4.8335 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 96.67%		
41) Toluene-d8	8.29	98	302566	5.8135 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 116.27%		
43) trans-1,3-Dichloropropene-	8.62	79	59429	4.1137 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 82.27%		
47) 2-Hexanone-d5	9.22	63	26524	30.7027 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 61.41%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	35602	3.1003 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 62.01%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	81368	4.9592 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 99.18%		

Target Compounds					Qvalue
16) Methylene Chloride	3.79	84	14067	0.7623 ug/L	98

000000062

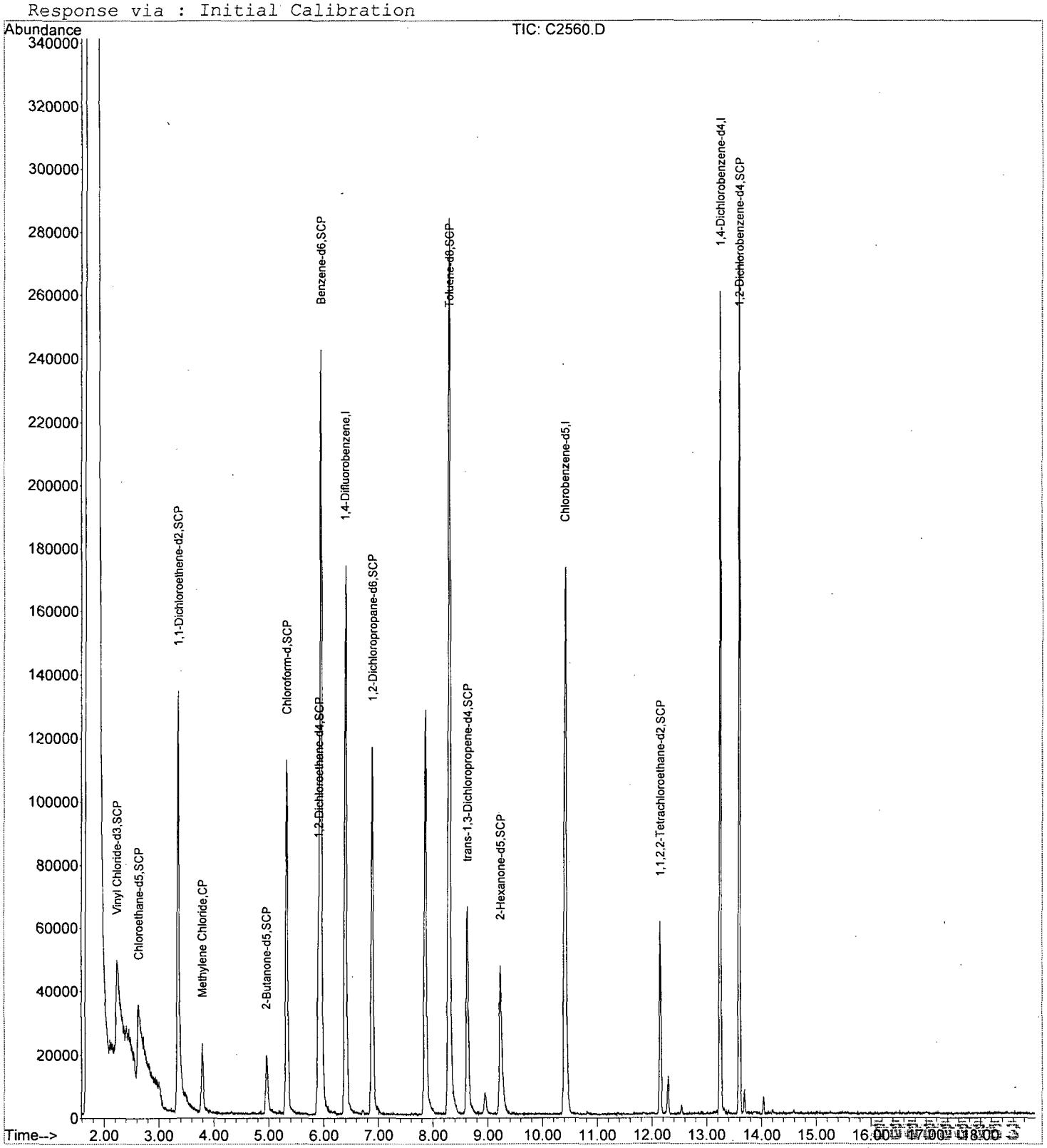
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

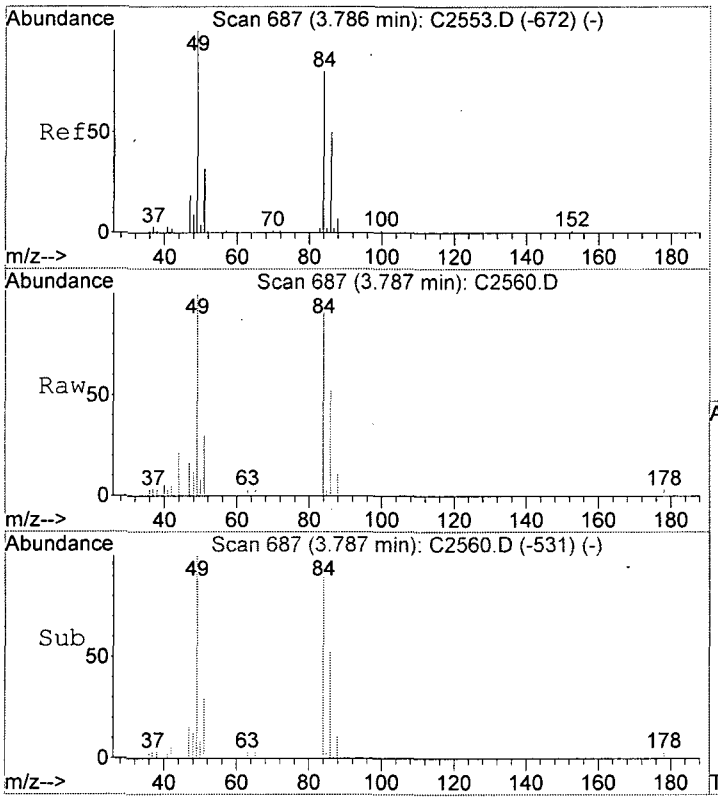
Data File : C:\MSDCHEM\1\DATA\C2560.D
Acq On : 12 Mar 2010 12:45
Sample : 0011765-08
Misc : F3FY3 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:10 2010

Vial: 2
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



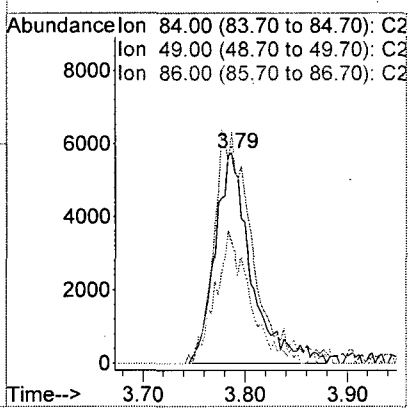
Data File : C:\MSDCHEM\1\DATA\C2560.D Vial: 2
Acq On : 12 Mar 2010 12:45 Operator: SP
Sample : 0011765-08 Inst : C-5973
Misc : F3FY3 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#16
Methylene Chloride
Concen: 0.7623 ug/L
RT: 3.79 min Scan# 687
Delta R.T. 0.00 min
Lab File: C2560.D
Acq: 12 Mar 2010 12:45

Tgt Ion: 84 Resp: 14067

Ion	Ratio	Lower	Upper
84	100		
49	122.0	102.8	142.8
86	60.2	44.9	84.9



000000064

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2560.D Vial: 2
Acq On : 12 Mar 2010 12:45 Operator: SP
Sample : 0011765-08 Inst : C-5973
Misc : F3FY3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

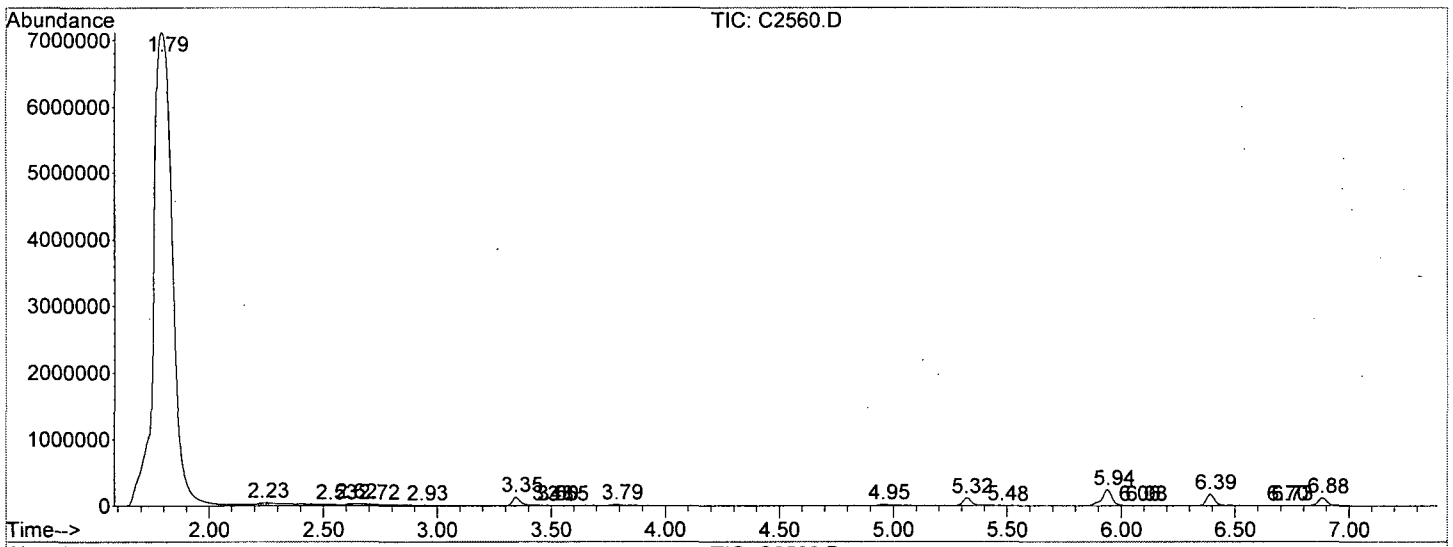
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.791	13	65	155	rBV	7119043	41108694	100.00%	88.597%
2	2.233	195	203	212	rBV3	24344	58412	0.14%	0.126%
3	2.532	294	296	298	rBV3	3000	1708	0.00%	0.004%
4	2.618	313	323	326	rBV2	21728	33177	0.08%	0.072%
5	2.718	352	354	361	rVB5	5814	3825	0.01%	0.008%
6	2.930	418	420	423	rVB4	2576	1074	0.00%	0.002%
7	3.347	535	550	570	rBV	133328	324865	0.79%	0.700%
8	3.482	590	592	597	rVV4	2063	1757	0.00%	0.004%
9	3.504	597	599	601	rVB2	2122	1030	0.00%	0.002%
10	3.549	611	613	620	rVB3	1212	1257	0.00%	0.003%
11	3.787	674	687	702	rBV3	21848	50790	0.12%	0.109%
12	4.955	1040	1051	1072	rBV2	18690	53131	0.13%	0.115%
13	5.320	1150	1165	1191	rBV2	112166	290424	0.71%	0.626%
14	5.478	1211	1214	1218	rVB3	1298	1018	0.00%	0.002%
15	5.943	1332	1359	1387	rBV3	241045	753711	1.83%	1.624%
16	6.055	1392	1394	1397	rVV2	2442	1663	0.00%	0.004%
17	6.084	1400	1403	1405	rVB3	2096	1065	0.00%	0.002%
18	6.389	1481	1498	1521	rBV2	173366	438848	1.07%	0.946%
19	6.703	1591	1596	1597	rBV3	1621	1214	0.00%	0.003%
20	6.726	1601	1603	1610	rVB4	1543	1356	0.00%	0.003%
21	6.883	1636	1652	1672	rBV3	115780	301374	0.73%	0.650%
22	7.855	1939	1955	1978	rBV3	127725	343190	0.83%	0.740%
23	7.948	1982	1984	1991	rVB5	2118	2134	0.01%	0.005%
24	8.292	2073	2091	2113	rBV	283150	753904	1.83%	1.625%
25	8.401	2124	2125	2130	rVB3	2197	1174	0.00%	0.003%
26	8.622	2177	2194	2214	rBV	65429	174865	0.43%	0.377%
27	8.940	2285	2293	2294	rBV4	5435	5274	0.01%	0.011%
28	9.219	2368	2380	2401	rBV4	45739	134590	0.33%	0.290%
29	10.413	2731	2752	2783	rBV3	173113	496706	1.21%	1.070%
30	12.146	3280	3292	3309	rVB2	60863	118274	0.29%	0.255%
31	12.293	3328	3338	3351	rVB3	12185	22055	0.05%	0.048%
32	12.540	3411	3415	3418	rBV3	2587	2016	0.00%	0.004%
33	13.243	3621	3634	3652	rBV	260239	436672	1.06%	0.941%
34	13.323	3656	3659	3665	rVB4	2070	1813	0.00%	0.004%
35	13.400	3679	3683	3685	rBV2	1215	1013	0.00%	0.002%
36	13.593	3730	3743	3757	rBV2	271984	454188	1.10%	0.979%
37	13.689	3765	3773	3785	rVB5	7796	11151	0.03%	0.024%
38	14.039	3872	3882	3890	rVB2	5682	9044	0.02%	0.019%
39	14.196	3928	3931	3934	rBV3	1510	1120	0.00%	0.002%

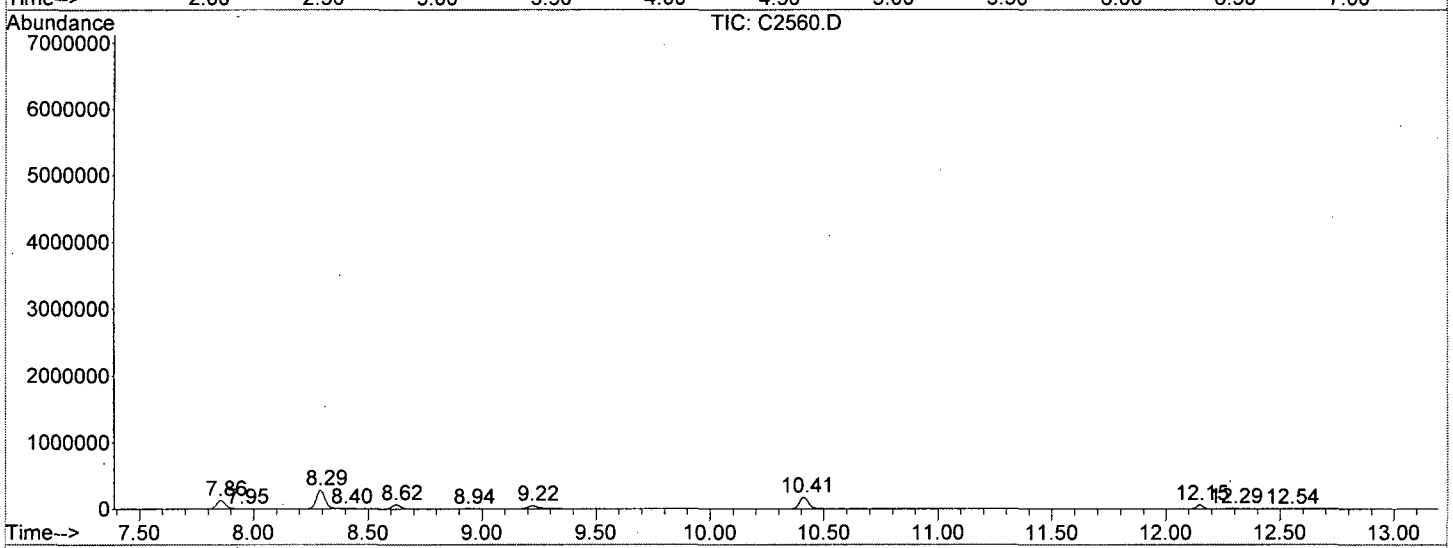
000000065

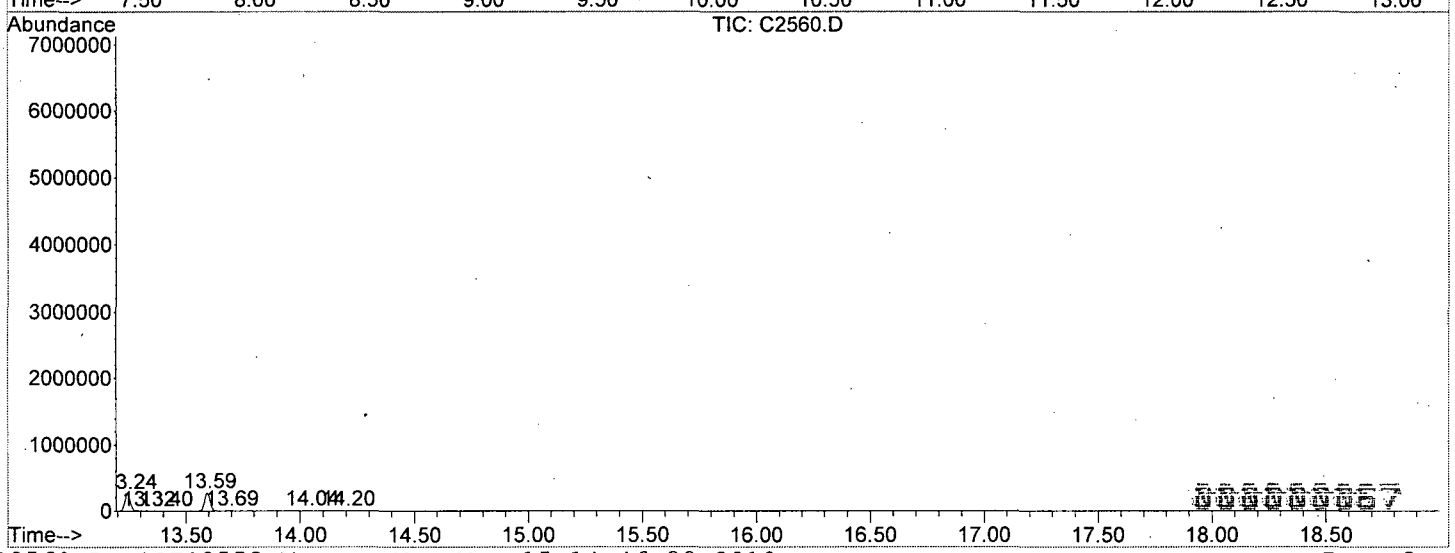
Sum of corrected areas: 46399576

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2560.D Vial: 2
Acq On : 12 Mar 2010 12:45 Operator: SP
Sample : 0011765-08 Inst : C-5973
Misc : F3FY3 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2560.D Vial: 2
Acq On' : 12 Mar 2010 12:45 Operator: SP
Sample : 0011765-08 Inst : C-5973
Misc : F3FY3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

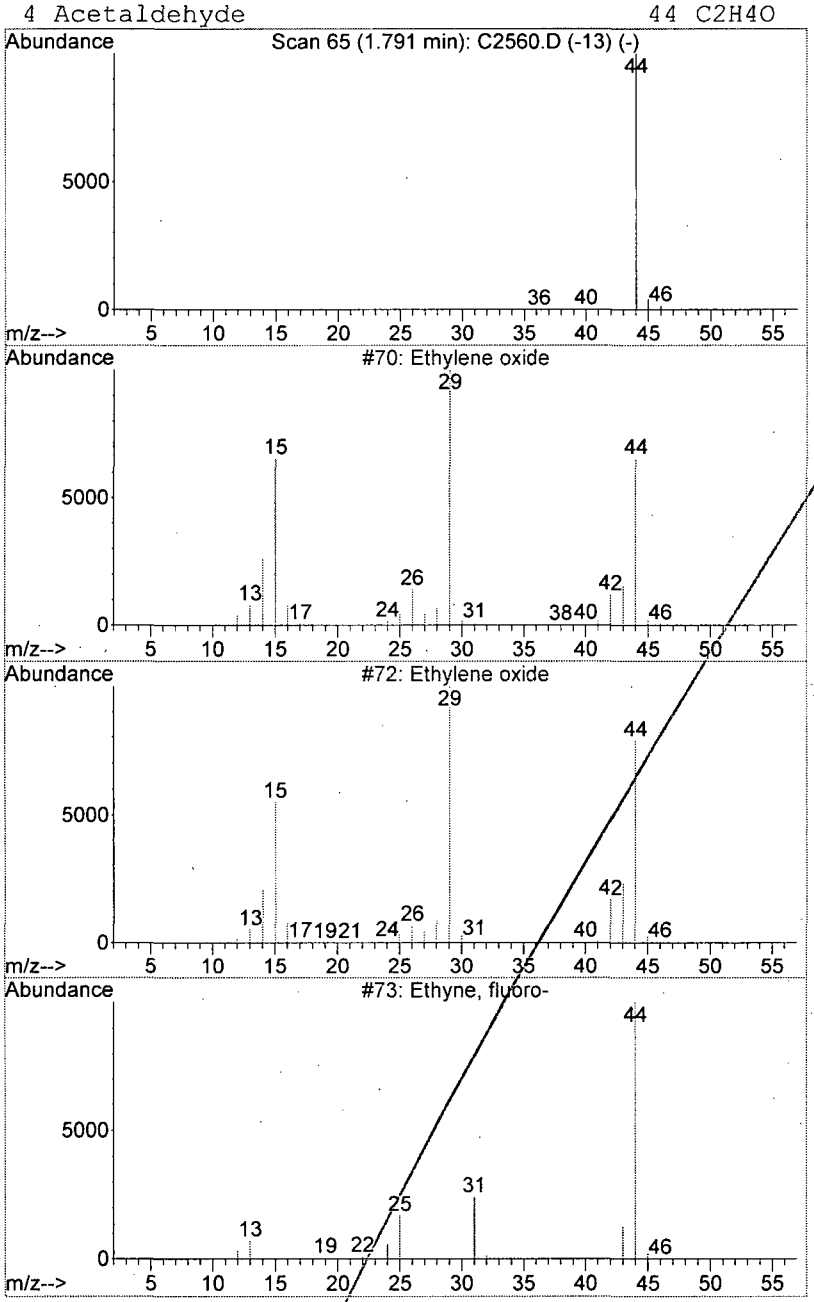
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

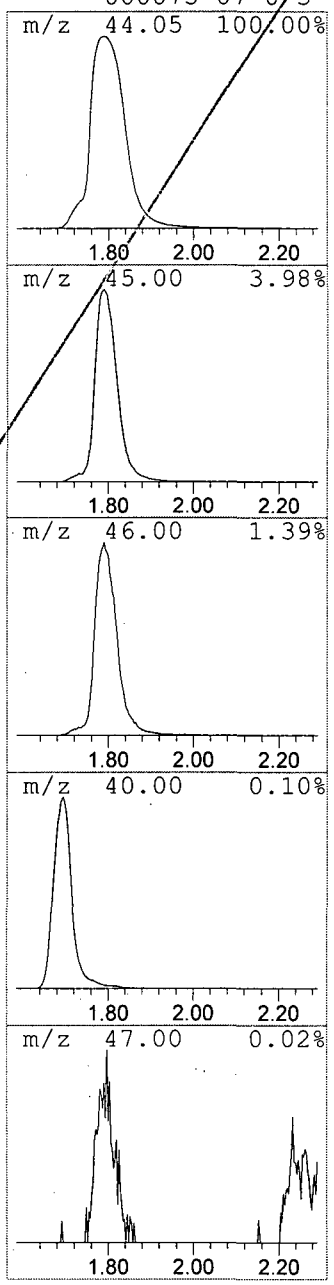
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.79	468.37 ug/L	41108700	1,4-Difluorobenzene	6.40

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





000000068

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2560.D Vial: 2
Acq On : 12 Mar 2010 12:45 Operator: SP
Sample : 0011765-08 Inst : C-5973
Misc : F3FY3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

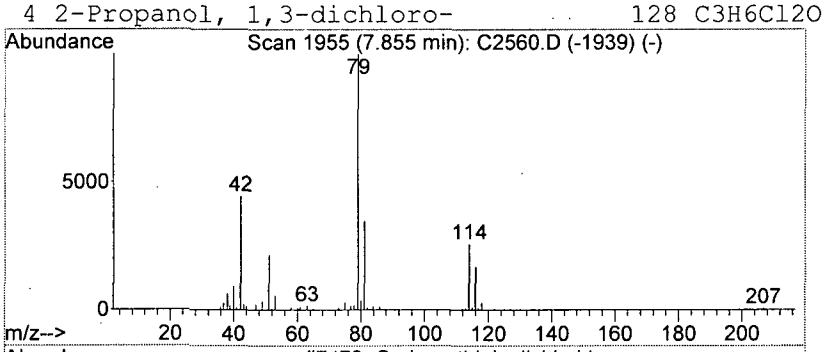
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER ~25ML
Library : C:\DATABASE\NIST02.L

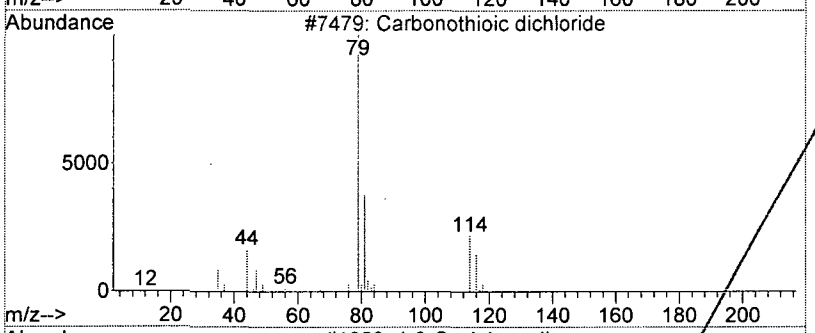
****

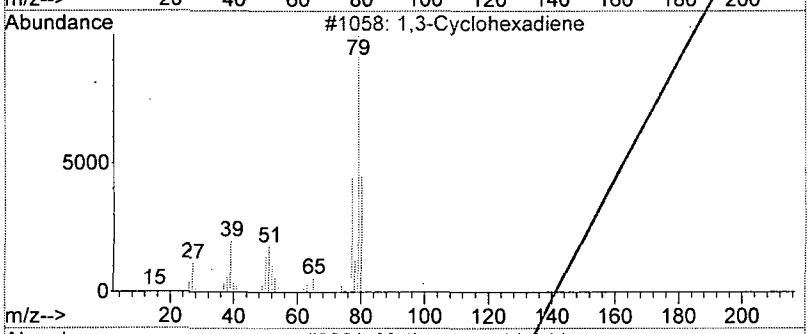
Peak Number 2 Carbonothioic dichloride Concentration Rank 2

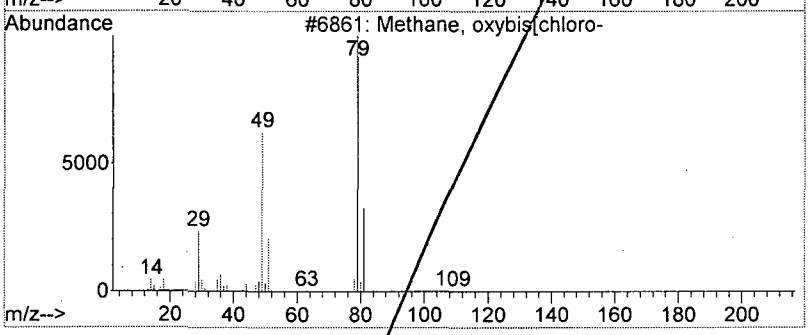
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.91 ug/L	343190	1,4-Difluorobenzene	6.40

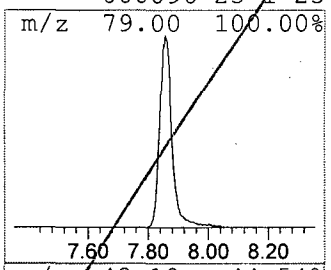
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23

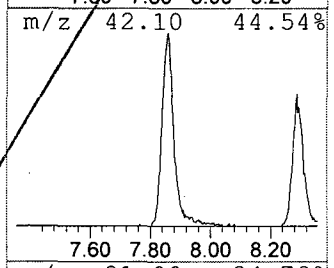


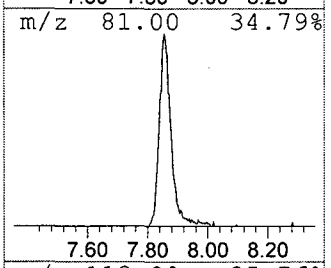


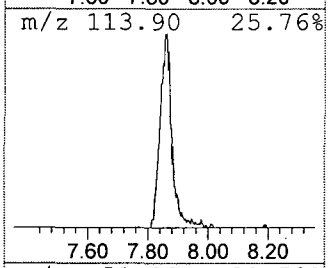


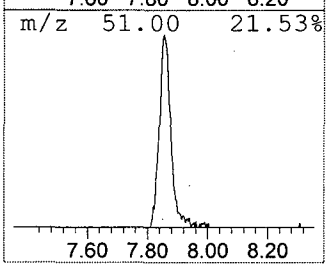












One only at

000000069

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 12:45
Data File: C:\MSDCHEM\1\DATA\C2560.D
Name: 0011765-08
Misc: F3FY3 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylene oxide	1.79	468.4	ug/L	41108700	1	6.40	438848	5.0
Carbonothioic dic...	7.86	3.9	ug/L	343190	1	6.40	438848	5.0

000000070

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

EPA SAMPLE NO.
F3FY4

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2564.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.
F3FY4

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2564.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY4

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2564.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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\C2564.D Vial: 6
Acq On : 12 Mar 2010 14:57 Operator: SP
Sample : 0011765-04 Inst : C-5973
Misc : F3FY4 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 15:39:50 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10
3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.38	114	189950	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	158052	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	80468	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.21	65	126615	5.8130 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 116.26%		
7) Chloroethane-d5	2.61	69	99425	5.4210 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 108.42%		
10) 1,1-Dichloroethene-d2	3.33	63	112471	4.4179 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 88.36%		
20) 2-Butanone-d5	4.95	46	32530	31.9193 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 63.84%		
24) Chloroform-d	5.31	84	109015	4.7605 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 95.21%		
26) 1,2-Dichloroethane-d4	5.89	65	42843	3.7872 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 75.74%#		
32) Benzene-d6	5.93	84	270353	5.6495 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 112.99%		
35) 1,2-Dichloropropane-d6	6.88	67	66294	4.7273 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 94.55%		
41) Toluene-d8	8.29	98	262409	5.6934 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 113.87%		
43) trans-1,3-Dichloropropene-	8.61	79	51832	4.0514 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 81.03%		
47) 2-Hexanone-d5	9.21	63	24449	31.9573 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 63.91%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	31681	3.1153 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 62.31%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	83047	4.9147 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 98.29%		

Target Compounds Qvalue

000000074

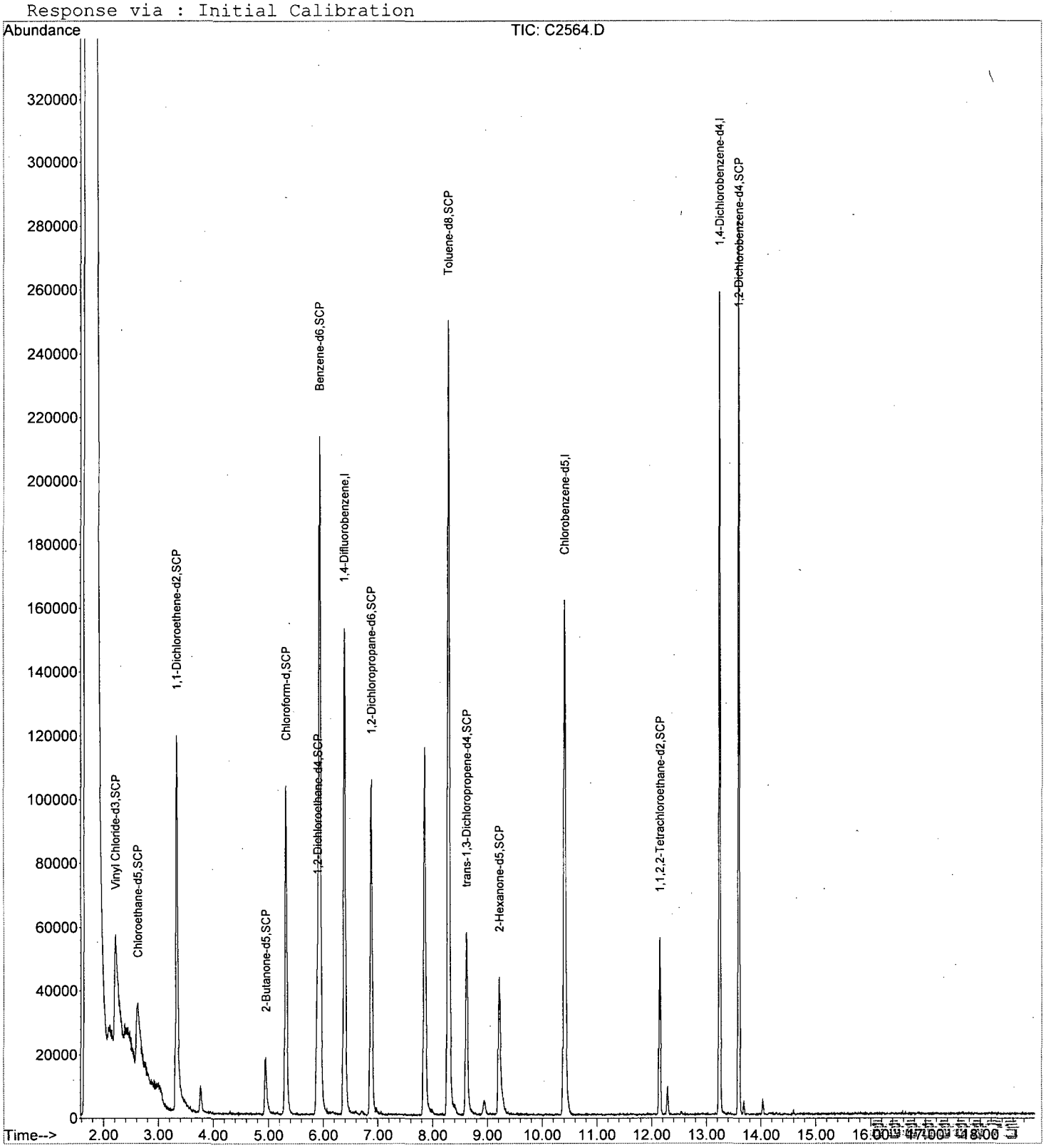
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2564.D
Acq On : 12 Mar 2010 14:57
Sample : 0011765-04
Misc : F3FY4 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:14 2010

Vial: 6
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2564.D Vial: 6
Acq On : 12 Mar 2010 14:57 Operator: SP
Sample : 0011765-04 Inst : C-5973
Misc : F3FY4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.665	11	26	27	rBV	375375	464789	0.91%	0.825%
2	1.774	32	60	134	rVB	6979277	51208530	100.00%	90.847%
3	2.217	190	198	207	rBV2	22030	49981	0.10%	0.089%
4	2.503	285	287	290	rVB	4608	2028	0.00%	0.004%
5	2.602	310	318	319	rBV4	16819	18381	0.04%	0.033%
6	2.795	375	378	379	rBV3	2743	1504	0.00%	0.003%
7	2.952	426	427	432	rBV3	1754	1172	0.00%	0.002%
8	3.327	532	544	566	rBV2	117248	278306	0.54%	0.494%
9	3.770	672	682	694	rBV4	8342	18127	0.04%	0.032%
10	4.941	1036	1047	1048	rBV	17439	19506	0.04%	0.035%
11	5.314	1149	1163	1185	rBV2	102321	248122	0.48%	0.440%
12	5.930	1327	1355	1386	rBV3	212916	666087	1.30%	1.182%
13	6.180	1429	1433	1438	rVB3	979	1143	0.00%	0.002%
14	6.382	1479	1496	1518	rBV	152802	389682	0.76%	0.691%
15	6.876	1633	1650	1674	rBV3	104886	270963	0.53%	0.481%
16	7.849	1937	1953	1975	rBV4	115432	298997	0.58%	0.530%
17	7.926	1975	1977	1981	rVB3	1957	1185	0.00%	0.002%
18	8.285	2069	2089	2113	rBV	249632	653752	1.28%	1.160%
19	8.369	2113	2115	2118	rVB3	1860	1196	0.00%	0.002%
20	8.619	2177	2193	2213	rBV4	57341	153425	0.30%	0.272%
21	8.686	2213	2214	2220	rVB3	1363	1090	0.00%	0.002%
22	8.924	2278	2288	2289	rBV3	3826	3008	0.01%	0.005%
23	8.943	2289	2294	2297	rVV3	4224	5618	0.01%	0.010%
24	8.956	2297	2298	2306	rVB3	3455	2815	0.01%	0.005%
25	9.216	2362	2379	2399	rBV3	43081	130572	0.25%	0.232%
26	9.296	2402	2404	2407	rVB2	3571	1930	0.00%	0.003%
27	10.406	2729	2750	2771	rBV4	161795	437166	0.85%	0.776%
28	12.149	3280	3293	3305	rBV3	55399	107589	0.21%	0.191%
29	12.290	3327	3337	3349	rVB4	8962	14982	0.03%	0.027%
30	13.240	3617	3633	3649	rBV	258330	436859	0.85%	0.775%
31	13.593	3730	3743	3757	rBV	281597	462320	0.90%	0.820%
32	13.686	3765	3772	3780	rBV6	4410	5769	0.01%	0.010%
33	14.039	3874	3882	3888	rBV3	4976	7004	0.01%	0.012%
34	14.594	4046	4055	4059	rBV3	1899	2134	0.00%	0.004%
35	16.715	4712	4716	4721	rVB2	1028	1023	0.00%	0.002%
36	16.776	4729	4735	4739	rBV3	901	1327	0.00%	0.002%

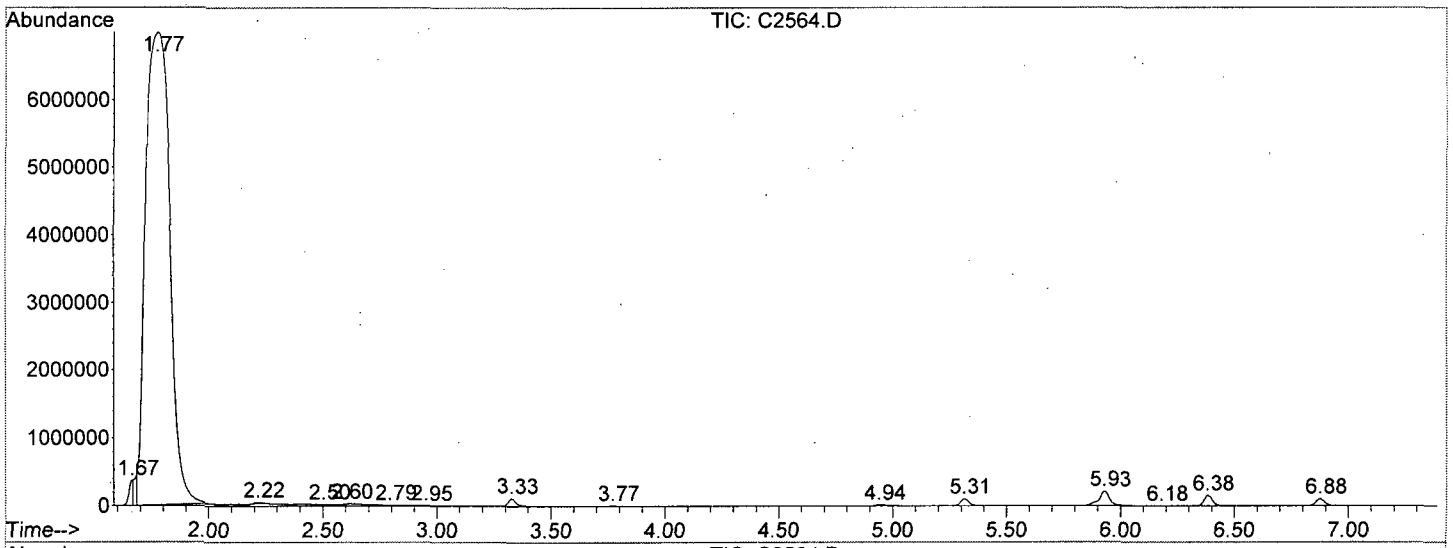
Sum of corrected areas: 56368082

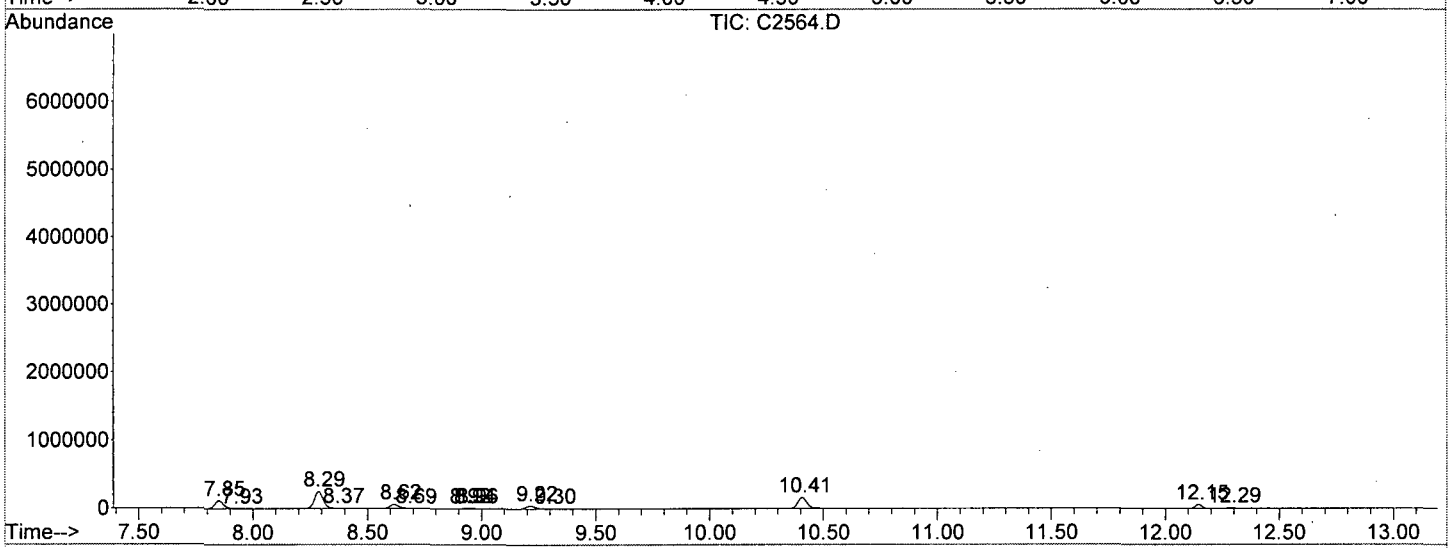
000000076

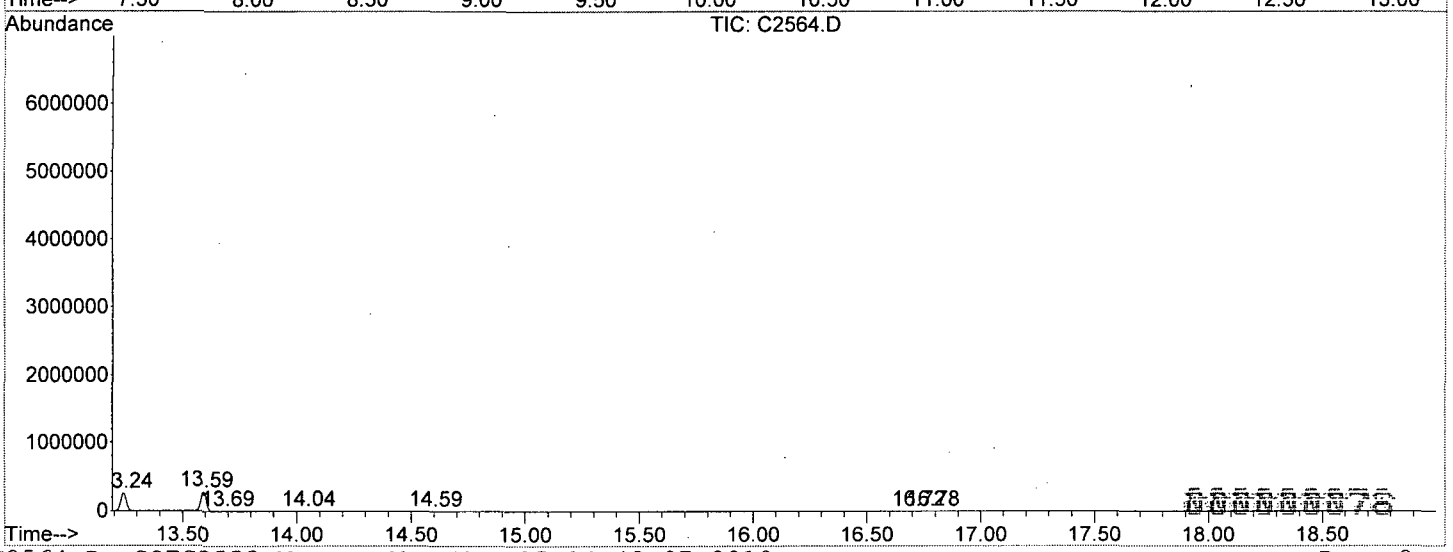
000000077

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2564.D Vial: 6
Acq On : 12 Mar 2010 14:57 Operator: SP
Sample : 0011765-04 Inst : C-5973
Misc : F3FY4 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2564.D Vial: 6
Acq On : 12 Mar 2010 14:57 Operator: SP
Sample : 0011765-04 Inst : C-5973
Misc : F3FY4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

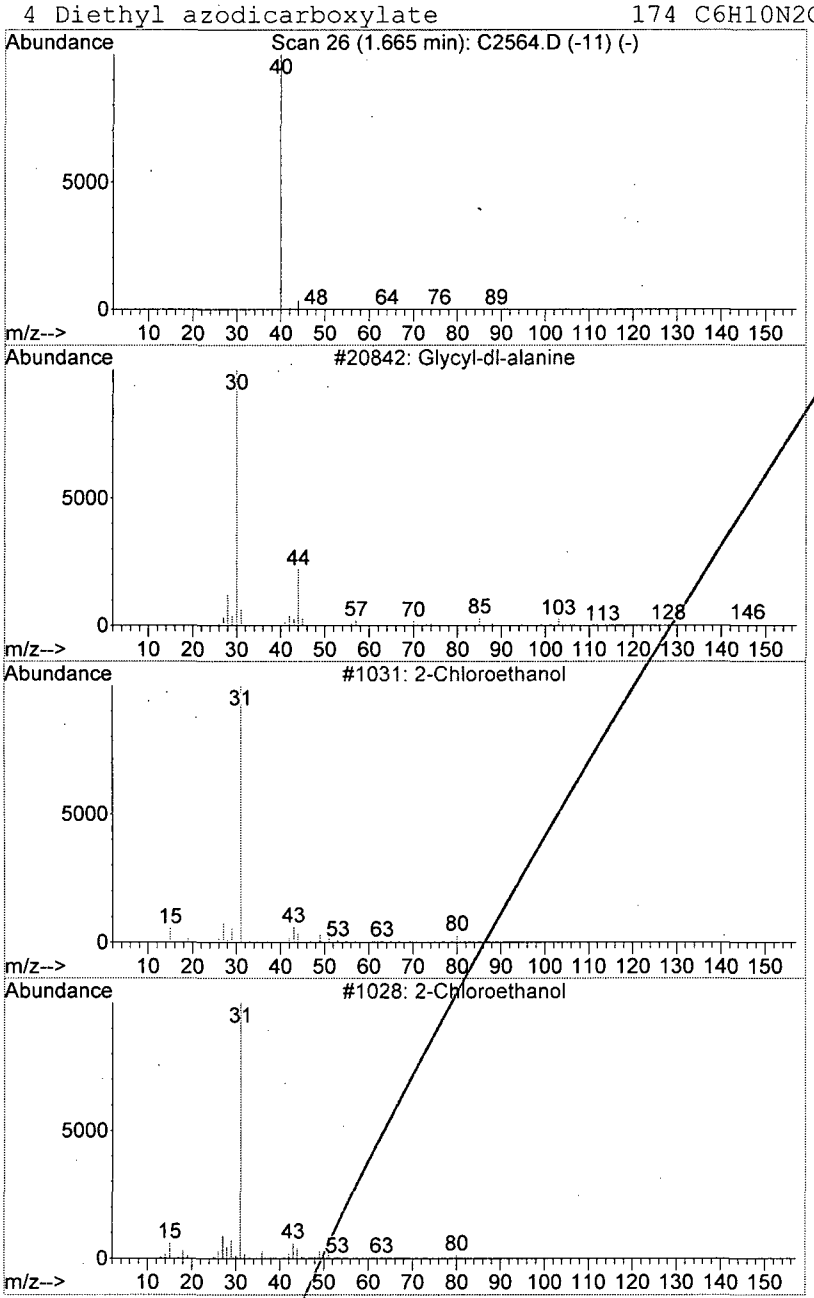
****

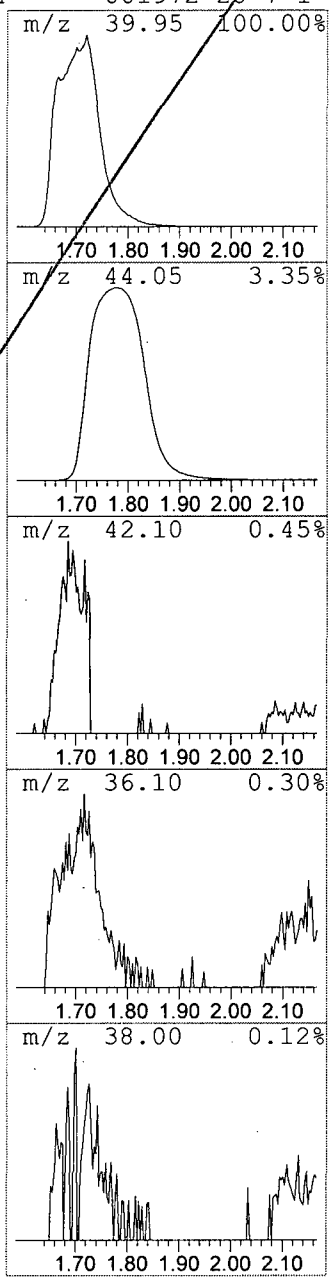
Peak Number 1 Glycyl-dl-alanine Concentration Rank 2

Cor

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	5.96 ug/L	464789	1,4-Difluorobenzene	6.38

Hit# of 4	Tentative ID	MW	MolForm	CAS#	Qual
1	Glycyl-dl-alanine	146	C5H10N2O3	000926-77-2	1
2	2-Chloroethanol	80	C2H5ClO	000107-07-3	1
3	2-Chloroethanol	80	C2H5ClO	000107-07-3	1
4	Diethyl azodicarboxylate	174	C6H10N2O4	001972-28-7	1





000000075

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2564.D Vial: 6
Acq On : 12 Mar 2010 14:57 Operator: SP
Sample : 0011765-04 Inst : C-5973
Misc : F3FY4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

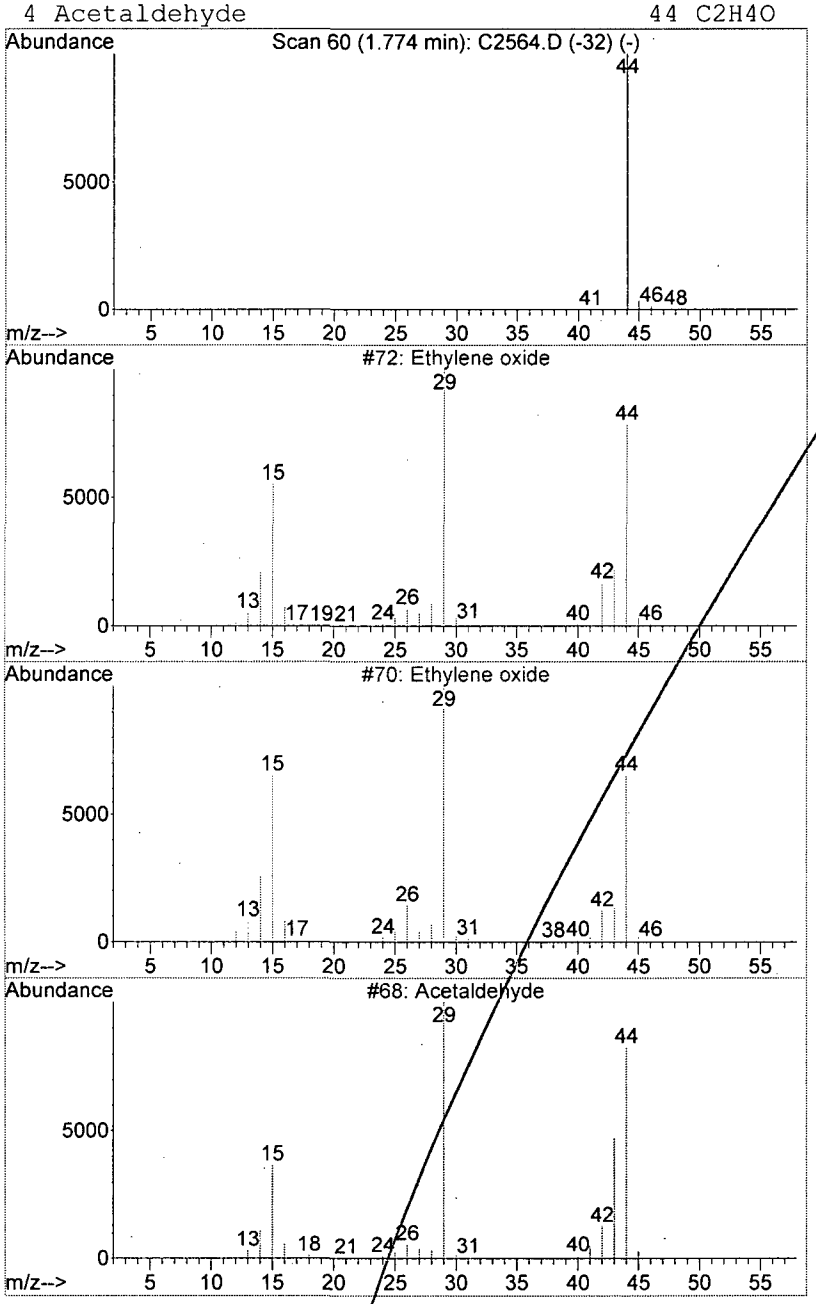
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

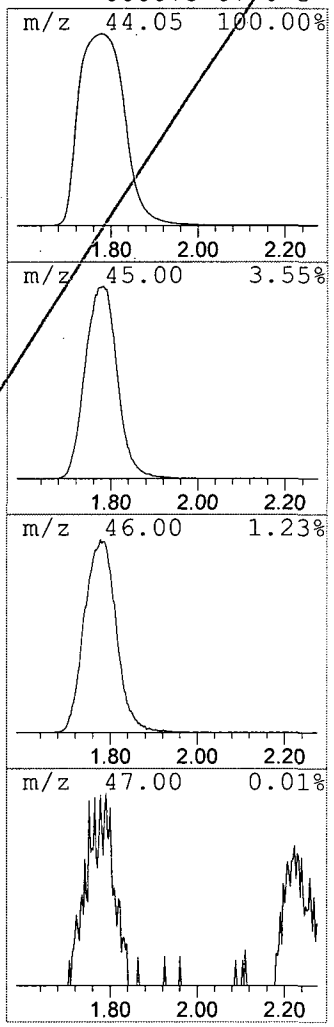
****

Peak Number 2 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.77	657.05 ug/L	51208500	1,4-Difluorobenzene	6.38

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	4
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2564.D Vial: 6
Acq On : 12 Mar 2010 14:57 Operator: SP
Sample : 0011765-04 Inst : C-5973
Misc : F3FY4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

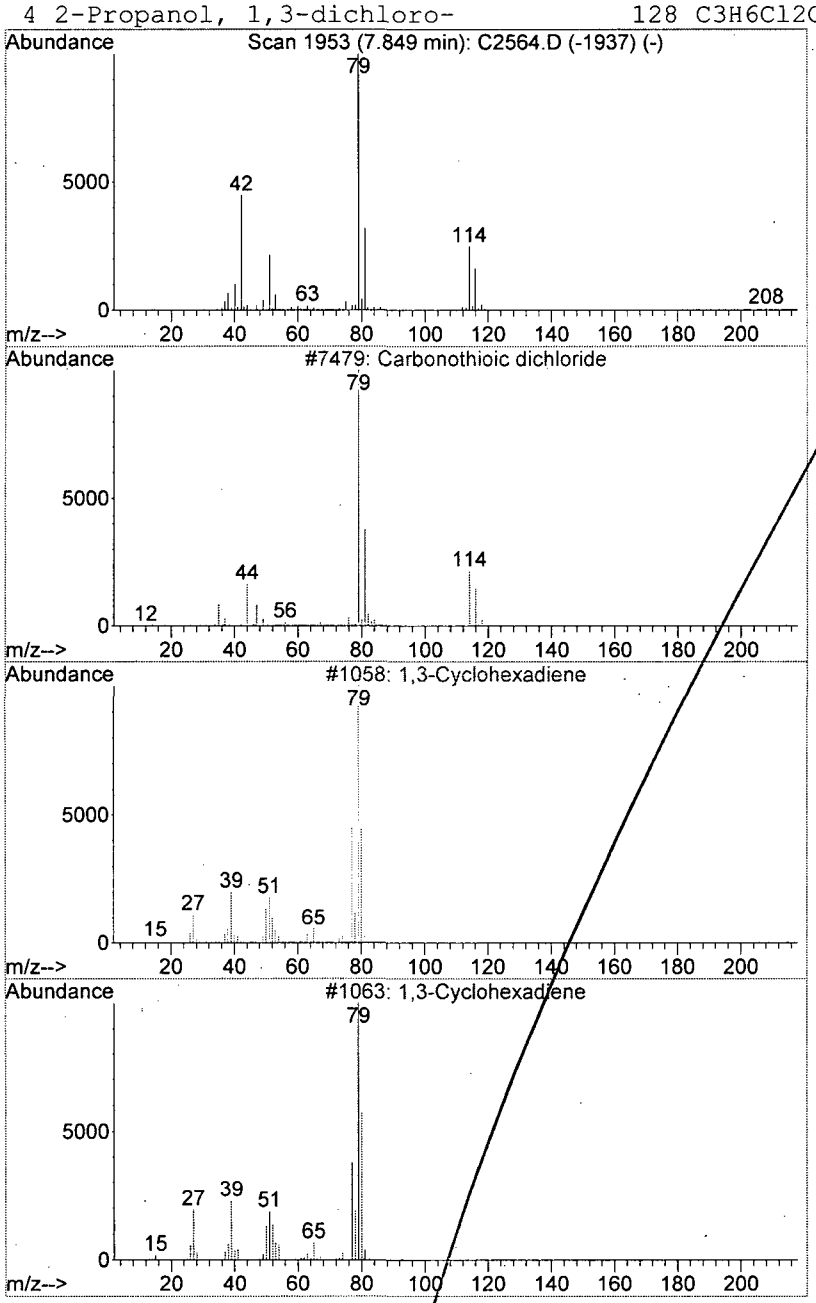
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

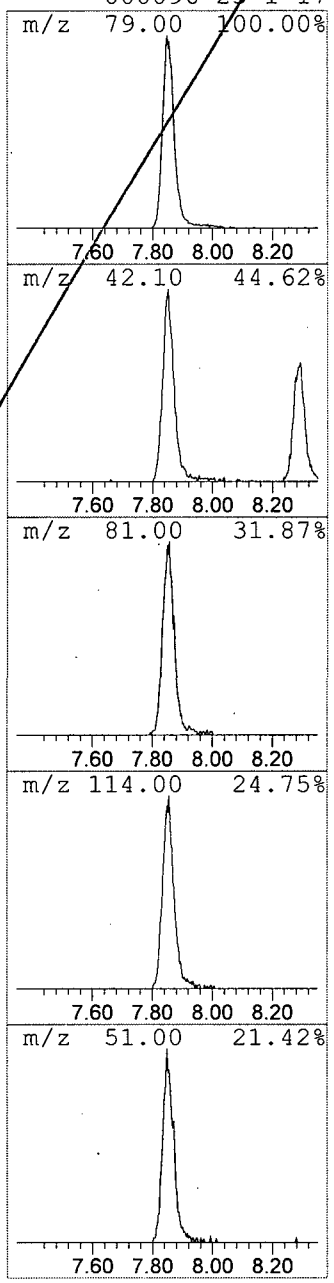
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.84 ug/L	298997	1,4-Difluorobenzene	6.38

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	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	17





000000081

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 14:57
Data File: C:\MSDCHEM\1\DATA\C2564.D
Name: 0011765-04
Misc: F3FY4 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Glycyl-dl-alanine	1.67	6.0	ug/L	464789	1	6.38	389682	5.0
Ethylene oxide	1.77	657.1	ug/L	51208500	1	6.38	389682	5.0
Carbonothioic dic...	7.85	3.8	ug/L	298997	1	6.38	389682	5.0

000000082

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

EPA SAMPLE NO.
F3FY5

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2565.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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	3.9	J
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
79-01-6	Trichloroethene	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.
F3FY5

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2565.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY5

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2565.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 15:49:13 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/13/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	201564	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	169838	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	77208	5.0000 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	2.23	65	140185	6.0651 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 121.30%		
7) Chloroethane-d5	2.62	69	111057	5.7063 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 114.13%		
10) 1,1-Dichloroethene-d2	3.34	63	125888	4.6600 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 93.20%		
20) 2-Butanone-d5	4.95	46	37933	35.0762 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 70.15%		
24) Chloroform-d	5.32	84	115127	4.7377 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 94.75%		
26) 1,2-Dichloroethane-d4	5.90	65	48459	4.0369 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 80.74%		
32) Benzene-d6	5.94	84	298285	5.8006 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 116.01%		
35) 1,2-Dichloropropane-d6	6.87	67	74418	4.9383 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 98.77%		
41) Toluene-d8	8.29	98	288071	5.8164 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 116.33%		
43) trans-1,3-Dichloropropene-	8.62	79	57908	4.2122 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 84.24%		
47) 2-Hexanone-d5	9.21	63	27121	32.9899 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 65.98%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	35145	3.2161 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 64.32%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	82368	5.0803 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 101.61%		
Target Compounds					Qvalue
13) Acetone	3.37	43	10209	3.8656 ug/L	87

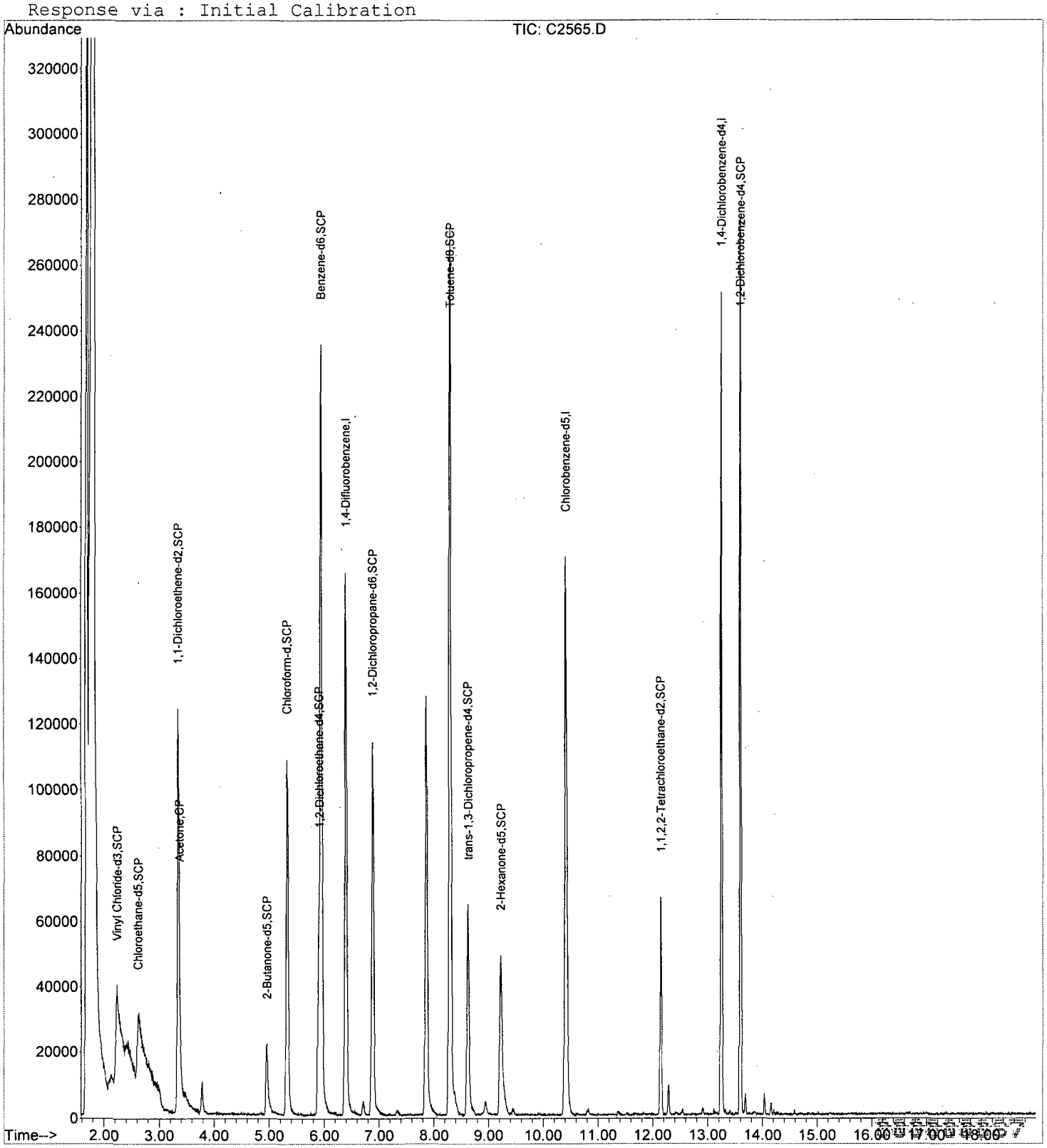
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

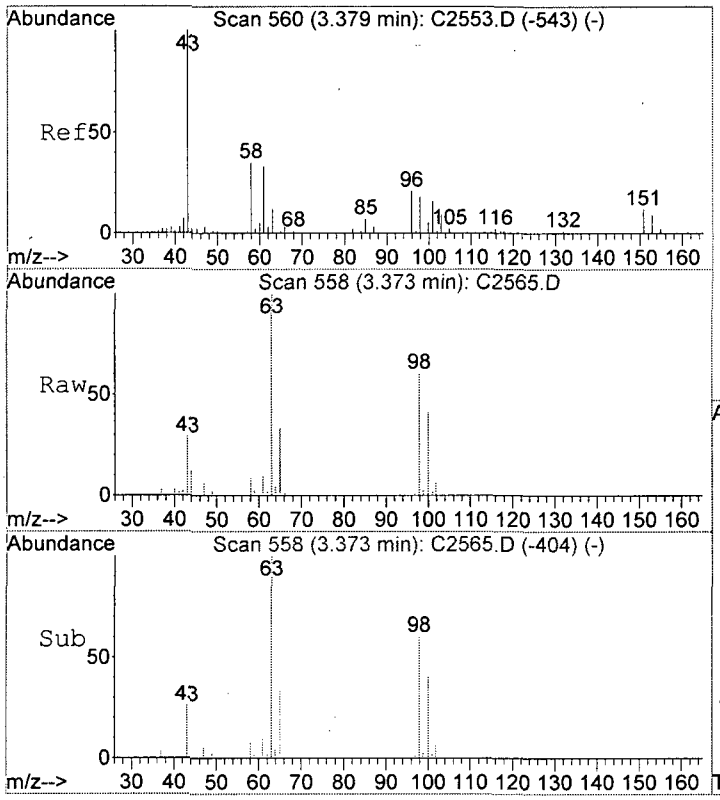
Data File : C:\MSDCHEM\1\DATA\C2565.D
Acq On : 12 Mar 2010 15:24
Sample : 0011765-05
Misc : F3FY5 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:22 2010

Vial: 7
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



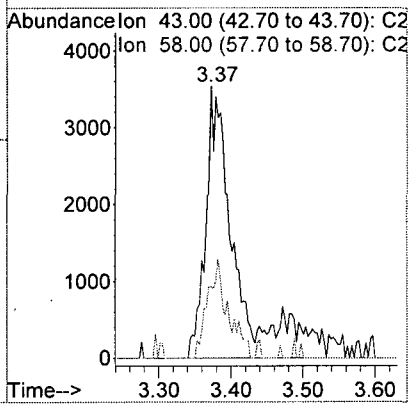
Data File : C:\MSDCHEM\1\DATA\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#13
Acetone
Concen: 3.8656 ug/L
RT: 3.37 min Scan# 558
Delta R.T. -0.01 min
Lab File: C2565.D
Acq: 12 Mar 2010 15:24

Tgt Ion: 43 Resp: 10209

Ion	Ratio	Lower	Upper
43	100		
58	24.8	12.2	52.2



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.694	15	35	44	rBV	391714	1028818	28.82%	10.734%
2	1.787	45	64	107	rVB	963986	3569883	100.00%	37.245%
3	2.089	155	158	160	rBV2	2338	1851	0.05%	0.019%
4	2.124	166	169	172	rBV3	2126	1760	0.05%	0.018%
5	2.195	189	191	192	rBV2	2486	1317	0.04%	0.014%
6	2.237	192	204	205	rBV2	27239	39393	1.10%	0.411%
7	2.381	248	249	251	rBV2	3457	1326	0.04%	0.014%
8	2.615	315	322	323	rBV5	15693	15311	0.43%	0.160%
9	2.962	428	430	434	rVB3	2837	1819	0.05%	0.019%
10	2.981	434	436	438	rBV3	1899	1205	0.03%	0.013%
11	3.344	530	549	573	rBV	122885	320735	8.98%	3.346%
12	3.716	663	665	669	rVB2	1897	1320	0.04%	0.014%
13	3.787	674	687	696	rVV3	9346	17272	0.48%	0.180%
14	4.958	1038	1052	1053	rBV2	21625	32132	0.90%	0.335%
15	5.028	1072	1074	1080	rVB3	2079	2113	0.06%	0.022%
16	5.324	1151	1166	1185	rBV2	107453	270124	7.57%	2.818%
17	5.936	1328	1357	1383	rBV3	234691	729501	20.43%	7.611%
18	6.389	1481	1498	1523	rBV	165280	416116	11.66%	4.341%
19	6.707	1589	1597	1598	rBV5	3291	3568	0.10%	0.037%
20	6.883	1634	1652	1671	rBV3	113772	300697	8.42%	3.137%
21	7.855	1935	1955	1981	rBV2	127774	341757	9.57%	3.566%
22	8.292	2070	2091	2116	rBV2	269744	722015	20.23%	7.533%
23	8.622	2175	2194	2213	rBV4	64244	173667	4.86%	1.812%
24	8.940	2281	2293	2295	rBV3	3457	4861	0.14%	0.051%
25	9.213	2362	2378	2379	rBV2	46017	60445	1.69%	0.631%
26	9.441	2445	2449	2452	rBV5	2082	1995	0.06%	0.021%
27	9.460	2452	2455	2460	rVB4	1614	1648	0.05%	0.017%
28	10.410	2732	2751	2775	rBV2	169722	465925	13.05%	4.861%
29	12.146	3280	3292	3308	rVB2	66380	121664	3.41%	1.269%
30	12.290	3325	3337	3346	rBV4	9142	16388	0.46%	0.171%
31	12.540	3413	3415	3423	rVB4	2133	2195	0.06%	0.023%
32	12.906	3523	3529	3530	rBV3	2290	1905	0.05%	0.020%
33	13.108	3587	3592	3596	rVB3	1829	1309	0.04%	0.014%
34	13.243	3622	3634	3651	rBV2	250468	428181	11.99%	4.467%
35	13.323	3653	3659	3660	rVB4	1530	1517	0.04%	0.016%
36	13.400	3681	3683	3690	rVB4	1641	1593	0.04%	0.017%
37	13.593	3729	3743	3758	rBV2	273533	461171	12.92%	4.811%
38	13.692	3764	3774	3782	rVB4	6403	9486	0.27%	0.099%
39	14.036	3874	3881	3888	rBV3	6243	7949	0.22%	0.083%

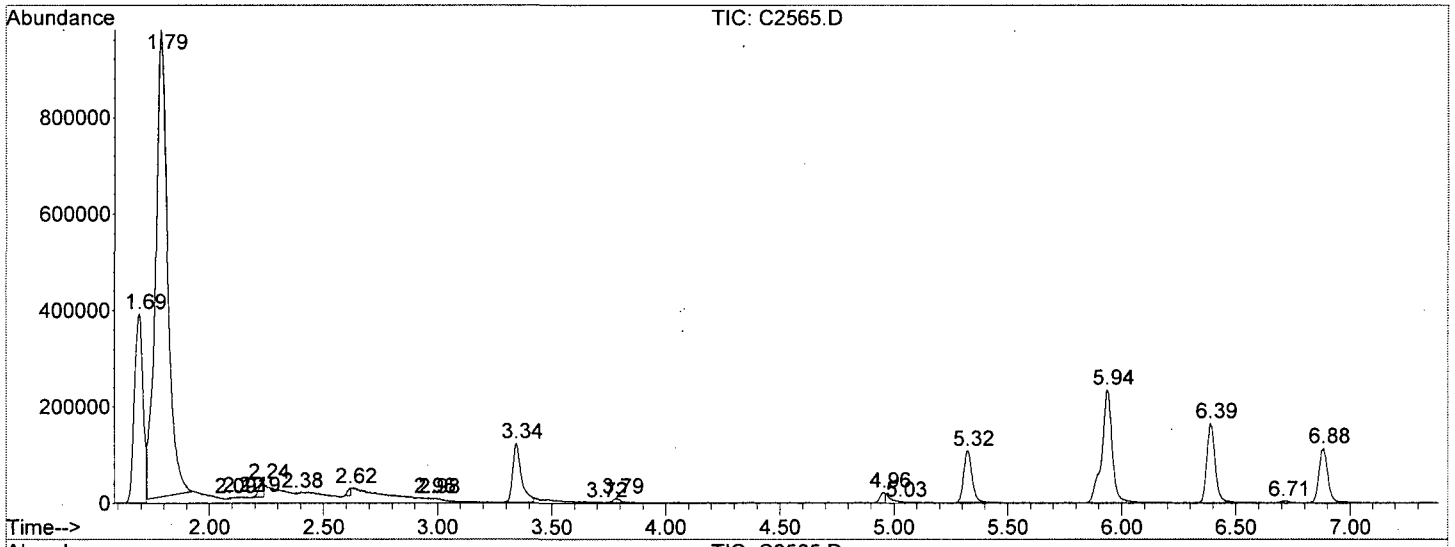
000000083

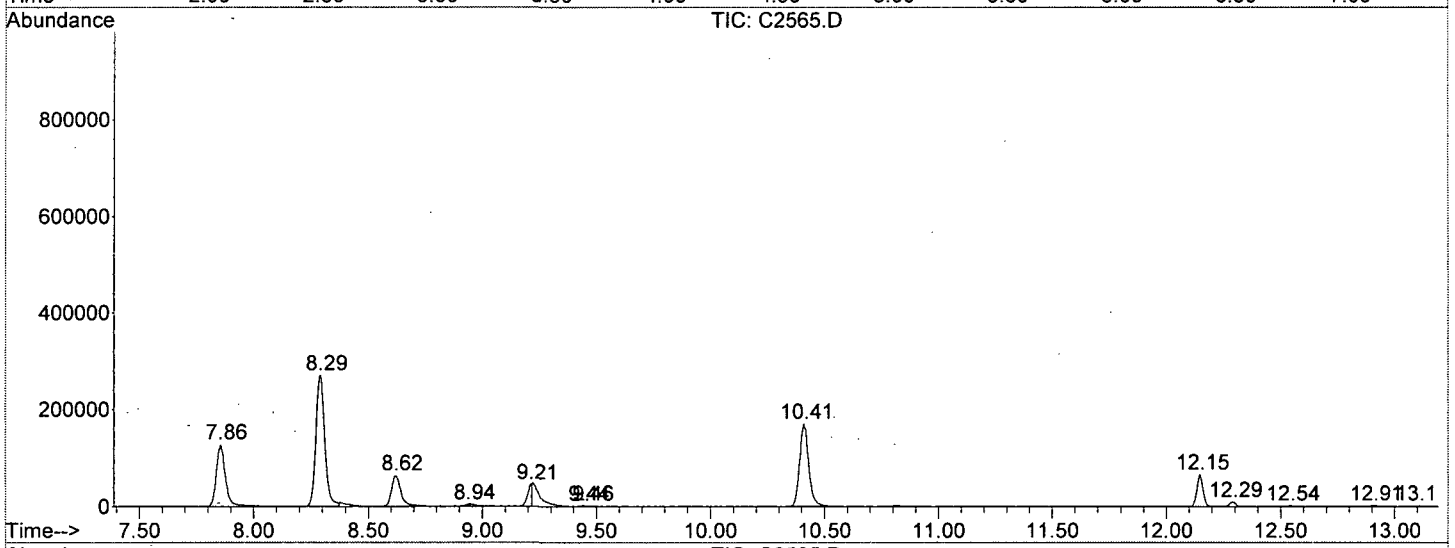
40	14.155	3913	3918	3920	rBV3	3298	3014	0.08%	0.031%

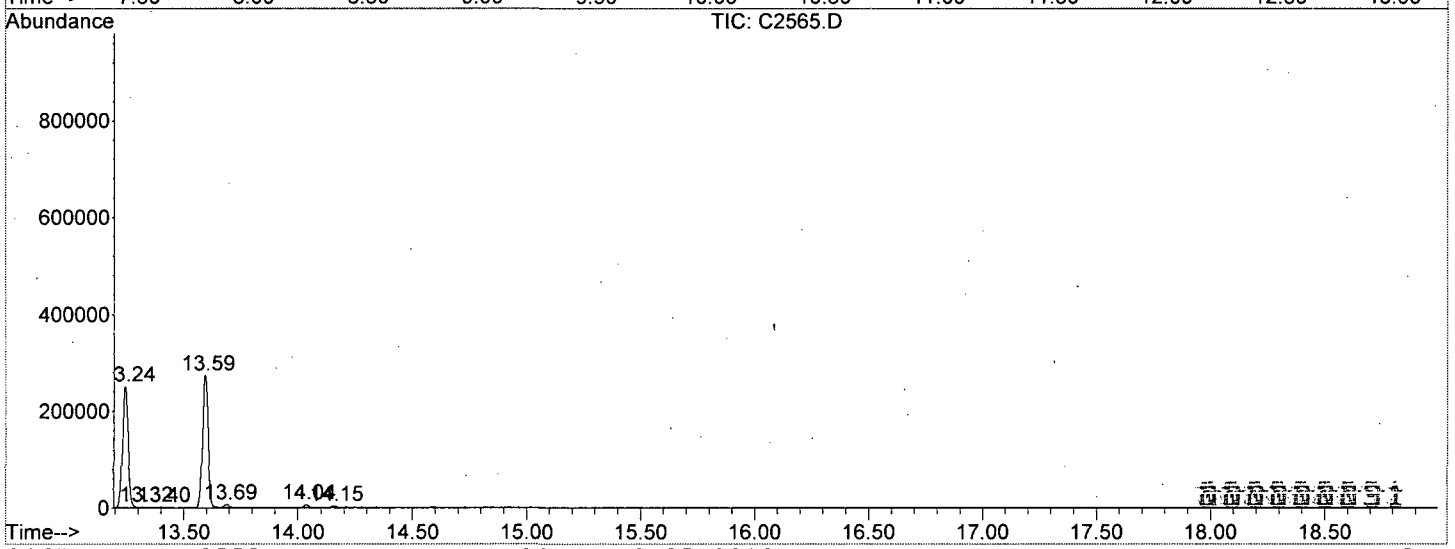
Sum of corrected areas: 9584946

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample . : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

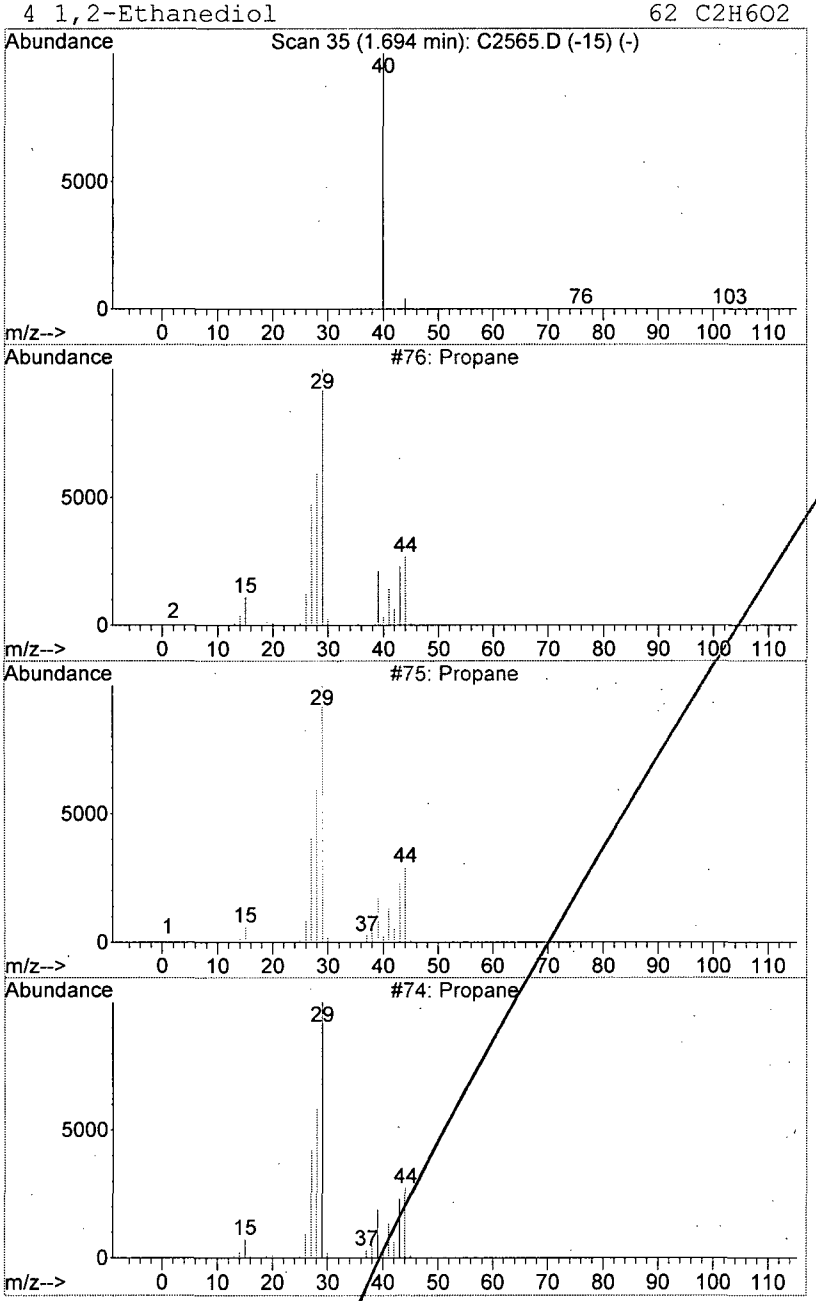
****

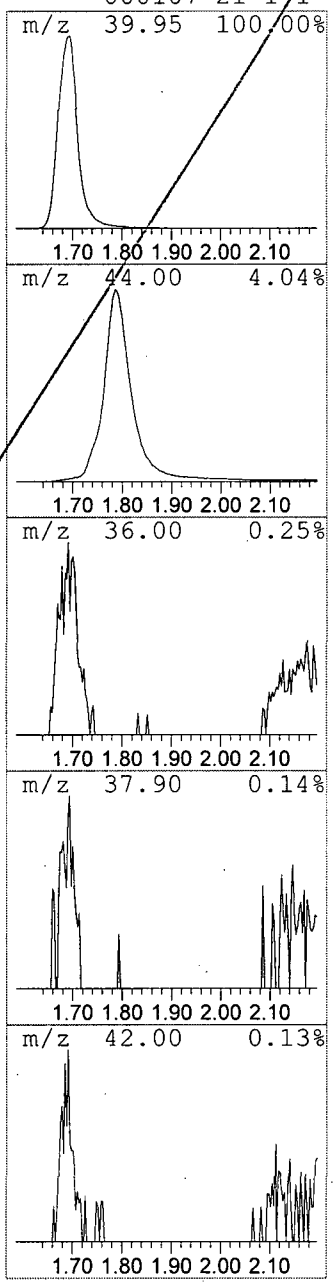
Peak Number 1 Propane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.69	12.36 ug/L	1028820	1,4-Difluorobenzene	6.39

Co2

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	1
2	Propane	44	C3H8	000074-98-6	1
3	Propane	44	C3H8	000074-98-6	1
4	1,2-Ethanediol	62	C2H6O2	000107-21-1	1





000000052

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

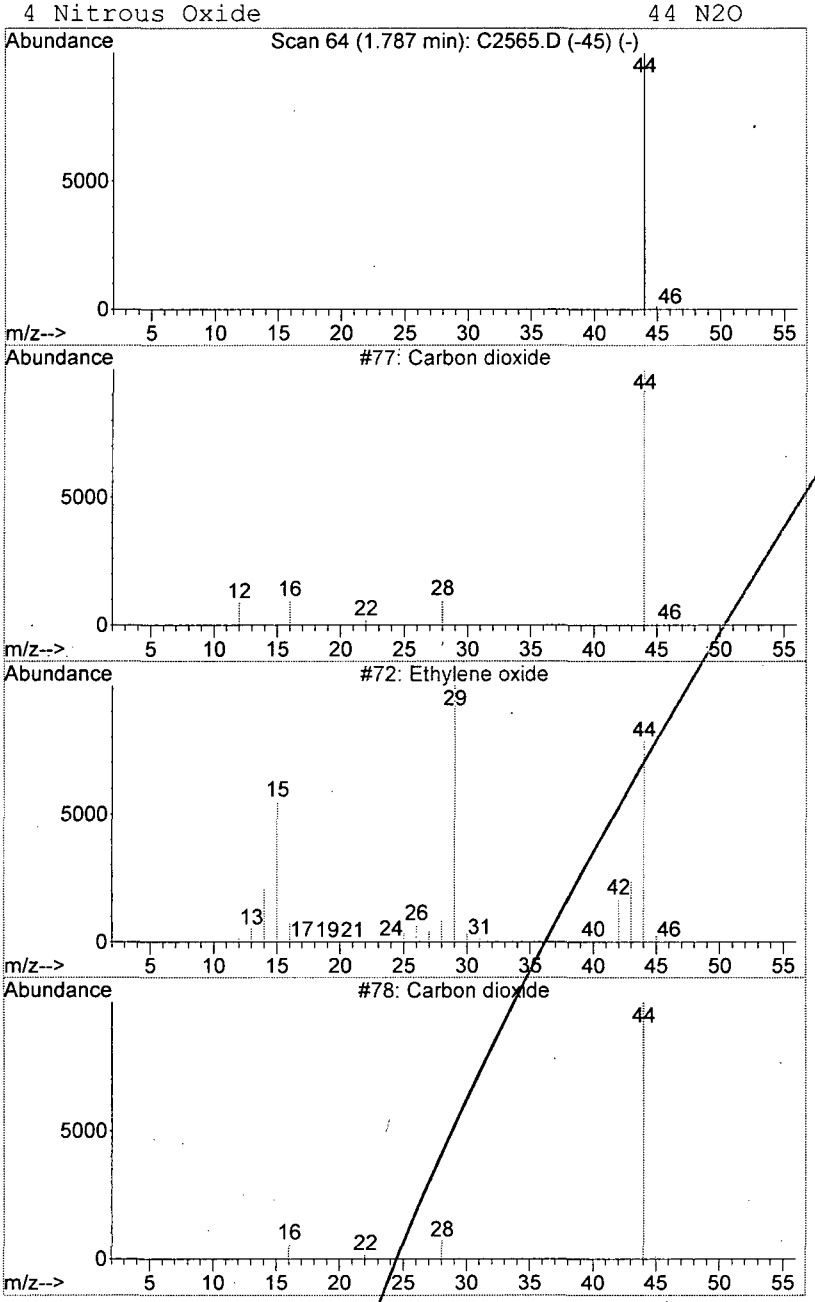
****

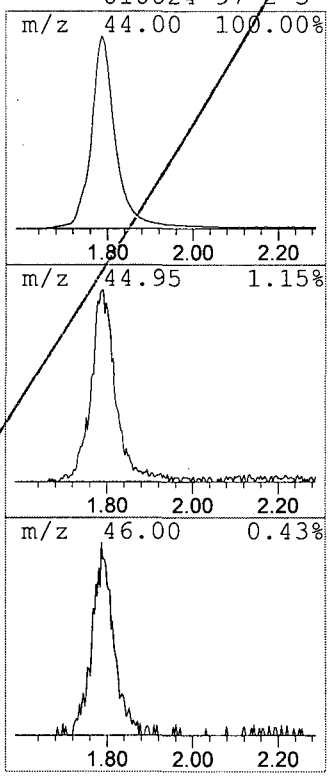
Peak Number 2 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.79	42.90 ug/L	3569880	1,4-Difluorobenzene	6.39

CO2

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	Nitrous Oxide	44	N2O	010024-97-2	3





000000053

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2565.D Vial: 7
Acq On : 12 Mar 2010 15:24 Operator: SP
Sample : 0011765-05 Inst : C-5973
Misc : F3FY5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

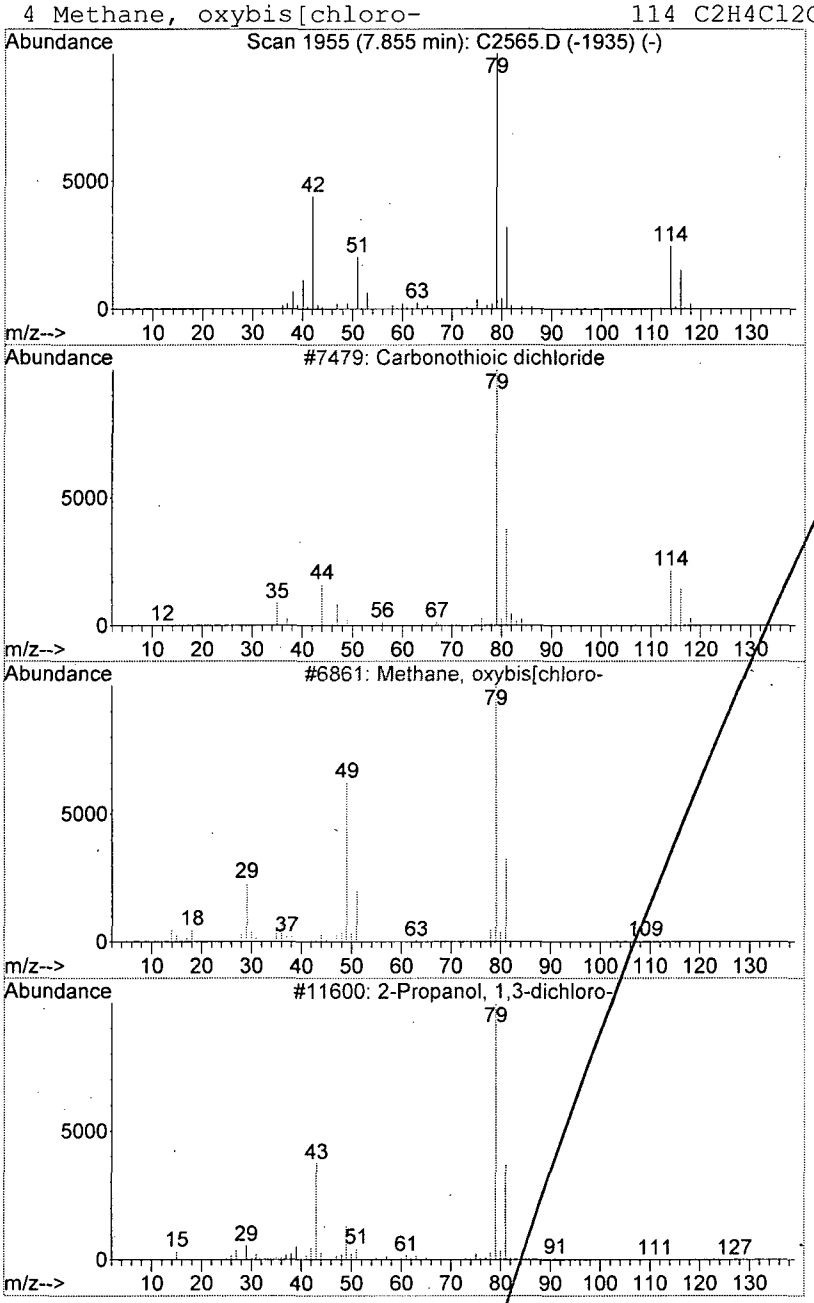
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

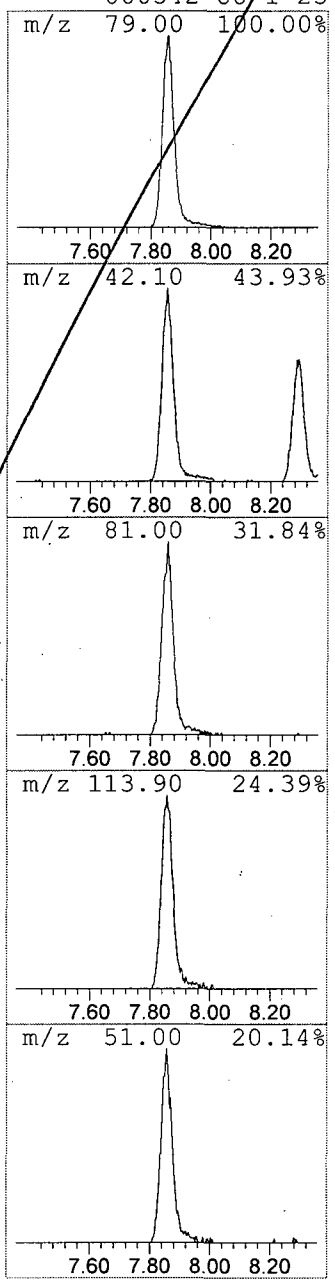
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	4.11 ug/L	341757	1,4-Difluorobenzene	6.39

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	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	32
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25





000000054

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 15:24
Data File: C:\MSDCHEM\1\DATA\C2565.D
Name: 0011765-05
Misc: F3FY5 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Propane	1.69	12.4	ug/L	1028820	1	6.39	416116	5.0
Carbon dioxide	1.79	42.9	ug/L	3569880	1	6.39	416116	5.0
Carbonothioic dic...	7.86	4.1	ug/L	341757	1	6.39	416116	5.0

000000095

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

EPA SAMPLE NO.

F3FY6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2582.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	10	

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

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

EPA SAMPLE NO.

F3FY6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2582.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2582.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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\C2582.D
Acq On : 12 Mar 2010 23:29
Sample : 0011759-03
Misc : F3FY6 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:46:26 2010

Vial: 24
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	165210	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	140773	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	67589	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.22	65	105803	5.5849 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 111.70%		
7) Chloroethane-d5	2.64	69	88026	5.5182 ug/L	0.01
Spiked Amount 5.0000	Range 71 - 131		Recovery = 110.36%		
10) 1,1-Dichloroethene-d2	3.34	63	99418	4.4899 ug/L	-0.01
Spiked Amount 5.0000	Range 55 - 104		Recovery = 89.80%		
20) 2-Butanone-d5	4.94	46	29511	33.2932 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 66.59%		
24) Chloroform-d	5.32	84	99961	5.0188 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 100.38%		
26) 1,2-Dichloroethane-d4	5.89	65	41827	4.2511 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 85.02%		
32) Benzene-d6	5.93	84	244621	5.7392 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 114.78%		
35) 1,2-Dichloropropane-d6	6.88	67	62288	4.9868 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 99.74%		
41) Toluene-d8	8.29	98	232985	5.6754 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 113.51%		
43) trans-1,3-Dichloropropene-	8.62	79	39400	3.4576 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 69.15%#		
47) 2-Hexanone-d5	9.22	63	22000	32.2859 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 64.57%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	31220	3.4467 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 68.93%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	74772	5.2681 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 105.36%		

Target Compounds					Qvalue
34) Trichloroethene	6.72	95	119852	10.4686 ug/L	97

000000055

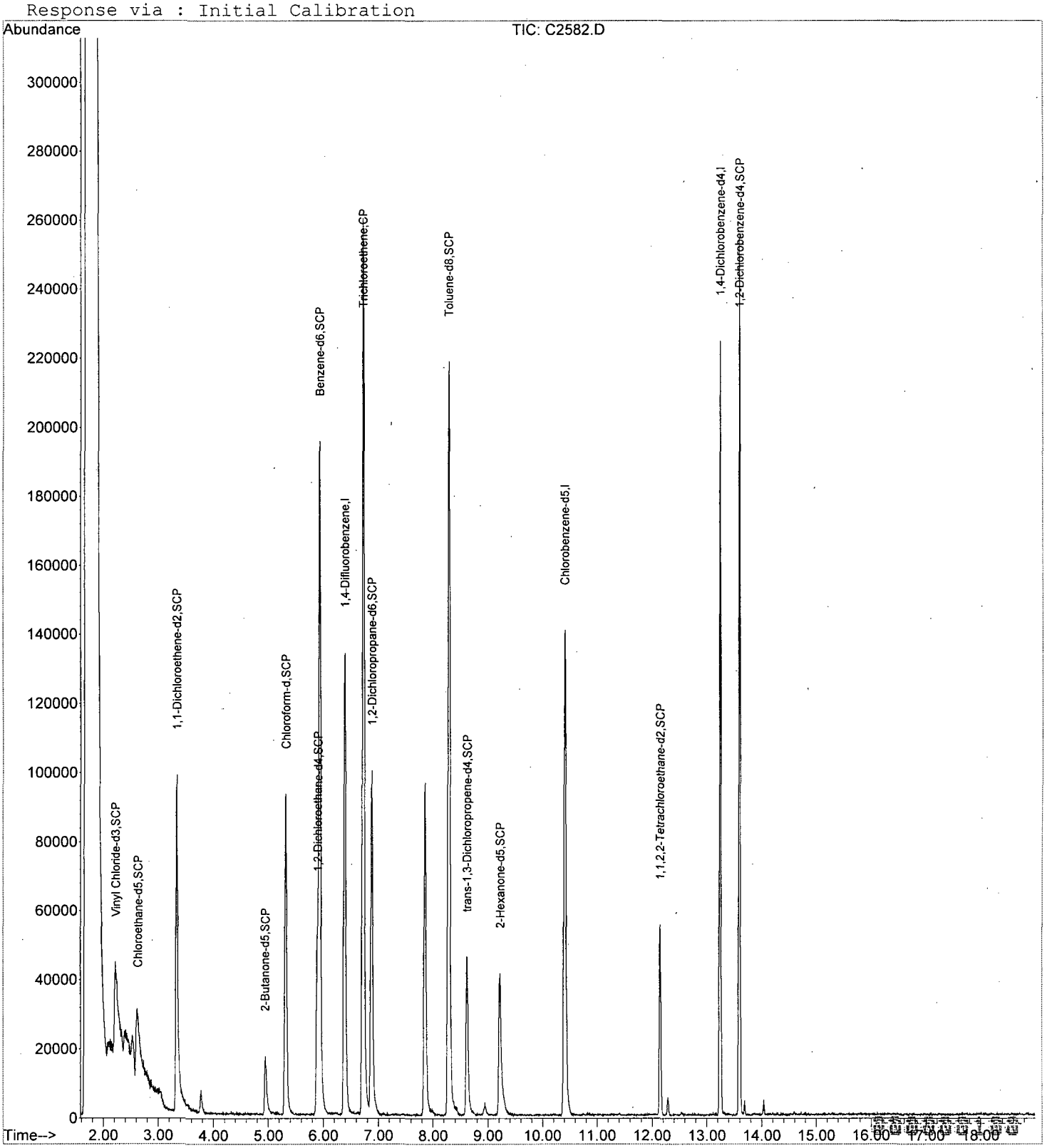
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

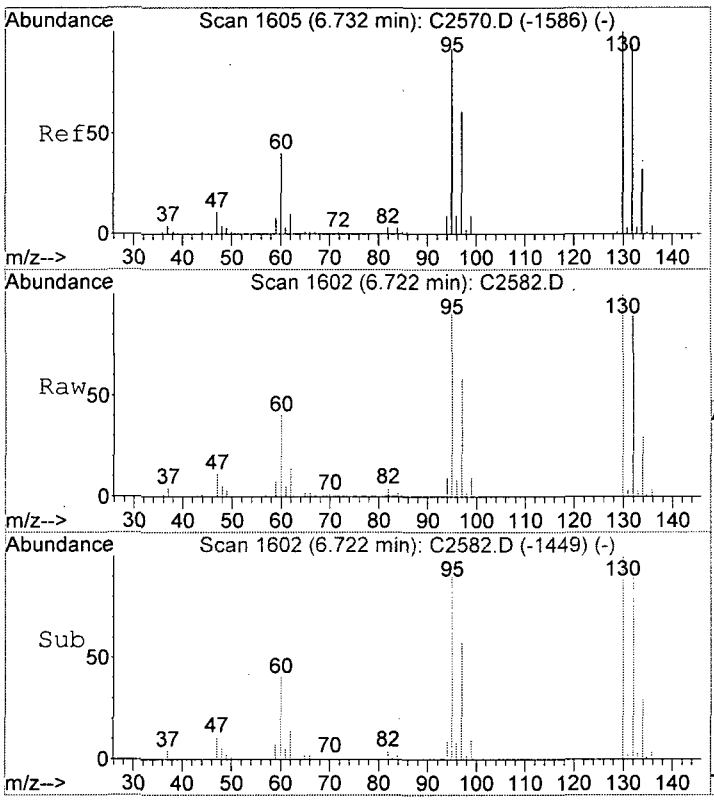
Data File : C:\MSDCHEM\1\DATA\C2582.D
Acq On : 12 Mar 2010 23:29
Sample : 0011759-03
Misc : F3FY6 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:59 2010

Vial: 24
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



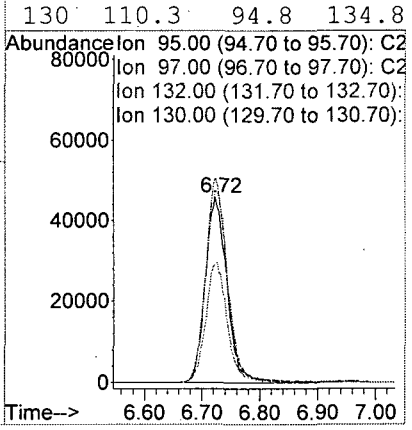
Data File : C:\MSDCHEM\1\DATA\C2582.D Vial: 24
Acq On : 12 Mar 2010 23:29 Operator: SP
Sample : 0011759-03 Inst : C-5973
Misc : F3FY6 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#34
Trichloroethene
Concen: 10.4686 ug/L
RT: 6.72 min Scan# 1602
Delta R.T. -0.01 min
Lab File: C2582.D
Acq: 12 Mar 2010 23:29

Tgt Ion: 95 Resp: 119852

Ion	Ratio	Lower	Upper
95	100		
97	64.2	43.8	83.8
132	106.8	91.3	131.3
130	110.3	94.8	134.8



000000161

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2582.D Vial: 24
Acq On : 12 Mar 2010 23:29 Operator: SP
Sample : 0011759-03 Inst : C-5973
Misc : F3FY6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

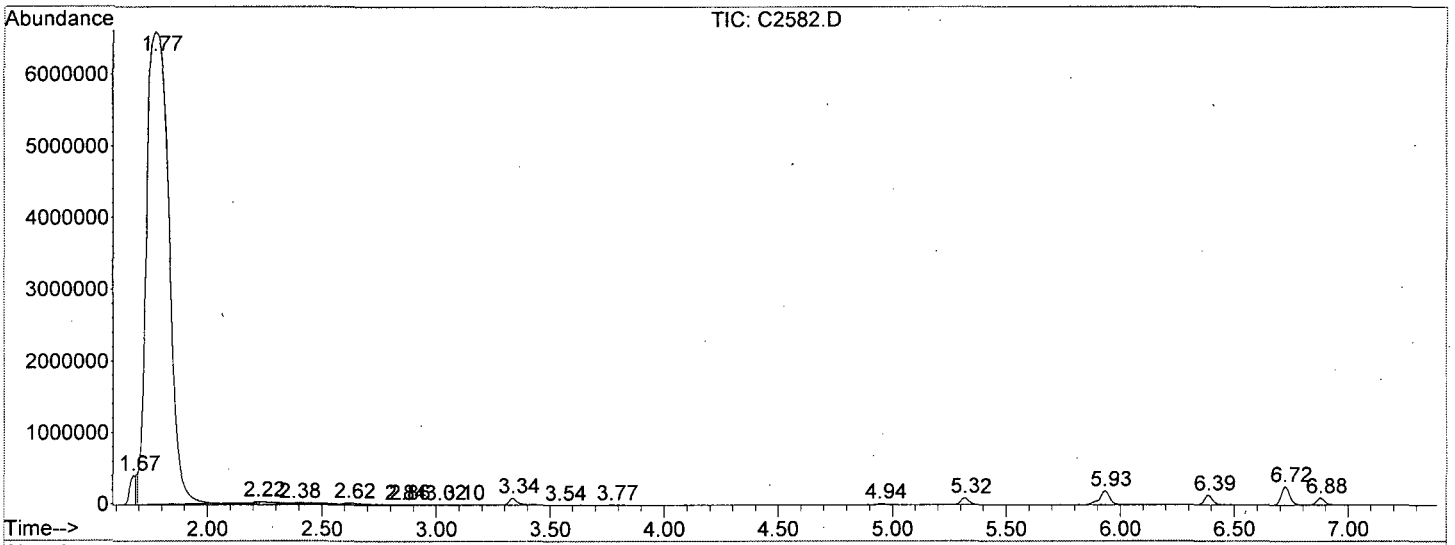
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.675	13	29	32	rBV	417237	693467	1.55%	1.381%
2	1.771	35	59	140	rVB	6597014	44735741	100.00%	89.066%
3	2.224	190	200	202	rBV2	24462	37642	0.08%	0.075%
4	2.378	245	248	249	rBV2	3811	2107	0.00%	0.004%
5	2.618	311	323	326	rBV	19381	37556	0.08%	0.075%
6	2.840	391	392	395	rVB2	3096	1044	0.00%	0.002%
7	2.859	395	398	399	rBV3	2673	1269	0.00%	0.003%
8	3.016	445	447	450	rBV2	1987	1077	0.00%	0.002%
9	3.096	469	472	476	rVB2	2087	1394	0.00%	0.003%
10	3.337	533	547	571	rBV2	97139	243887	0.55%	0.486%
11	3.542	609	611	615	rVB3	1596	1010	0.00%	0.002%
12	3.770	677	682	683	rBV3	4010	3154	0.01%	0.006%
13	4.945	1038	1048	1059	rBV	16320	36962	0.08%	0.074%
14	5.320	1148	1165	1184	rBV3	92808	234493	0.52%	0.467%
15	5.933	1325	1356	1380	rBV3	195260	613357	1.37%	1.221%
16	6.389	1481	1498	1516	rBV2	133564	338877	0.76%	0.675%
17	6.722	1583	1602	1625	rBV2	259590	670616	1.50%	1.335%
18	6.880	1635	1651	1673	rBV2	97425	247574	0.55%	0.493%
19	7.852	1938	1954	1978	rBV5	96223	251134	0.56%	0.500%
20	8.288	2071	2090	2113	rBV	218131	584772	1.31%	1.164%
21	8.619	2178	2193	2207	rBV5	45543	116215	0.26%	0.231%
22	8.921	2283	2287	2288	rBV2	1570	1044	0.00%	0.002%
23	8.943	2288	2294	2306	rVB4	3212	4996	0.01%	0.010%
24	9.209	2365	2377	2380	rBV2	38453	58351	0.13%	0.116%
25	10.409	2730	2751	2771	rBV4	140642	390175	0.87%	0.777%
26	12.145	3280	3292	3307	rBV3	54808	107089	0.24%	0.213%
27	12.287	3328	3336	3347	rVB5	5228	8866	0.02%	0.018%
28	13.243	3618	3634	3648	rBV2	224289	377322	0.84%	0.751%
29	13.593	3731	3743	3759	rBV	253650	417636	0.93%	0.831%
30	13.689	3767	3773	3777	rBV4	3861	3679	0.01%	0.007%
31	14.036	3873	3881	3882	rBV	4373	3218	0.01%	0.006%
32	14.042	3882	3883	3888	rVB2	2901	1696	0.00%	0.003%

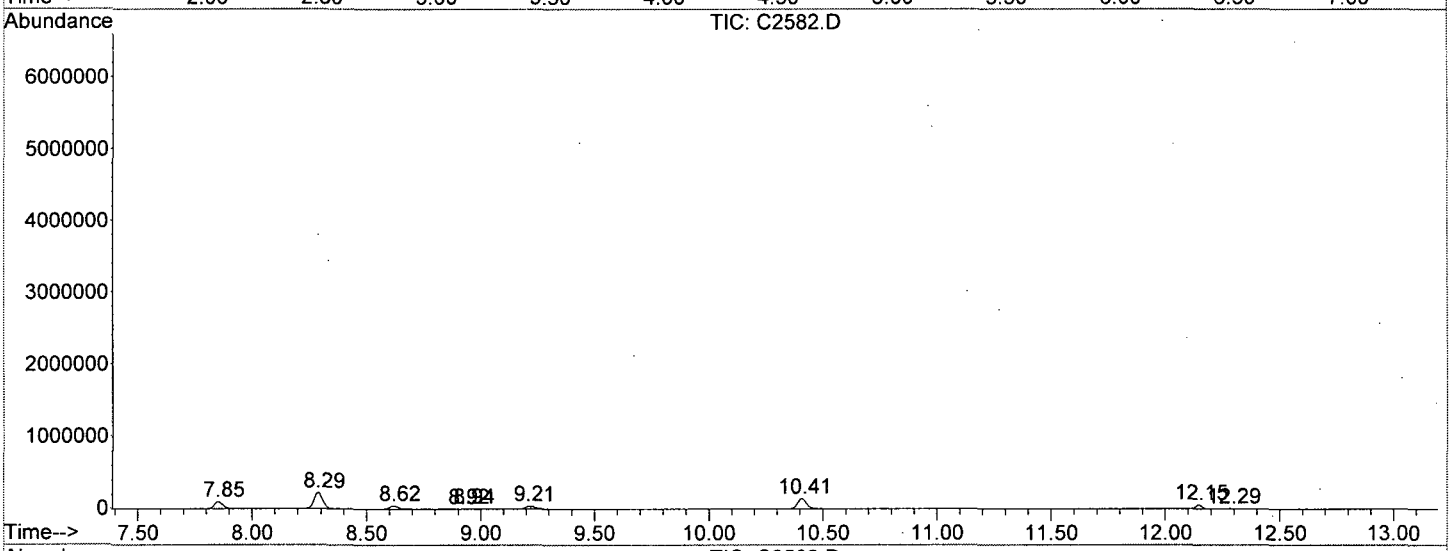
Sum of corrected areas: 50227420

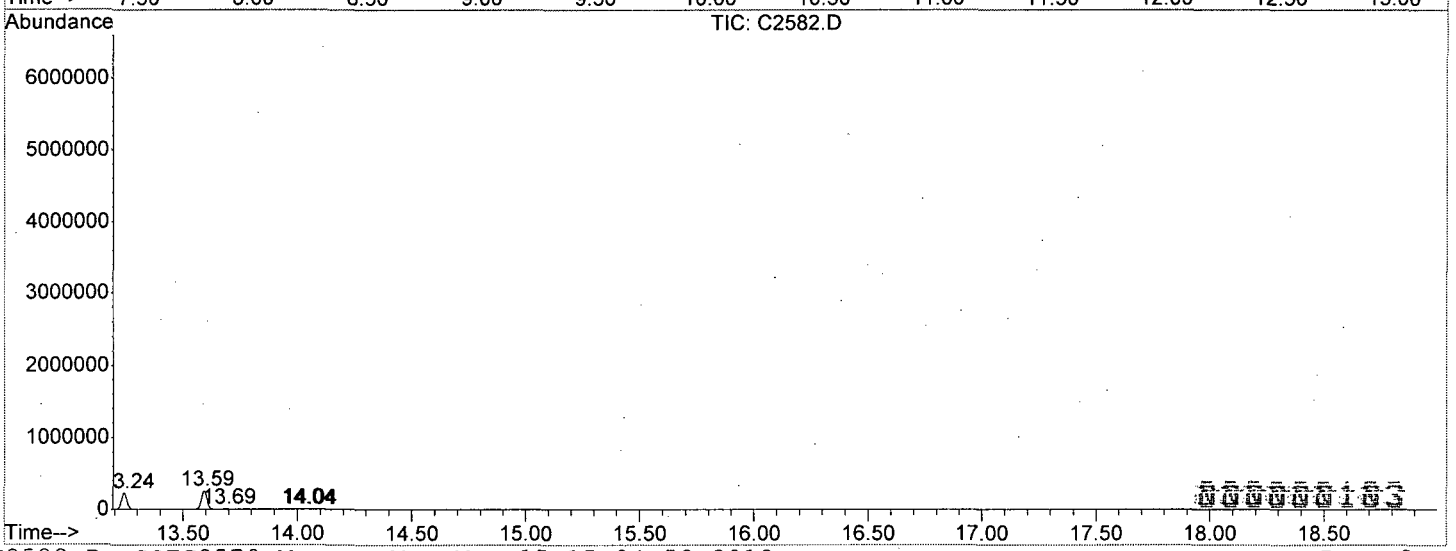
000000182

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2582.D Vial: 24
Acq On : 12 Mar 2010 23:29 Operator: SP
Sample : 0011759-03 Inst : C-5973
Misc : F3FY6 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2582.D Vial: 24
Acq On : 12 Mar 2010 23:29 Operator: SP
Sample : 0011759-03 Inst : C-5973
Misc : F3FY6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

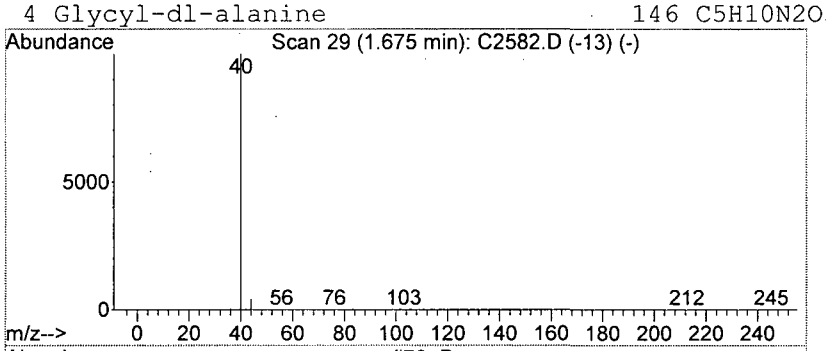
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

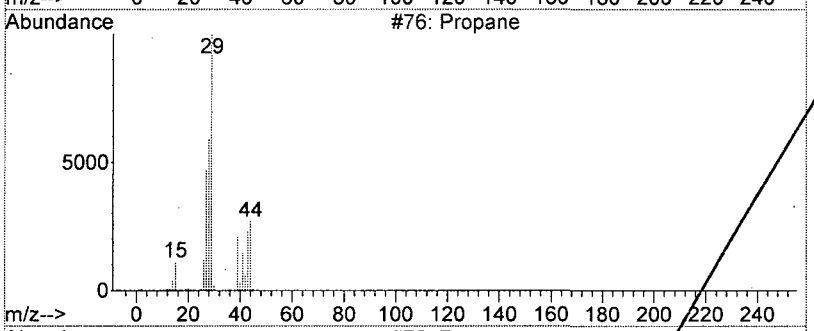
****

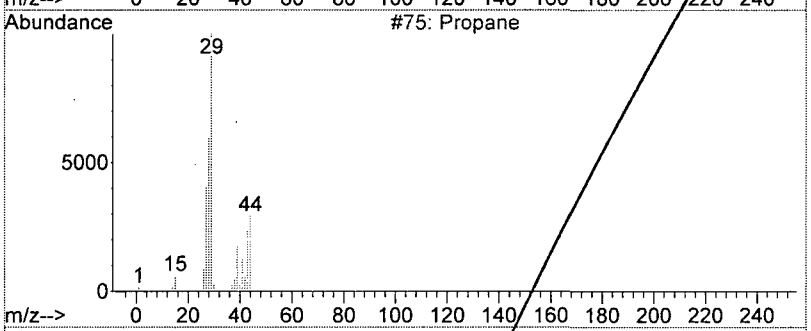
Peak Number 1 Propane Concentration Rank 2

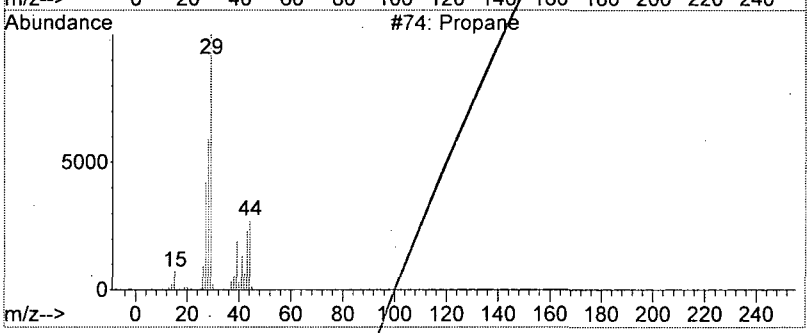
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	10.23 ug/L	693467	1,4-Difluorobenzene	6.39

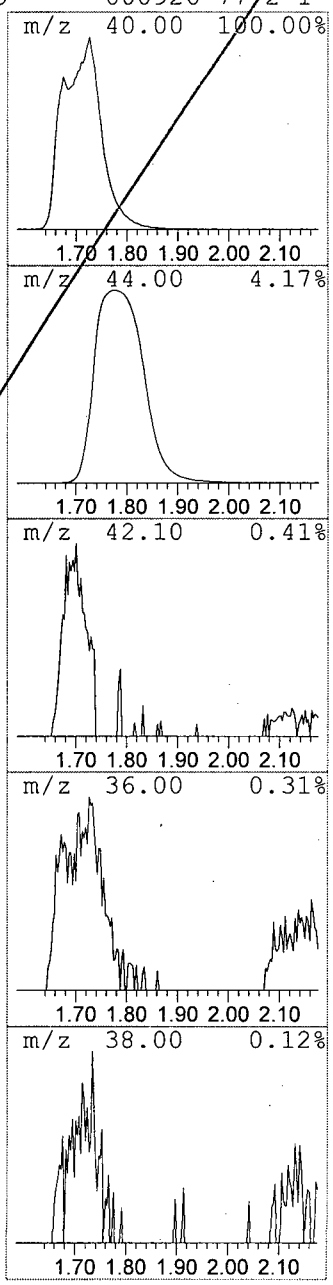
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	1
2	Propane	44	C3H8	000074-98-6	1
3	Propane	44	C3H8	000074-98-6	1
4	Glycyl-dl-alanine	146	C5H10N2O3	000926-77-2	1











Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2582.D
Acq On : 12 Mar 2010 23:29
Sample : 0011759-03
Misc : F3FY6 25ML
MS Integration Params: Lscint.p

Vial: 24
Operator: SP
Inst : C-5973
Multiplr: 1.00

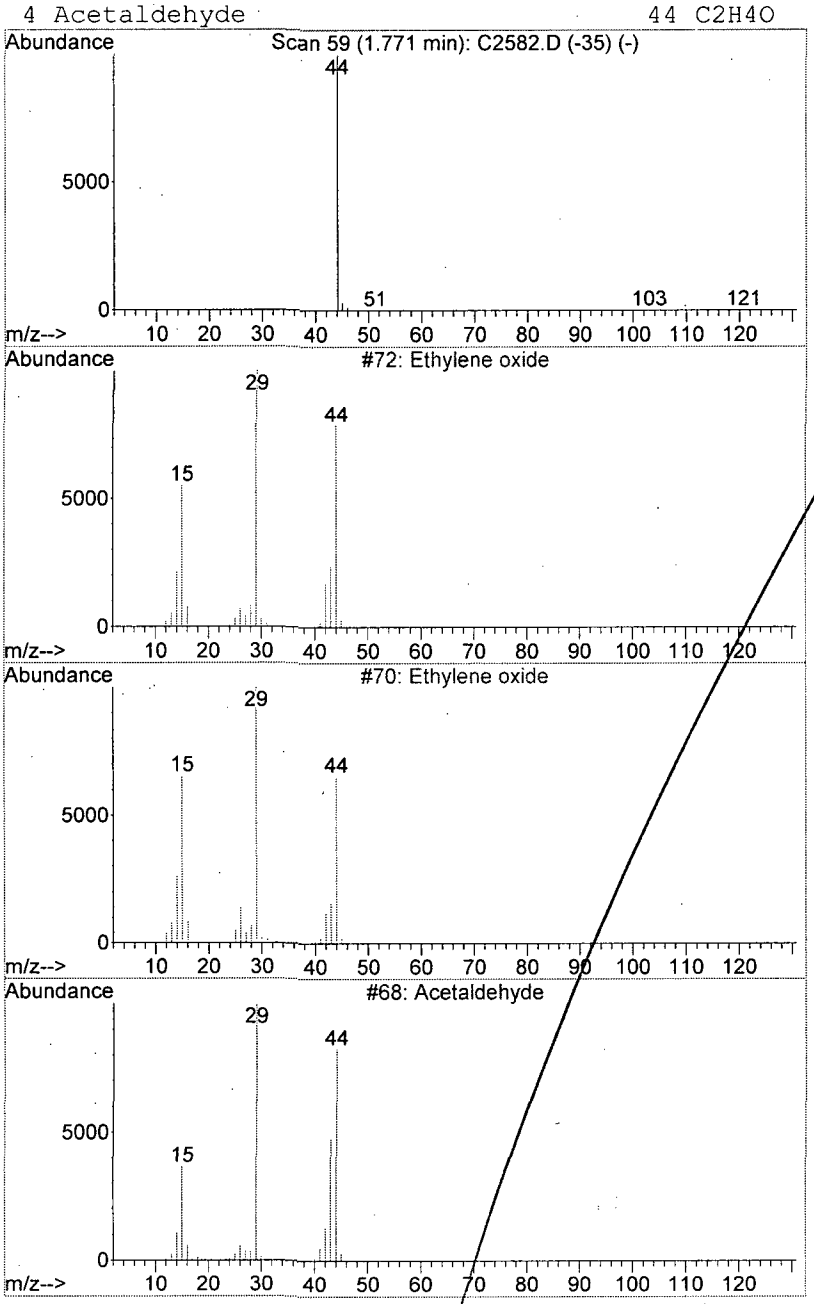
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

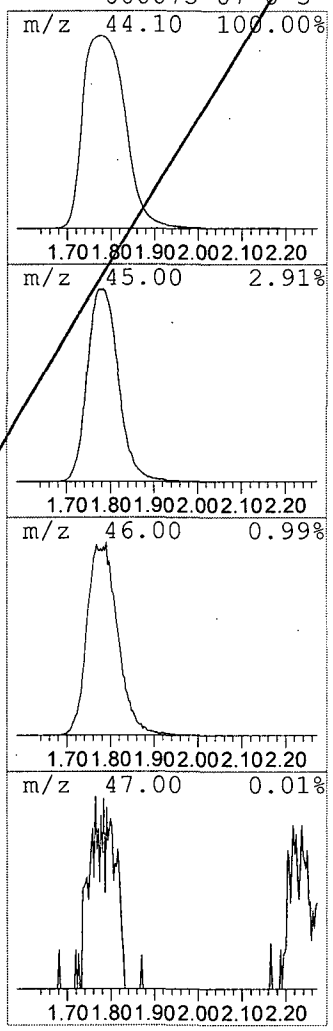
****

Peak Number 2 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.77	660.06 ug/L	44735700	1,4-Difluorobenzene	6.39

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	4
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





000000185

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2582.D Vial: 24
Acq On : 12 Mar 2010 23:29 Operator: SP
Sample : 0011759-03 Inst : C-5973
Misc : F3FY6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

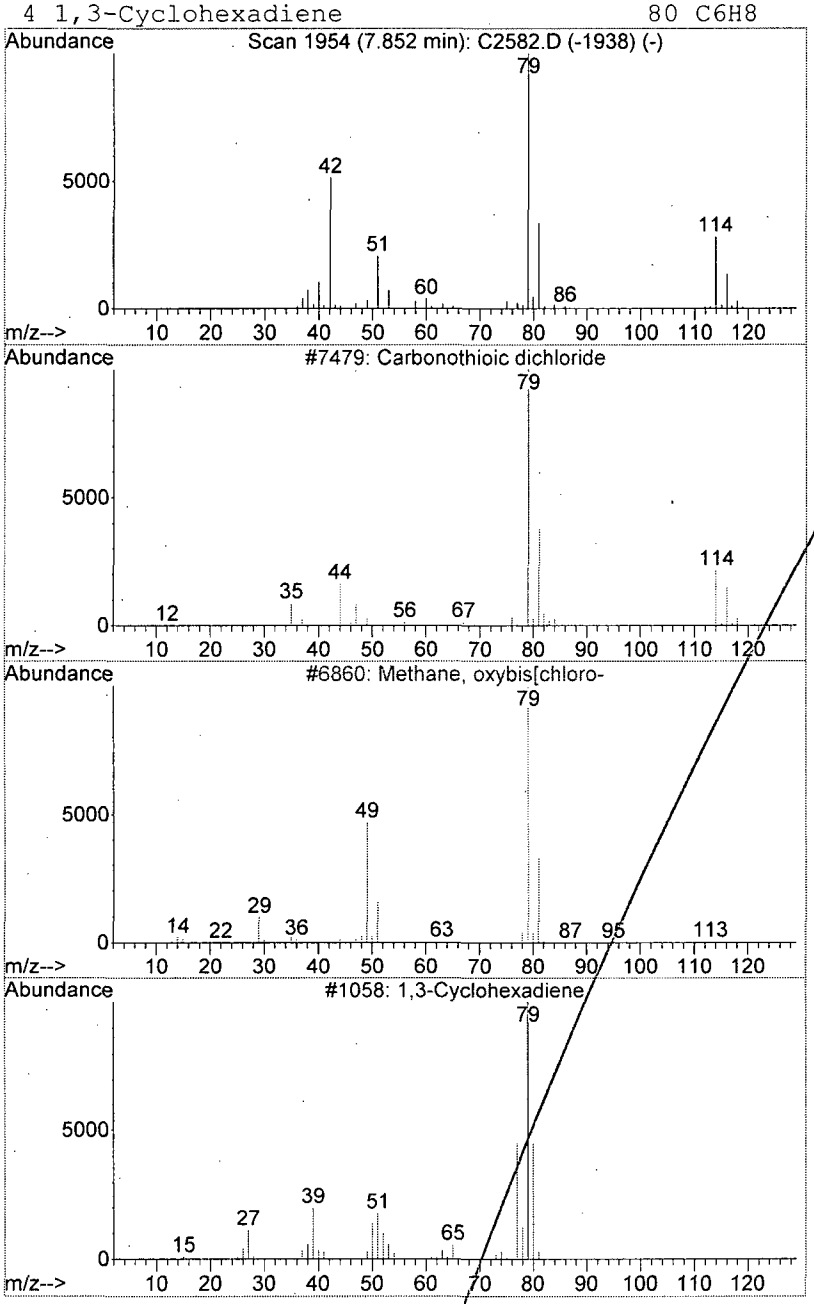
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

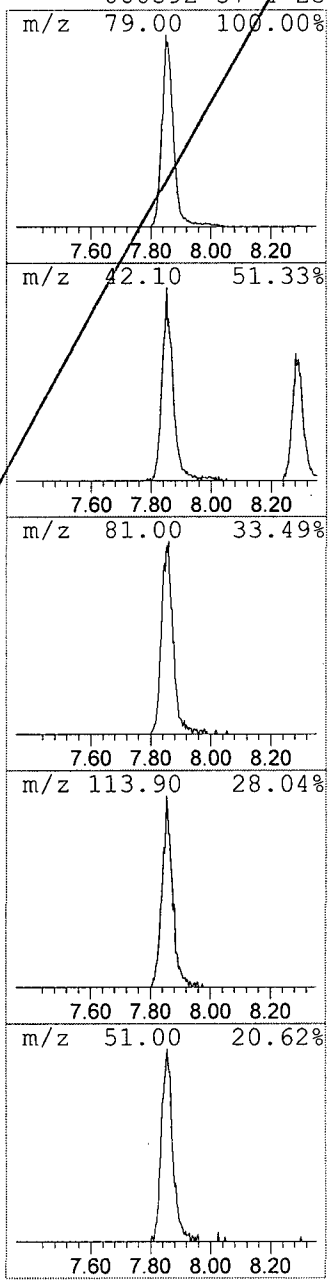
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.71 ug/L	251134	1,4-Difluorobenzene	6.39

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	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25





Done after cut

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 23:29
Data File: C:\MSDCHEM\1\DATA\C2582.D
Name: 0011759-03
Misc: F3FY6 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Propane	1.67	10.2	ug/L	693467	1	6.39	338877	5.0
Ethylene oxide	1.77	660.1	ug/L	44735700	1	6.39	338877	5.0
Carbonothioic dic...	7.85	3.7	ug/L	251134	1	6.39	338877	5.0

000008187

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

EPA SAMPLE NO.
F3FY7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2580.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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	0.39	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	0.50	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
79-01-6	Trichloroethene	2.5	

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

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

EPA SAMPLE NO.

F3FY7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2580.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FY7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2580.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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.

000000110

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2580.D
Acq On : 12 Mar 2010 22:36
Sample : 0011759-01
Misc : F3FY7 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:45:58 2010

Vial: 22
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	171084	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	143652	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	68081	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.21	65	112456	5.7323 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 114.65%		
7) Chloroethane-d5	2.62	69	92882	5.6227 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 112.45%		
10) 1,1-Dichloroethene-d2	3.33	63	101472	4.4254 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 88.51%		
20) 2-Butanone-d5	4.95	46	33200	36.1691 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 72.34%		
24) Chloroform-d	5.31	84	101066	4.9000 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 98.00%		
26) 1,2-Dichloroethane-d4	5.89	65	44548	4.3722 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 87.44%		
32) Benzene-d6	5.93	84	253360	5.8251 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 116.50%		
35) 1,2-Dichloropropane-d6	6.88	67	63895	5.0129 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 100.26%		
41) Toluene-d8	8.29	98	237750	5.6754 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 113.51%		
43) trans-1,3-Dichloropropene-	8.62	79	43553	3.7455 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 74.91%		
47) 2-Hexanone-d5	9.21	63	25183	36.2164 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 72.43%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	34520	3.7347 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 74.69%		
63) 1,2-Dichlorobenzene-d4	13.59	152	76013	5.3169 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 106.34%		

Target Compounds					Qvalue
16) Methylene Chloride	3.77	84	5674	0.3873 ug/L	95
34) Trichloroethene	6.72	95	29238	2.5026 ug/L	98

000000111

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

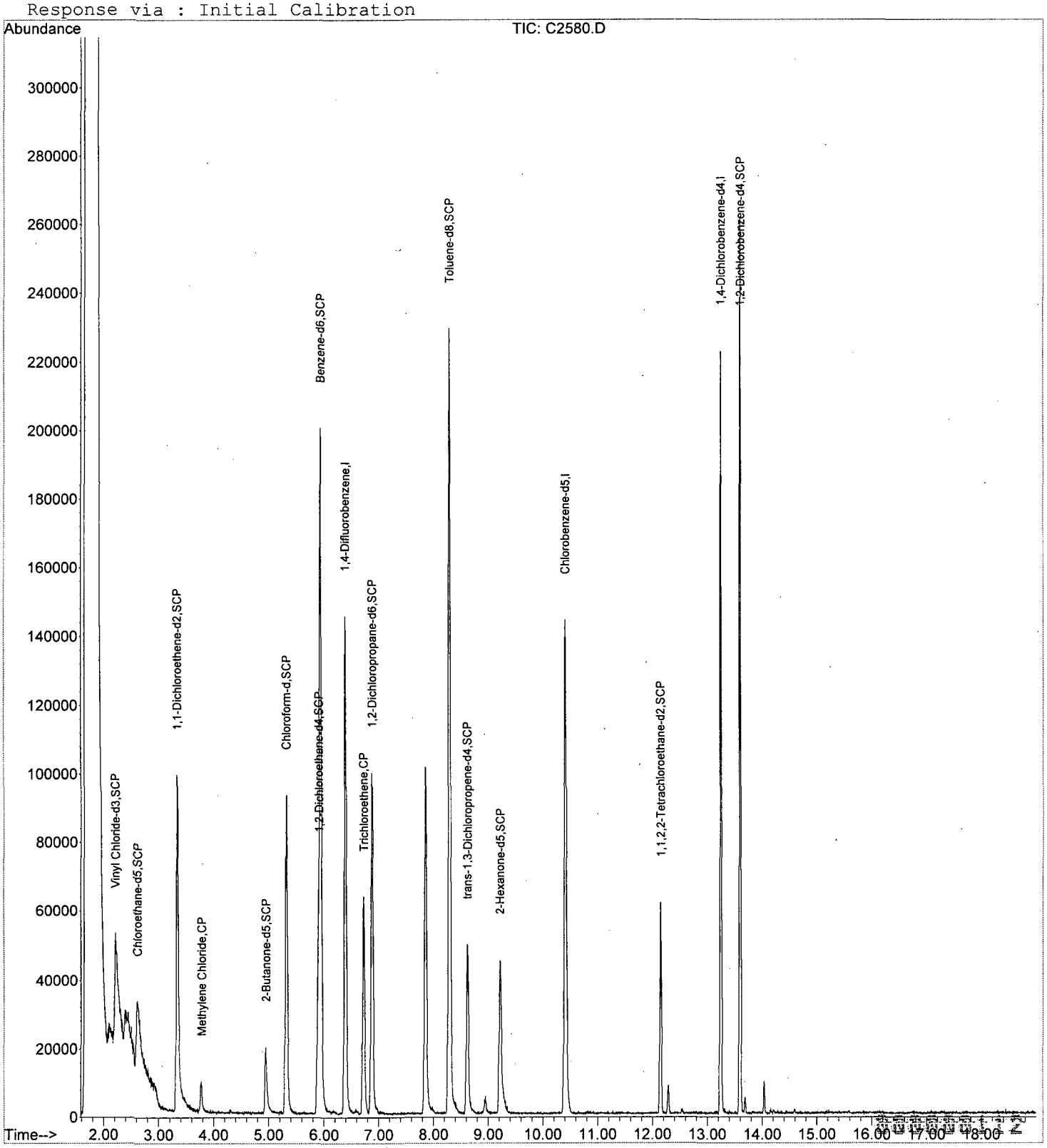
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2580.D
Acq On : 12 Mar 2010 22:36
Sample : 0011759-01
Misc : F3FY7 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:56 2010

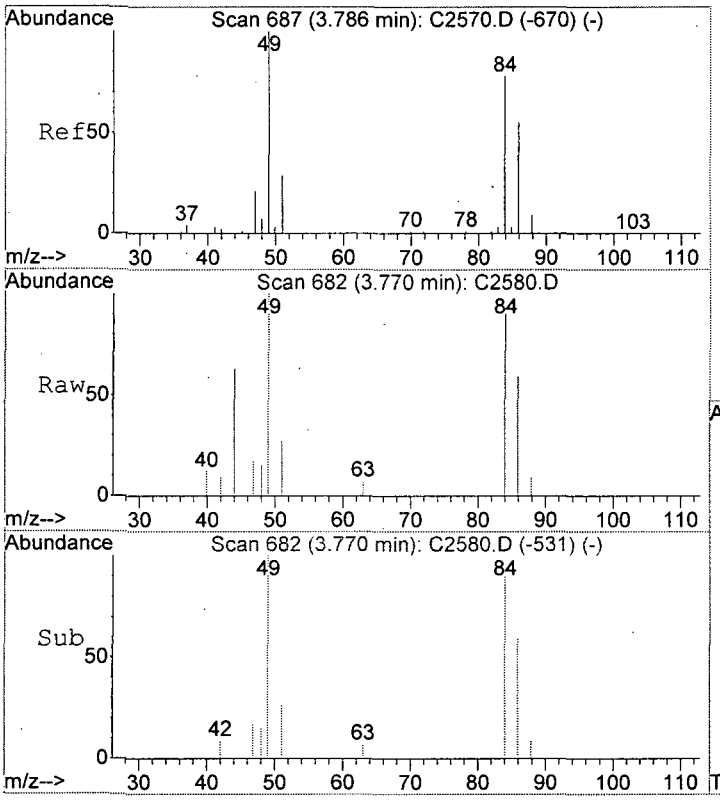
Vial: 22
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



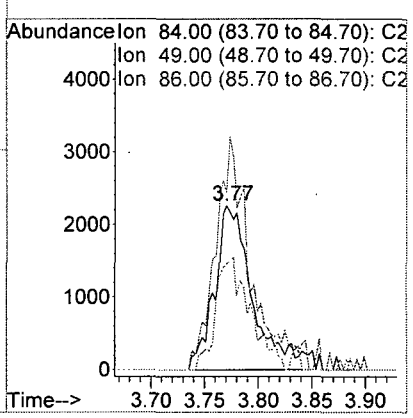
Data File : C:\MSDCHEM\1\DATA\C2580.D Vial: 22
Acq On : 12 Mar 2010 22:36 Operator: SP
Sample : 0011759-01 Inst : C-5973
Misc : F3FY7 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

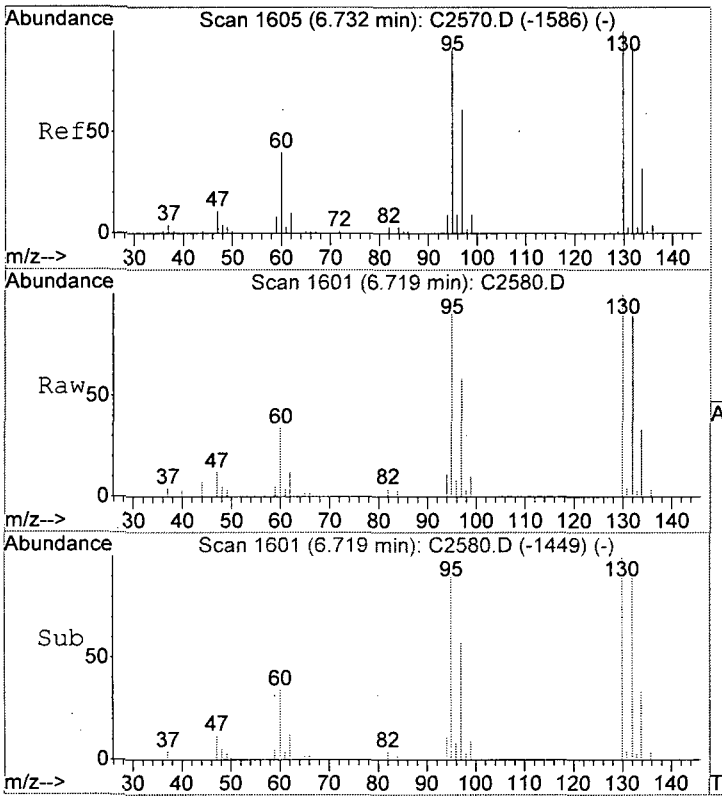


#16
Methylene Chloride
Concen: 0.3873 ug/L
RT: 3.77 min Scan# 682
Delta R.T. -0.02 min
Lab File: C2580.D
Acq: 12 Mar 2010 22:36

Tgt Ion: 84 Resp: 5674

Ion	Ratio	Lower	Upper
84	100		
49	128.0	102.8	142.8
86	61.0	44.9	84.9

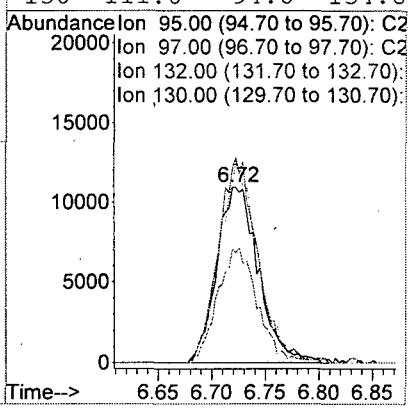




#34
Trichloroethene
Concen: 2.5026 ug/L
RT: 6.72 min Scan# 1601
Delta R.T. -0.01 min
Lab File: C2580.D
Acq: 12 Mar 2010 22:36

Tgt Ion: 95 Resp: 29238

Ion	Ratio	Lower	Upper
95	100		
97	63.0	43.8	83.8
132	109.3	91.3	131.3
130	111.0	94.8	134.8



000000113

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2580.D Vial: 22
Acq On : 12 Mar 2010 22:36 Operator: SP
Sample : 0011759-01 Inst : C-5973
Misc : F3FY7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

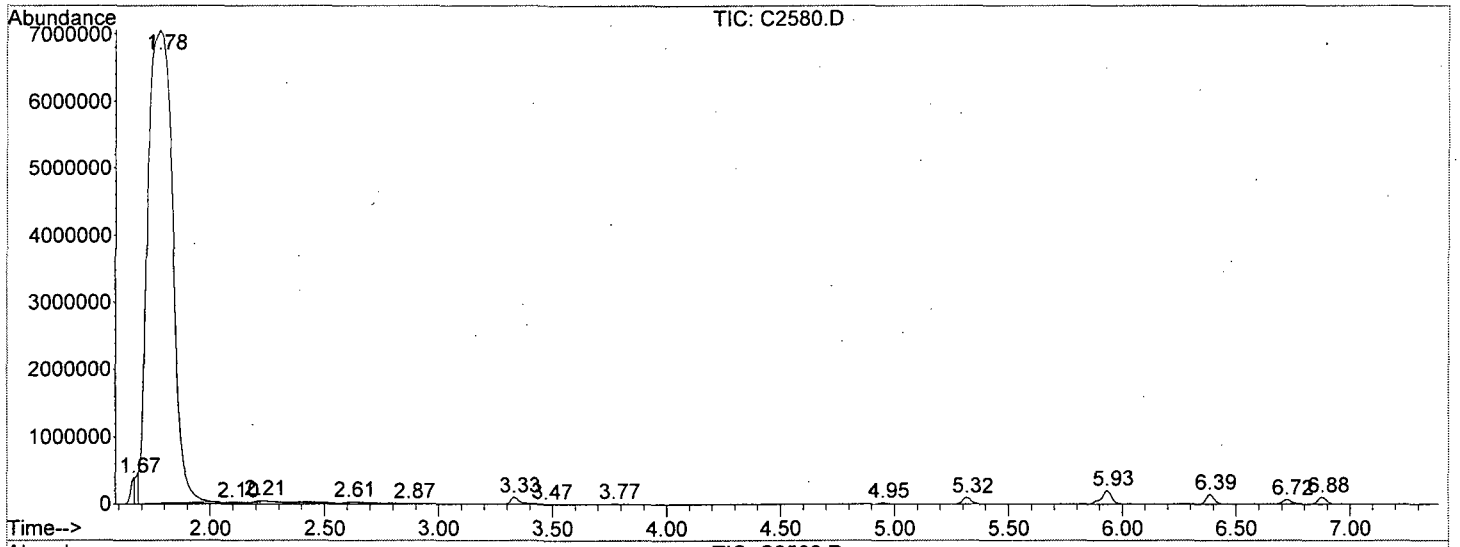
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.665	10	26	27	rBV	390733	452305	0.85%	0.783%
2	1.781	32	62	137	rVB	7044174	52930558	100.00%	91.645%
3	2.095	158	160	161	rBV2	4471	1720	0.00%	0.003%
4	2.214	188	197	199	rBV	27621	34312	0.06%	0.059%
5	2.606	310	319	320	rBV2	18272	20270	0.04%	0.035%
6	2.869	400	401	403	rBV	2905	1187	0.00%	0.002%
7	3.331	532	545	570	rBV2	97883	255724	0.48%	0.443%
8	3.472	587	589	593	rVB4	1691	1091	0.00%	0.002%
9	3.767	671	681	683	rBV4	8276	9206	0.02%	0.016%
10	4.948	1038	1049	1072	rBV	19250	49863	0.09%	0.086%
11	5.317	1146	1164	1188	rBV2	93055	243280	0.46%	0.421%
12	5.933	1326	1356	1382	rBV4	199892	633552	1.20%	1.097%
13	6.386	1478	1497	1515	rBV	144870	348259	0.66%	0.603%
14	6.723	1585	1602	1626	rBV4	63424	168663	0.32%	0.292%
15	6.880	1632	1651	1671	rBV2	99167	262891	0.50%	0.455%
16	7.849	1938	1953	1954	rBV	100877	130109	0.25%	0.225%
17	8.285	2072	2089	2110	rBV	228622	589966	1.11%	1.021%
18	8.407	2126	2127	2132	rVB3	1790	1009	0.00%	0.002%
19	8.616	2176	2192	2211	rBV5	49505	134566	0.25%	0.233%
20	8.924	2282	2288	2289	rBV3	1952	1651	0.00%	0.003%
21	8.937	2289	2292	2294	rVV2	3955	2922	0.01%	0.005%
22	8.950	2294	2296	2309	rVB4	4801	5303	0.01%	0.009%
23	9.213	2361	2378	2395	rBV4	44724	132484	0.25%	0.229%
24	10.410	2734	2751	2770	rBV2	143314	388906	0.73%	0.673%
25	12.146	3280	3292	3306	rBV2	61379	115519	0.22%	0.200%
26	12.290	3327	3337	3347	rVB2	8305	14422	0.03%	0.025%
27	12.537	3409	3414	3415	rBV2	1451	1143	0.00%	0.002%
28	13.240	3620	3633	3650	rBV2	222595	379767	0.72%	0.658%
29	13.593	3730	3743	3757	rBV	261257	424994	0.80%	0.736%
30	13.686	3766	3772	3779	rVB6	4639	6220	0.01%	0.011%
31	14.039	3873	3882	3889	rBV2	9660	13093	0.02%	0.023%
32	14.206	3930	3934	3935	rBV2	1415	1013	0.00%	0.002%

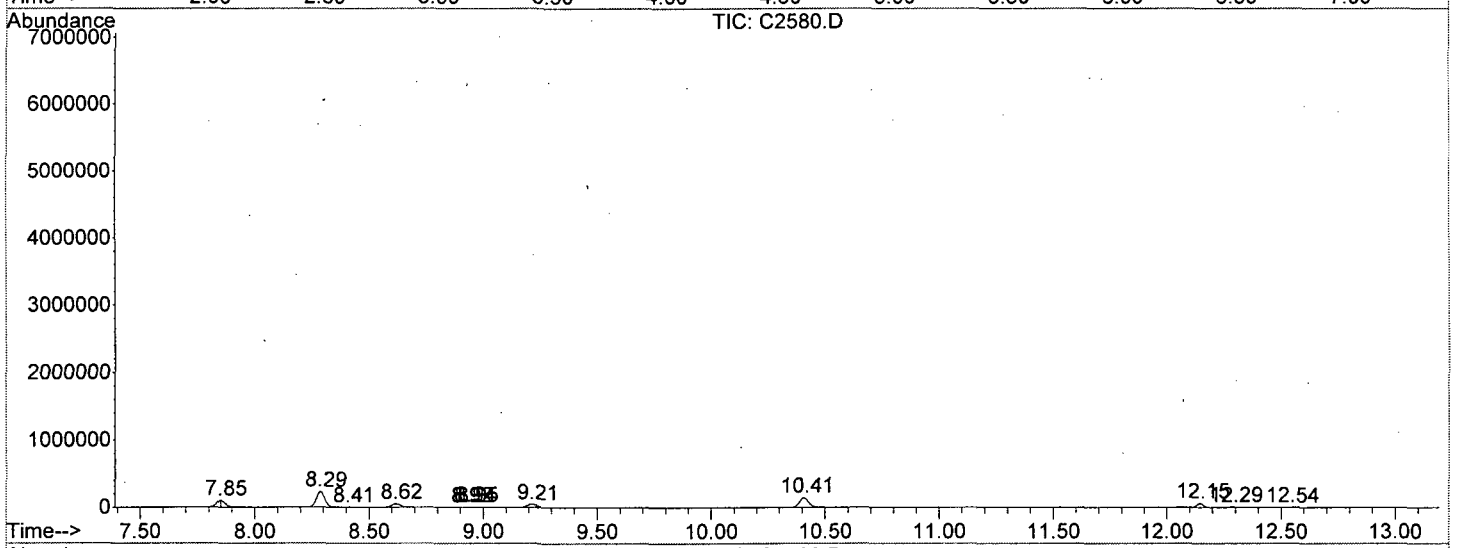
Sum of corrected areas: 57755968

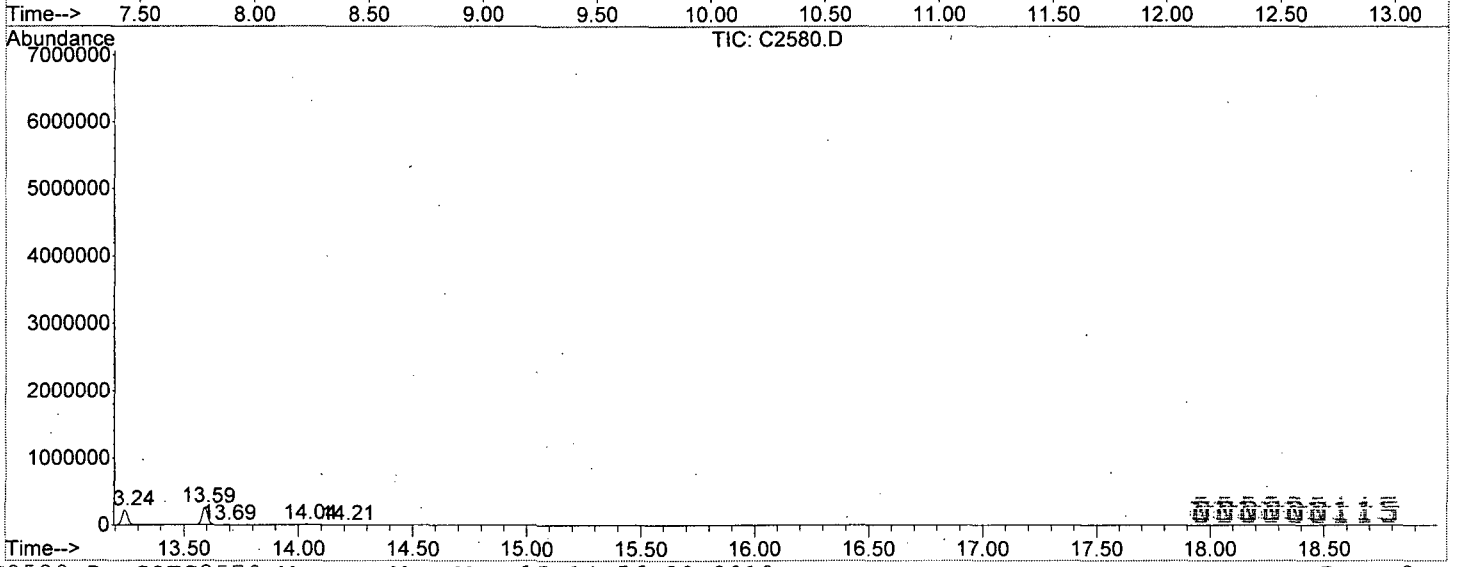
000000114

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2580.D Vial: 22
Acq On : 12 Mar 2010 22:36 Operator: SP
Sample : 0011759-01 Inst : C-5973
Misc : F3FY7 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2580.D Vial: 22
Acq On : 12 Mar 2010 22:36 Operator: SP
Sample : 0011759-01 Inst : C-5973
Misc : F3FY7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

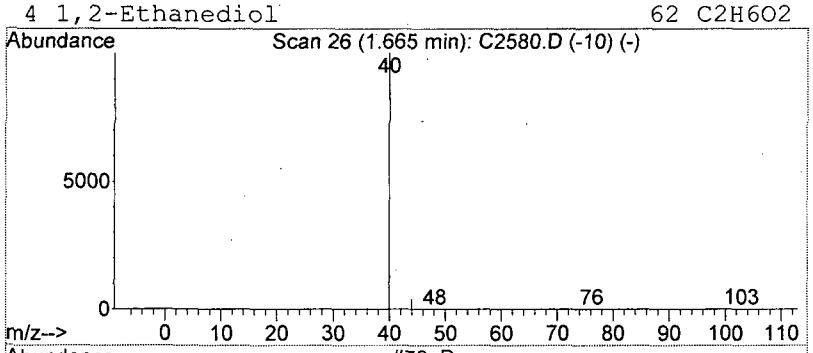
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

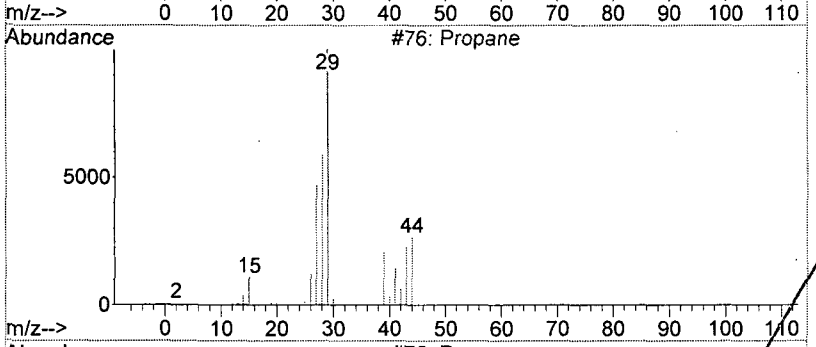
****

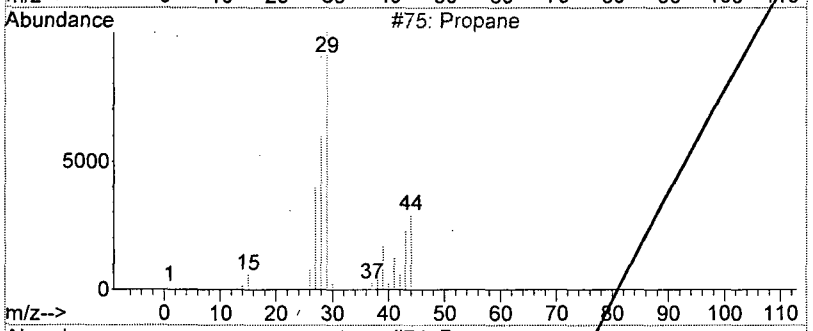
Peak Number 1 Propane Concentration Rank 2

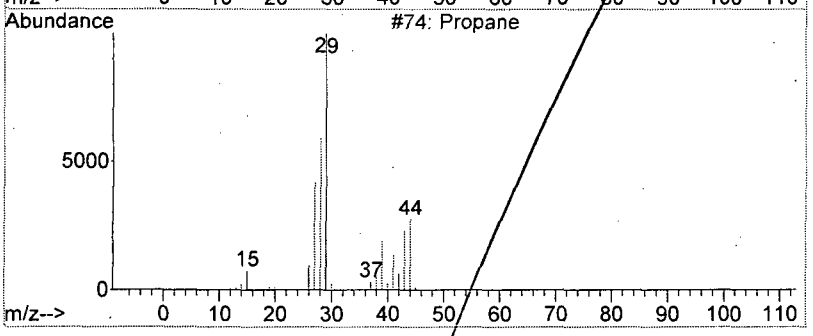
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	6.49 ug/L	452305	1,4-Difluorobenzene	6.39

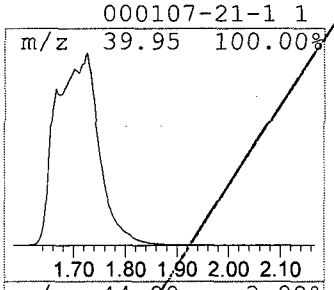
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	1
2	Propane	44	C3H8	000074-98-6	1
3	Propane	44	C3H8	000074-98-6	1
4	1,2-Ethanediol	62	C2H6O2	000107-21-1	1

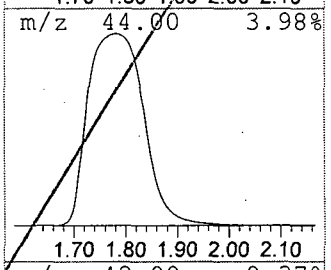


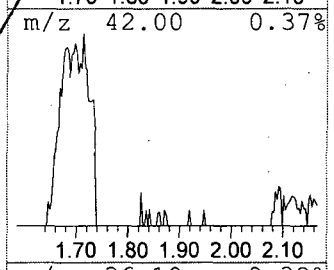


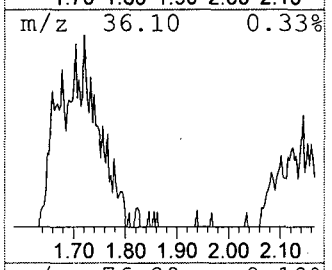


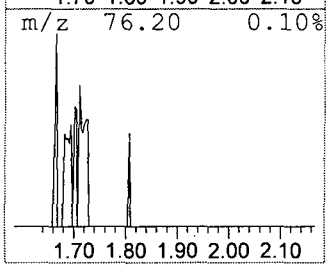












Q02

000000116

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2580.D Vial: 22
Acq On : 12 Mar 2010 22:36 Operator: SP
Sample : 0011759-01 Inst : C-5973
Misc : F3FY7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

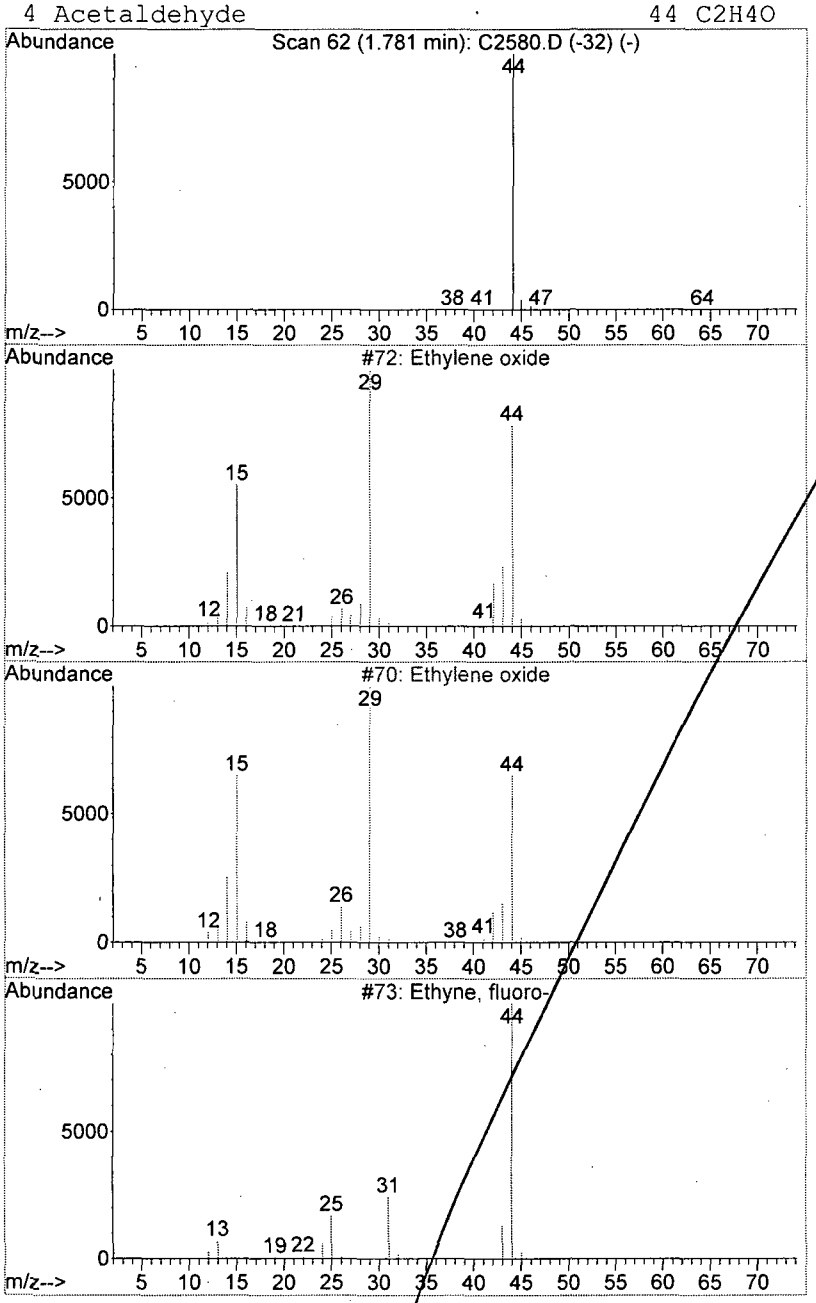
****

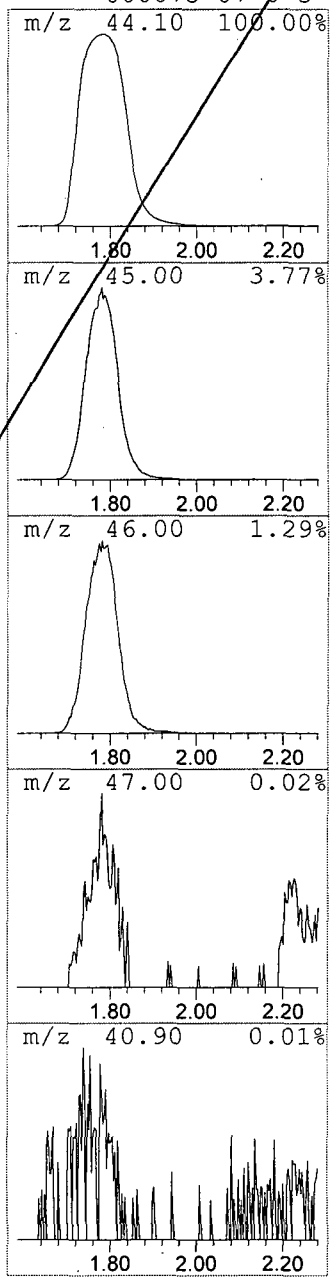
Peak Number 2 Ethylene oxide Concentration Rank 1

Co2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	759.93 ug/L	52930600	1,4-Difluorobenzene	6.39

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	4
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





000000117

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2580.D Vial: 22
Acq On : 12 Mar 2010 22:36 Operator: SP
Sample : 0011759-01 Inst : C-5973
Misc : F3FY7 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

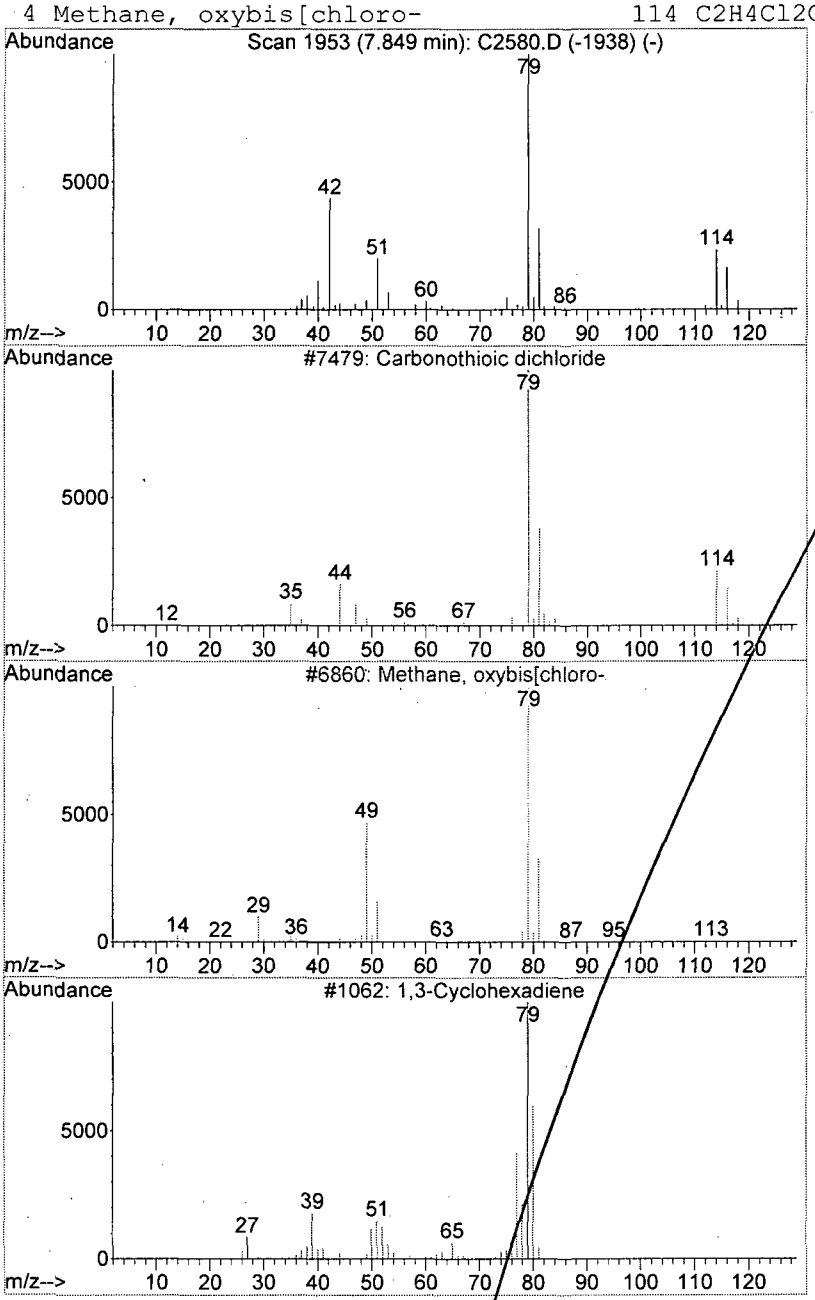
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

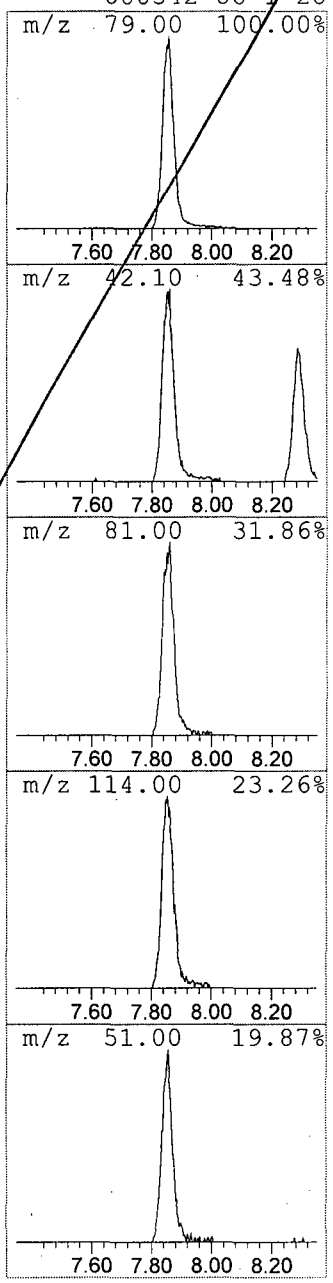
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	1.87 ug/L	130109	1,4-Difluorobenzene	6.39

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	37
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	37
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	28





Done only art

000000118

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 22:36
Data File: C:\MSDCHEM\1\DATA\C2580.D
Name: 0011759-01
Misc: F3FY7 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Propane	1.67	6.5	ug/L	452305	1	6.39	348259	5.0
Ethylene oxide	1.78	759.9	ug/L	52930600	1	6.39	348259	5.0
Carbonothioic dic...	7.85	1.9	ug/L	130109	1	6.39	348259	5.0

000000115

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

EPA SAMPLE NO.
F3FZ0

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2561.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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	2.8	J
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
79-01-6	Trichloroethene	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.

F3FZ0

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2561.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FZ0

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2561.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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\C2561.D Vial: 3
Acq On : 12 Mar 2010 13:36 Operator: SP
Sample : 0011765-01 Inst : C-5973
Misc : F3FZ0 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 14:01:42 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	226361	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	190992	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.25	152	87622	5.0000 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	2.24	65	143626	5.5333 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 110.67%		
7) Chloroethane-d5	2.63	69	112707	5.1567 ug/L	0.01
Spiked Amount 5.0000	Range 71 - 131		Recovery = 103.13%		
10) 1,1-Dichloroethene-d2	3.34	63	133358	4.3957 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 87.91%		
20) 2-Butanone-d5	4.95	46	35337	29.0962 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 58.19%		
24) Chloroform-d	5.32	84	126083	4.6202 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 92.40%		
26) 1,2-Dichloroethane-d4	5.89	65	51219	3.7994 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 75.99%#		
32) Benzene-d6	5.94	84	319223	5.5202 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 110.40%		
35) 1,2-Dichloropropane-d6	6.88	67	77667	4.5831 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 91.66%		
41) Toluene-d8	8.29	98	308167	5.5330 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 110.66%		
43) trans-1,3-Dichloropropene-	8.63	79	63883	4.1321 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 82.64%		
47) 2-Hexanone-d5	9.22	63	26781	28.9682 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 57.94%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	38462	3.1298 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 62.60%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	89204	4.8480 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 96.96%		
Target Compounds					Qvalue
22) 2-Butanone	5.01	43	12802	2.8221 ug/L	92

000000123

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

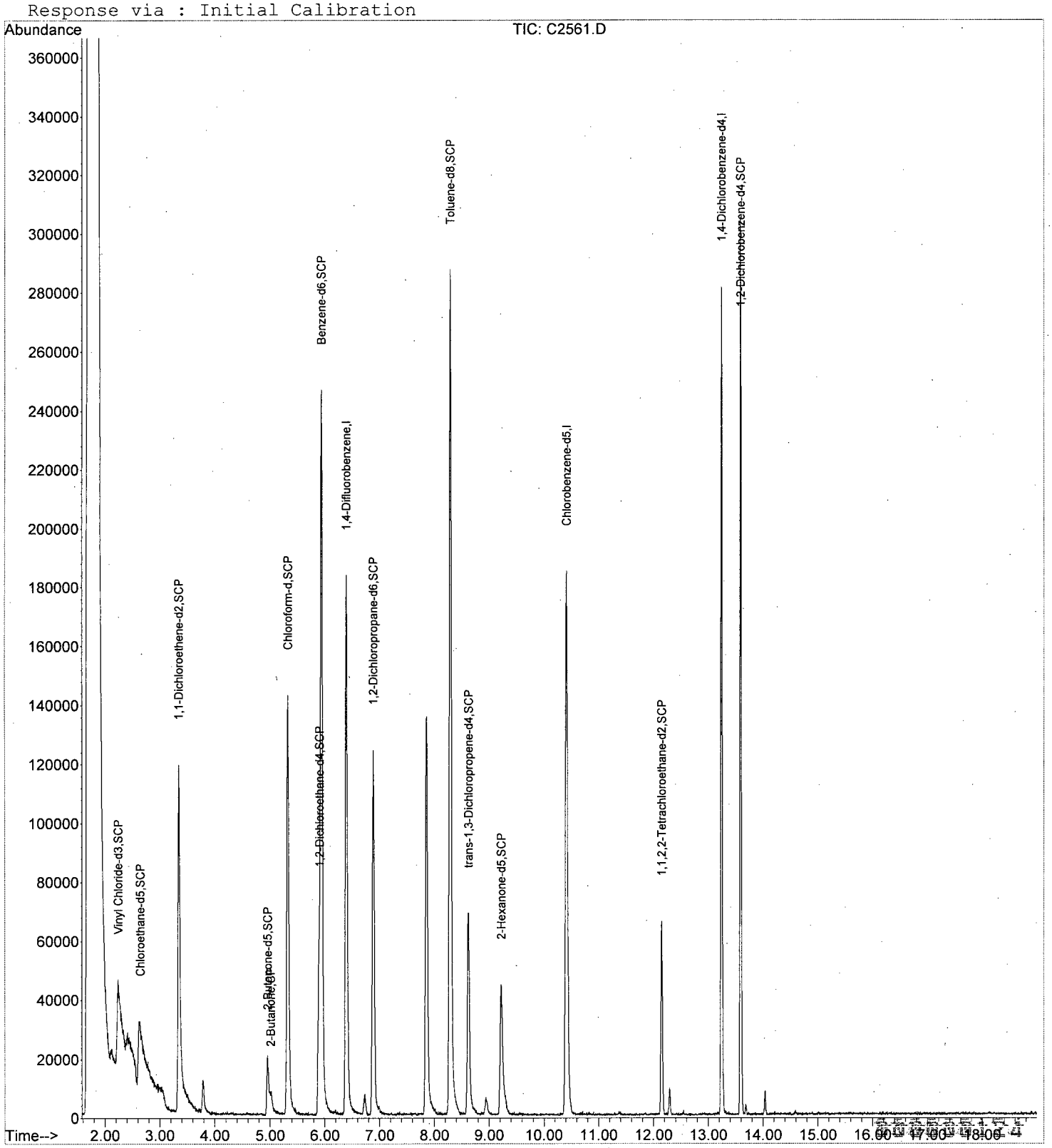
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2561.D
Acq On : 12 Mar 2010 13:36
Sample : 0011765-01
Misc : F3FZ0 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:11 2010

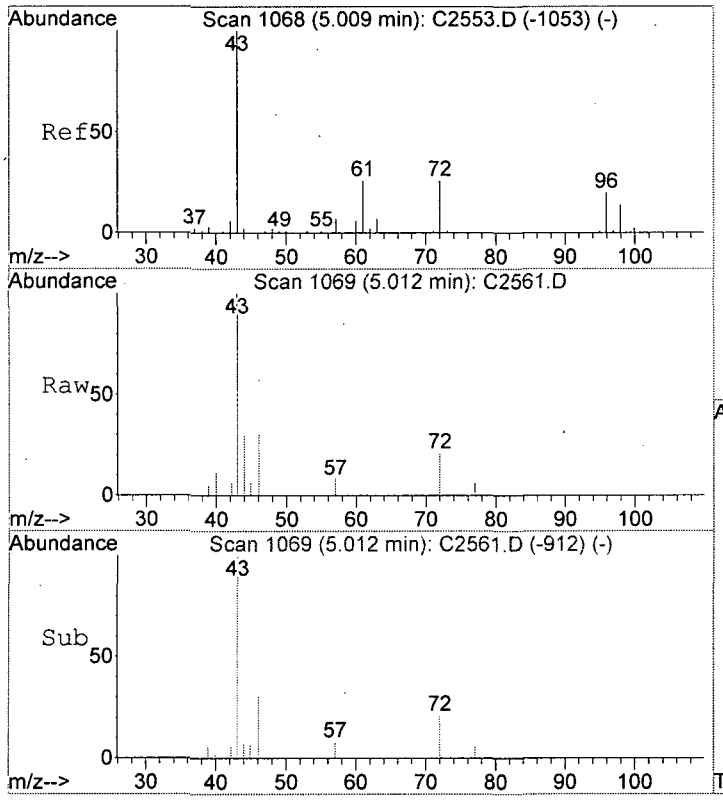
Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



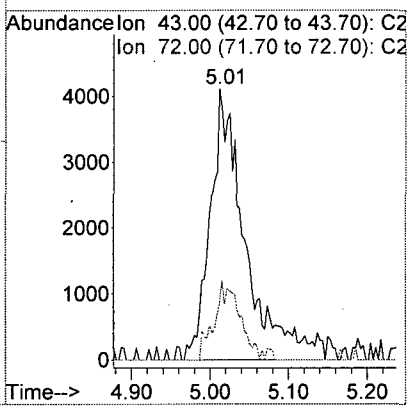
Data File : C:\MSDCHEM\1\DATA\C2561.D Vial: 3
Acq On : 12 Mar 2010 13:36 Operator: SP
Sample : 0011765-01 Inst : C-5973
Misc : F3FZ0 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#22
2-Butanone
Concen: 2.8221 ug/L
RT: 5.01 min Scan# 1069
Delta R.T. 0.00 min
Lab File: C2561.D
Acq: 12 Mar 2010 13:36

Tgt Ion: 43 Resp: 12802

Ion	Ratio	Lower	Upper
43	100		
72	21.0	5.2	45.2



000000125

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2561.D
Acq On : 12 Mar 2010 13:36
Sample : 0011765-01
Misc : F3FZ0 25ML
MS Integration Params: Lscint.p

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1000 Area counts
Max Peaks: 40
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.790	12	65	131	rBV	6868876	37404935	100.00%	87.396%
2	2.240	195	205	207	rBV2	24768	37314	0.10%	0.087%
3	2.622	314	324	326	rBV2	21520	31758	0.08%	0.074%
4	3.080	466	467	474	rVB3	3584	2656	0.01%	0.006%
5	3.344	537	549	568	rBV3	116437	291023	0.78%	0.680%
6	3.777	676	684	685	rBV3	9771	8128	0.02%	0.019%
7	4.954	1038	1051	1056	rBV	20545	38178	0.10%	0.089%
8	5.327	1149	1167	1188	rBV3	142077	372939	1.00%	0.871%
9	5.940	1326	1358	1382	rBV3	246158	773011	2.07%	1.806%
10	6.033	1385	1387	1393	rVB6	2550	2766	0.01%	0.006%
11	6.389	1482	1498	1519	rBV2	182705	456977	1.22%	1.068%
12	6.719	1591	1601	1602	rBV5	5608	7376	0.02%	0.017%
13	6.729	1602	1604	1605	rVV2	6943	3327	0.01%	0.008%
14	6.739	1605	1607	1616	rVB3	5290	5194	0.01%	0.012%
15	6.880	1634	1651	1671	rBV2	123519	314364	0.84%	0.735%
16	6.992	1685	1686	1692	rVB3	2341	1508	0.00%	0.004%
17	7.858	1938	1956	1975	rBV3	134895	363120	0.97%	0.848%
18	8.292	2070	2091	2112	rBV2	286886	765325	2.05%	1.788%
19	8.619	2179	2193	2194	rBV2	68206	93493	0.25%	0.218%
20	8.924	2282	2288	2289	rBV3	2791	2340	0.01%	0.005%
21	8.943	2289	2294	2306	rVB6	5024	10173	0.03%	0.024%
22	9.219	2363	2380	2403	rBV5	44033	146496	0.39%	0.342%
23	10.413	2732	2752	2777	rBV3	184278	523459	1.40%	1.223%
24	12.149	3280	3293	3308	rVB3	65611	128389	0.34%	0.300%
25	12.293	3327	3338	3349	rVB3	9293	15667	0.04%	0.037%
26	13.243	3621	3634	3651	rBV2	281031	481033	1.29%	1.124%
27	13.314	3654	3656	3661	rVB	1474	1047	0.00%	0.002%
28	13.593	3731	3743	3759	rBV	304547	502624	1.34%	1.174%
29	13.686	3768	3772	3773	rBV4	3421	2288	0.01%	0.005%
30	14.042	3870	3883	3892	rBV2	8306	12256	0.03%	0.029%

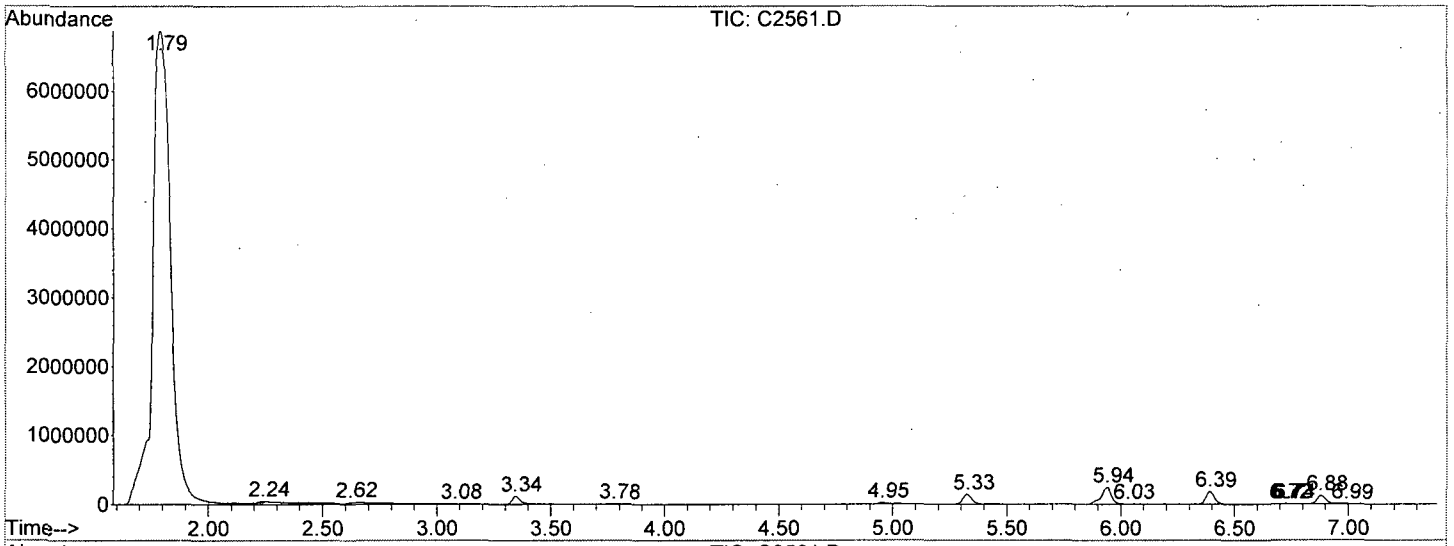
Sum of corrected areas: 42799164

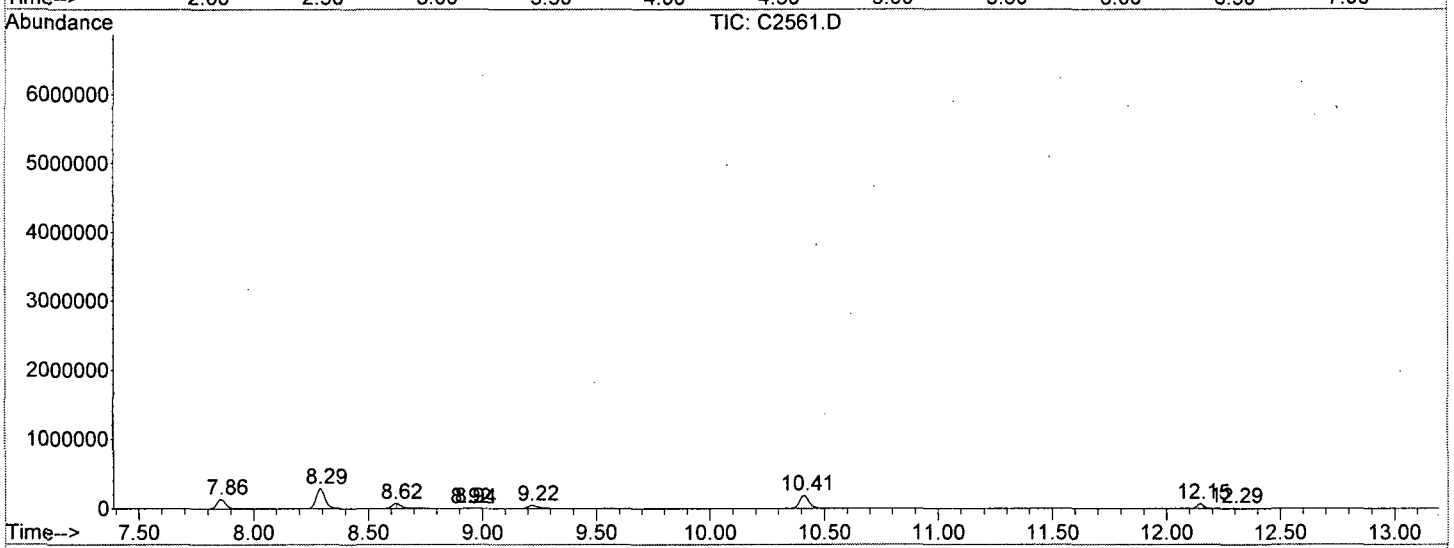
000000126

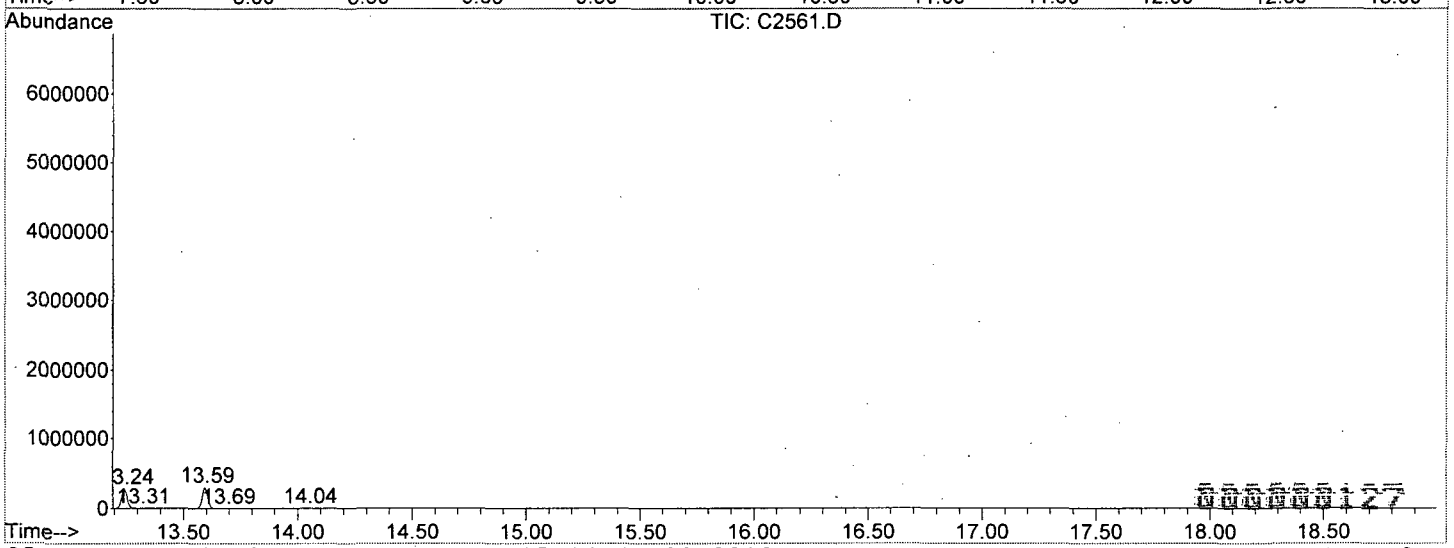
LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2561.D
Acq On : 12 Mar 2010 13:36
Sample : 0011765-01
Misc : F3FZ0 25ML
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2561.D
Acq On : 12 Mar 2010 13:36
Sample : 0011765-01
Misc : F3FZ0 25ML
MS Integration Params: Lscint.p

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00

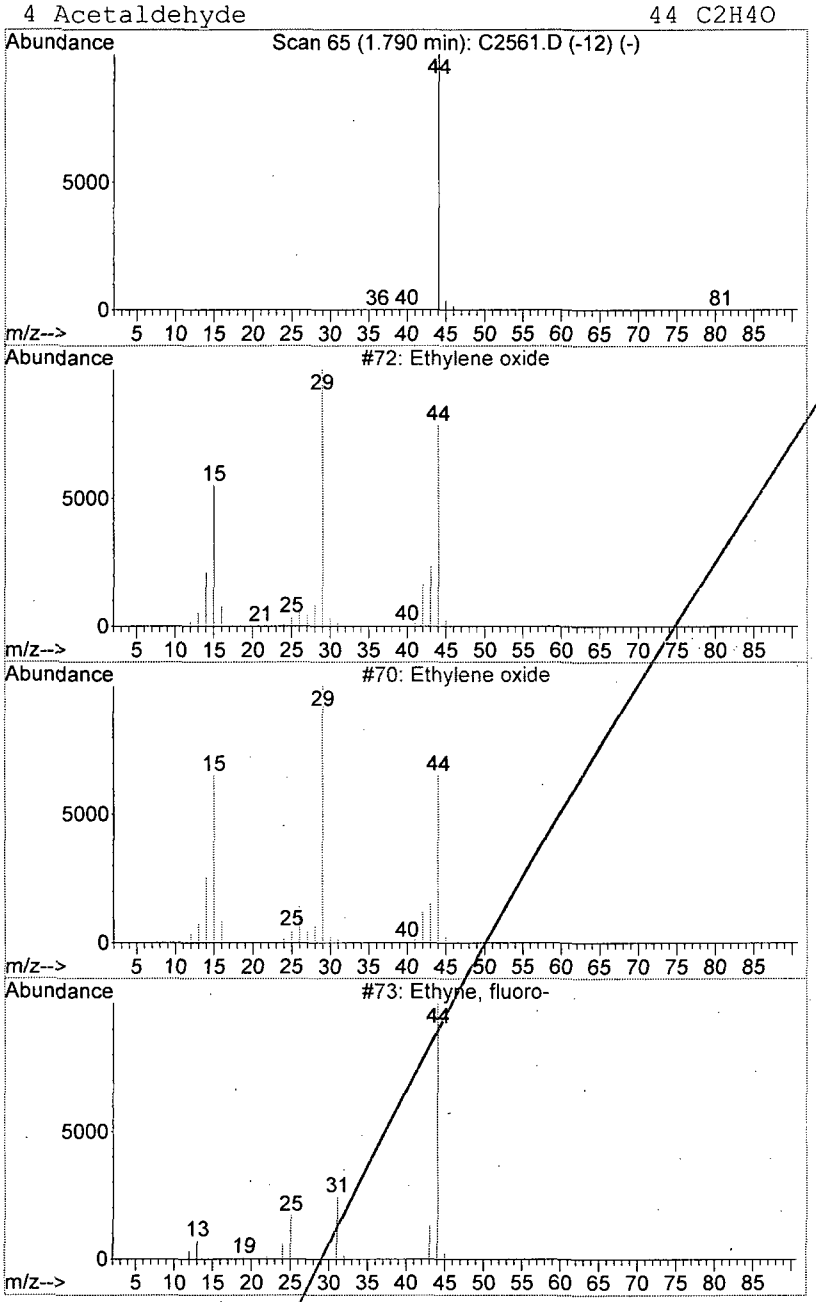
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

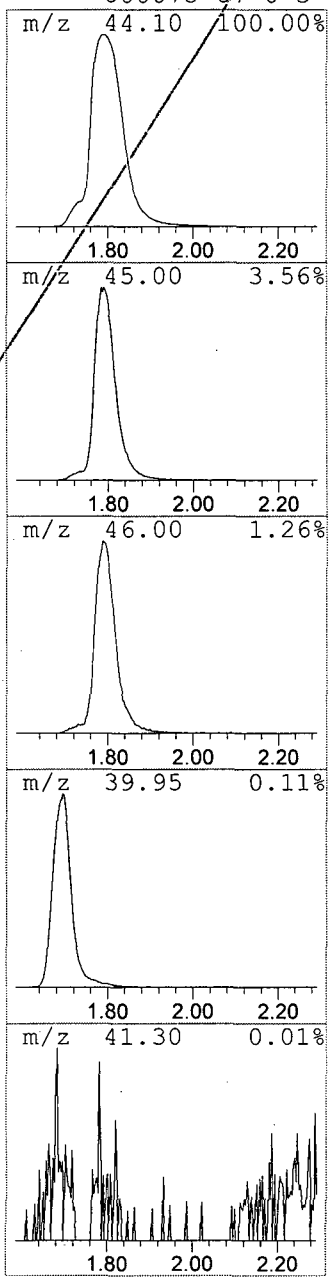
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.79	409.26 ug/L	37404900	1,4-Difluorobenzene	6.39

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	4
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





000000128

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2561.D Vial: 3
Acq On : 12 Mar 2010 13:36 Operator: SP
Sample : 0011765-01 Inst : C-5973
Misc : F3FZ0 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

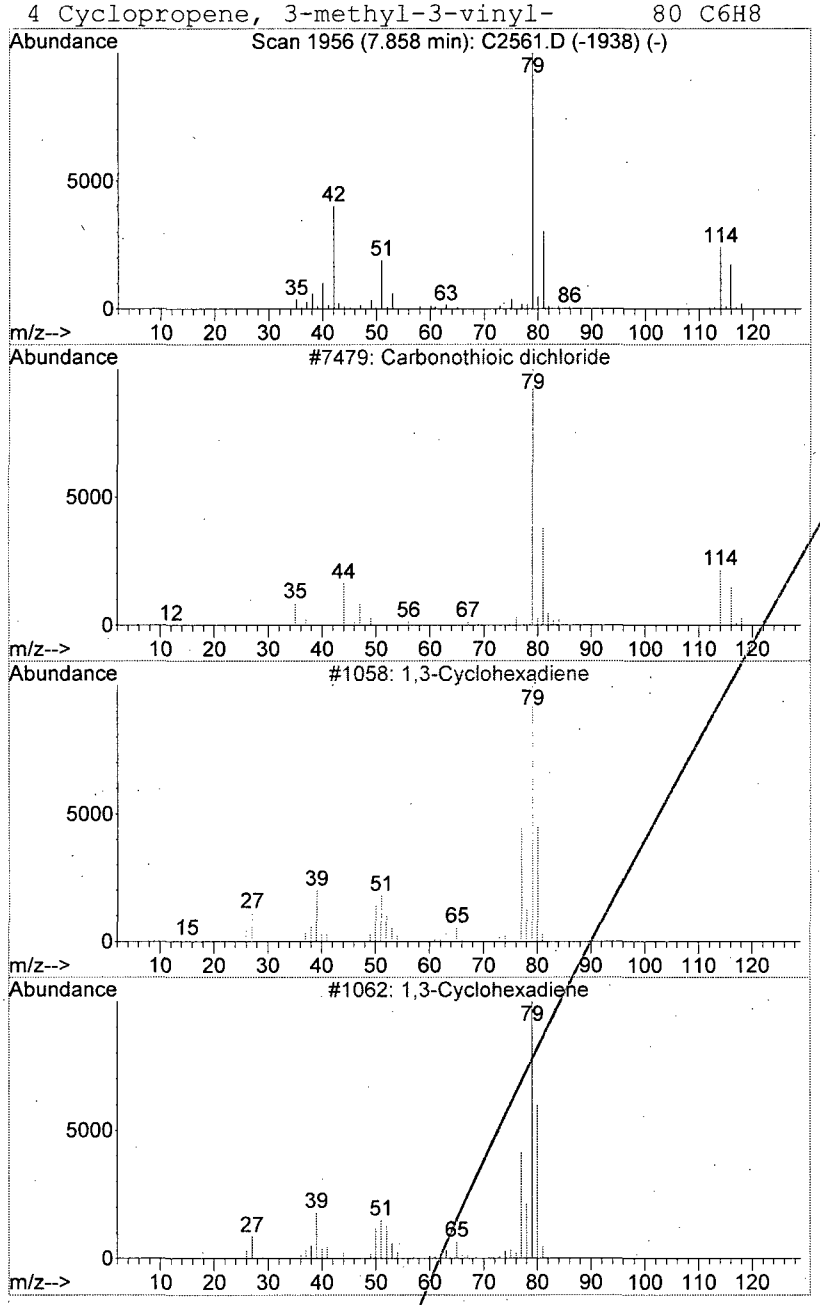
****

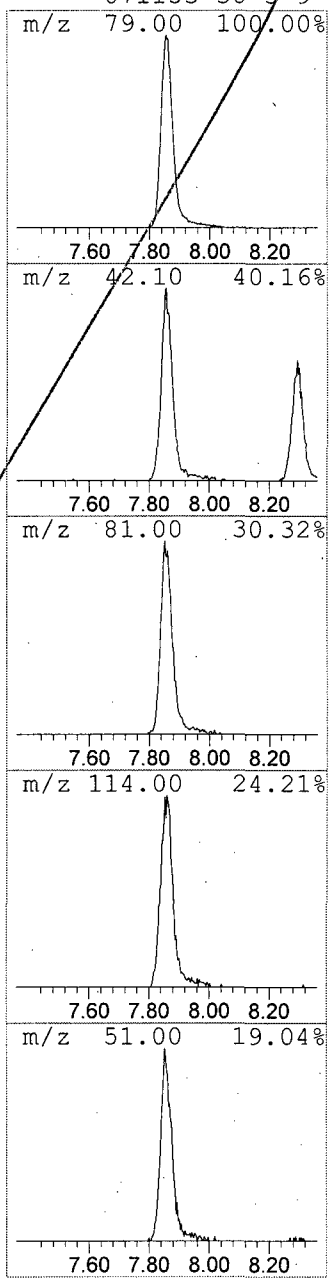
Peak Number 2 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.97 ug/L	363120	1,4-Difluorobenzene	6.39

One detect

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	38
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
4	Cyclopropene, 3-methyl-3-vinyl-	80	C6H8	071153-30-5	9





0000000123

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 13:36
Data File: C:\MSDCHEM\1\DATA\C2561.D
Name: 0011765-01
Misc: F3FZ0 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylene oxide	1.79	409.3	ug/L	37404900	1	6.39	456977	5.0
Carbonothioic dic...	7.86	4.0	ug/L	363120	1	6.39	456977	5.0

000000130

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

EPA SAMPLE NO.
F3FZ1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2562.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.
F3FZ1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2562.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FZ1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2562.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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					
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23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

0000000133

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2562.D
Acq On : 12 Mar 2010 14:02
Sample : 0011765-02
Misc : F3FZ1 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 14:45:41 2010

Vial: 4
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	204962	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	174564	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	87076	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.22	65	134650	5.7291 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 114.58%		
7) Chloroethane-d5	2.62	69	106704	5.3917 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 107.83%		
10) 1,1-Dichloroethene-d2	3.33	63	120989	4.4044 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 88.09%		
20) 2-Butanone-d5	4.94	46	34922	31.7566 ug/L	-0.01
Spiked Amount 50.0000	Range 49 - 155		Recovery = 63.51%		
24) Chloroform-d	5.32	84	118408	4.7919 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 95.84%		
26) 1,2-Dichloroethane-d4	5.89	65	46961	3.8472 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 76.94%#		
32) Benzene-d6	5.93	84	299683	5.6700 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 113.40%		
35) 1,2-Dichloropropane-d6	6.88	67	73568	4.7498 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 95.00%		
41) Toluene-d8	8.29	98	284935	5.5973 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 111.95%		
43) trans-1,3-Dichloropropene-	8.62	79	58285	4.1248 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 82.50%		
47) 2-Hexanone-d5	9.22	63	27453	32.4896 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 64.98%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	37147	3.3072 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 66.14%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	90197	4.9327 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 98.65%		

Target Compounds Qvalue

000000134

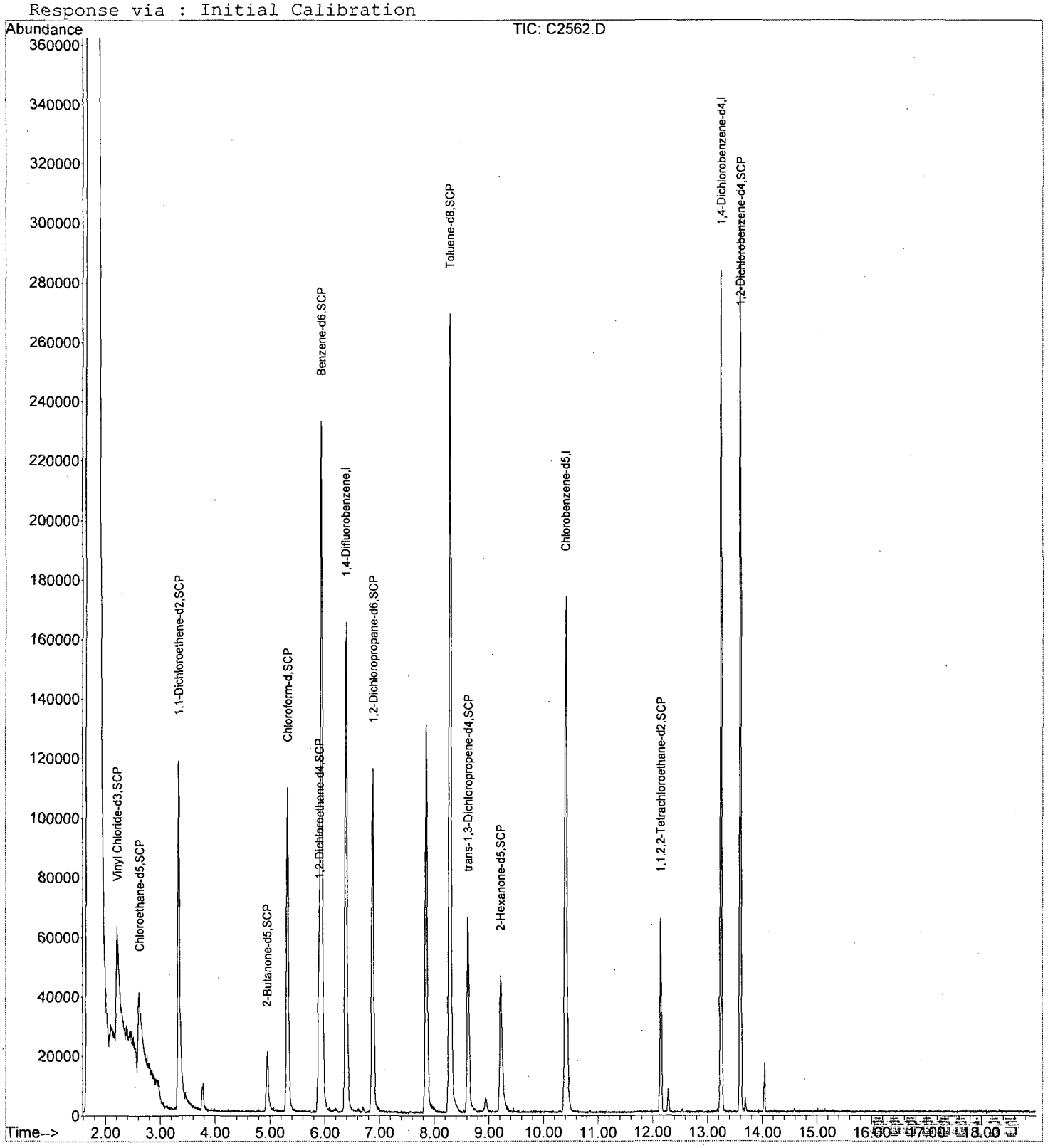
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2562.D
Acq On : 12 Mar 2010 14:02
Sample : 0011765-02
Misc : F3FZ1 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:12 2010

Vial: 4
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2562.D
Acq On : 12 Mar 2010 14:02
Sample : 0011765-02
Misc : F3FZ1 25ML
MS Integration Params: Lscint.p

Vial: 4
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1000 Area counts
Max Peaks: 40
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

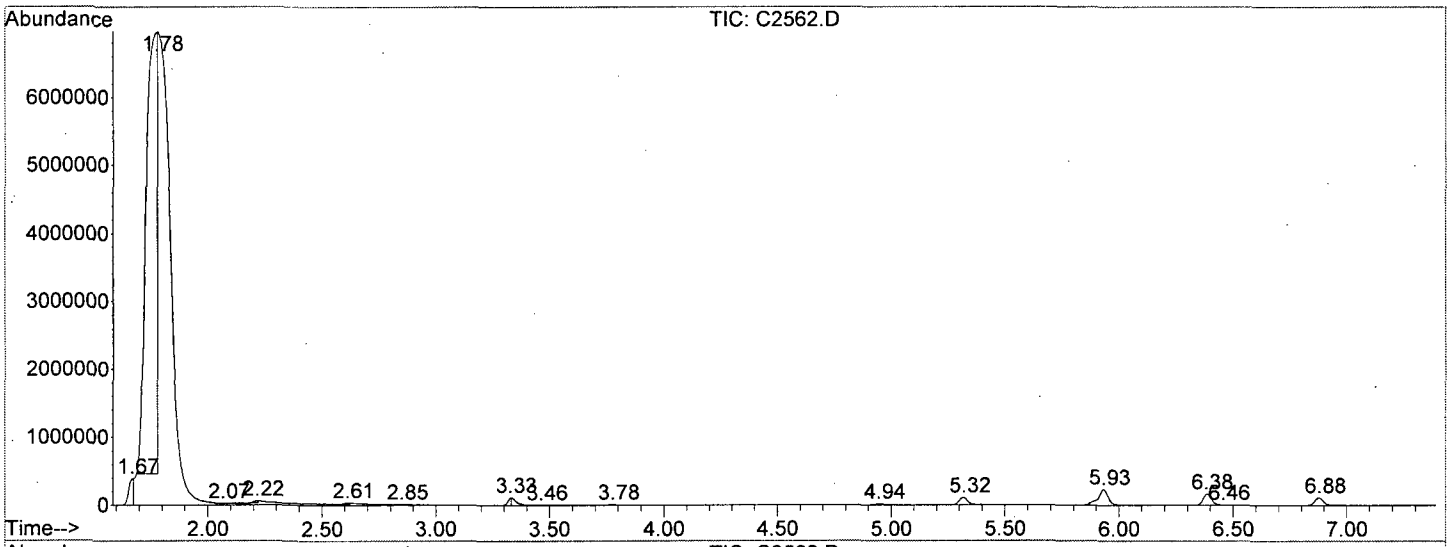
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.669	12	27	29	rBV	394982	581629	2.59%	2.086%
2	1.778	33	61	62	rBV	6490480	22429015	100.00%	80.446%
3	2.067	149	151	152	rBV	4173	1604	0.01%	0.006%
4	2.217	189	198	199	rBV2	31780	36884	0.16%	0.132%
5	2.612	311	321	324	rBV4	22319	35545	0.16%	0.127%
6	2.850	394	395	400	rVB4	2574	1376	0.01%	0.005%
7	3.328	532	544	545	rBV	116222	115882	0.52%	0.416%
8	3.462	585	586	590	rVB3	2210	1050	0.00%	0.004%
9	3.777	671	684	695	rBV4	9033	19651	0.09%	0.070%
10	4.945	1036	1048	1049	rBV	18454	21027	0.09%	0.075%
11	5.320	1148	1165	1188	rBV2	108651	274738	1.22%	0.985%
12	5.933	1325	1356	1381	rBV5	232396	725876	3.24%	2.604%
13	6.383	1479	1496	1518	rBV3	164713	417505	1.86%	1.497%
14	6.456	1518	1519	1522	rVB2	3012	1098	0.00%	0.004%
15	6.880	1632	1651	1673	rBV2	115710	298315	1.33%	1.070%
16	7.852	1936	1954	1973	rBV3	130453	341685	1.52%	1.226%
17	8.285	2070	2089	2115	rBV	268514	713751	3.18%	2.560%
18	8.616	2175	2192	2209	rBV4	65932	173879	0.78%	0.624%
19	8.940	2284	2293	2296	rBV3	4574	6148	0.03%	0.022%
20	9.213	2363	2378	2379	rBV2	45621	64995	0.29%	0.233%
21	9.287	2400	2401	2406	rVB3	3196	1483	0.01%	0.005%
22	10.406	2730	2750	2769	rBV2	173217	473260	2.11%	1.697%
23	12.146	3278	3292	3308	rBV3	65323	125396	0.56%	0.450%
24	12.284	3327	3335	3337	rBV4	7731	7785	0.03%	0.028%
25	13.243	3621	3634	3647	rBV	282745	474787	2.12%	1.703%
26	13.593	3729	3743	3757	rBV2	300882	506325	2.26%	1.816%
27	13.689	3765	3773	3778	rBV3	4834	5660	0.03%	0.020%
28	14.036	3872	3881	3891	rVB	16935	23323	0.10%	0.084%
29	14.155	3911	3918	3919	rBV2	1008	1079	0.00%	0.004%

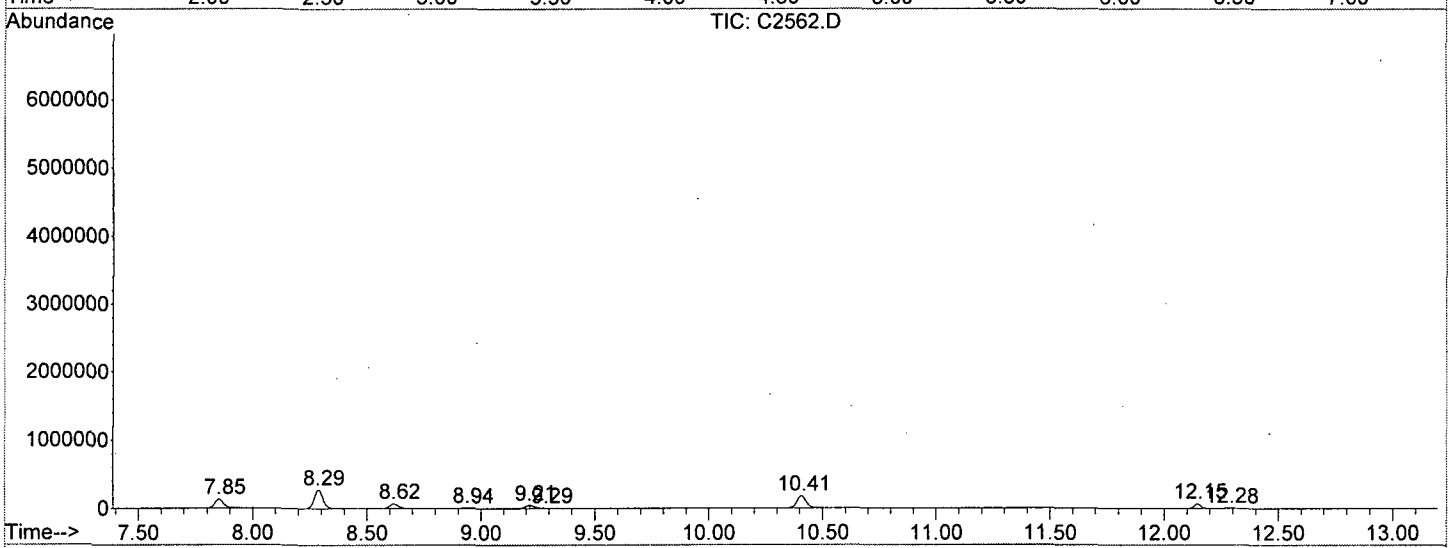
Sum of corrected areas: 27880751

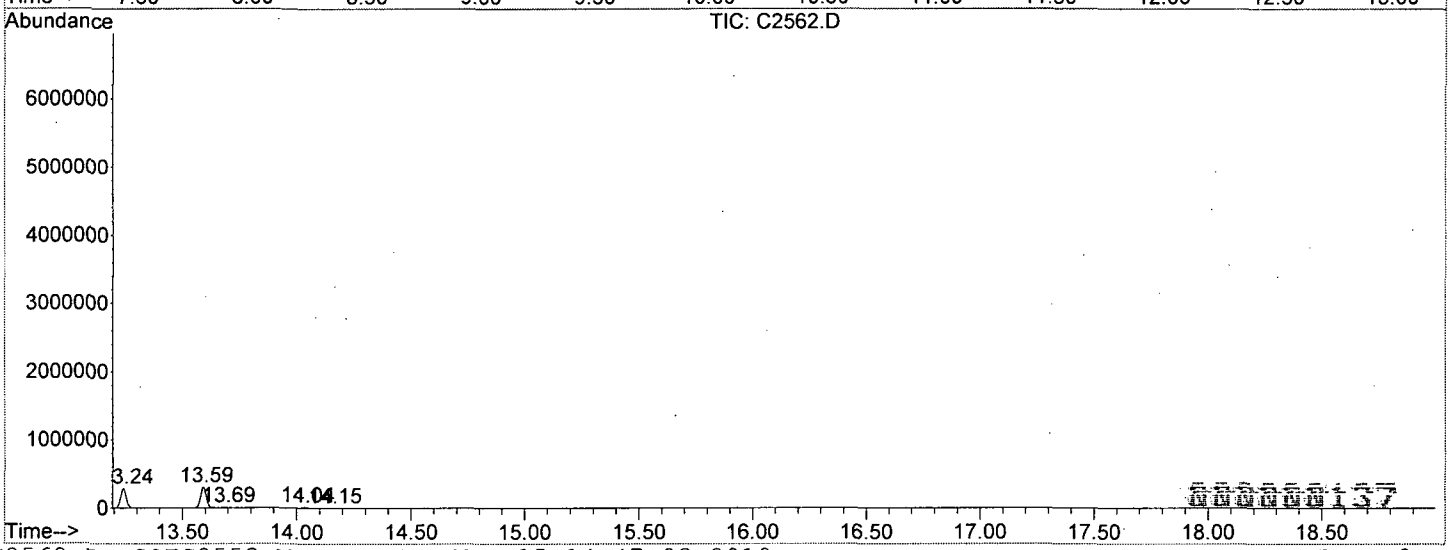
000000136

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2562.D Vial: 4
Acq On : 12 Mar 2010 14:02 Operator: SP
Sample : 0011765-02 Inst : C-5973
Misc : F3FZ1 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2562.D Vial: 4
Acq On : 12 Mar 2010 14:02 Operator: SP
Sample : 0011765-02 Inst : C-5973
Misc : F3FZ1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

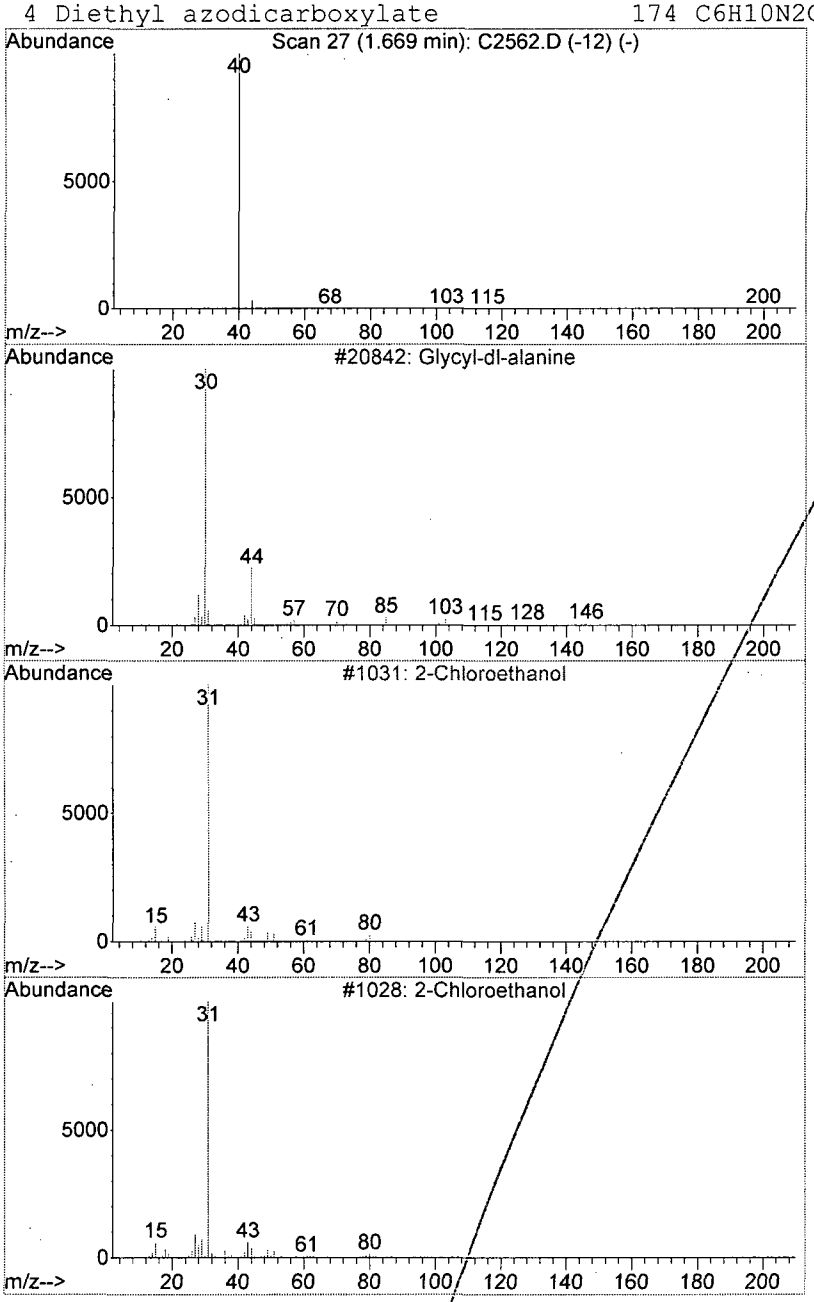
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

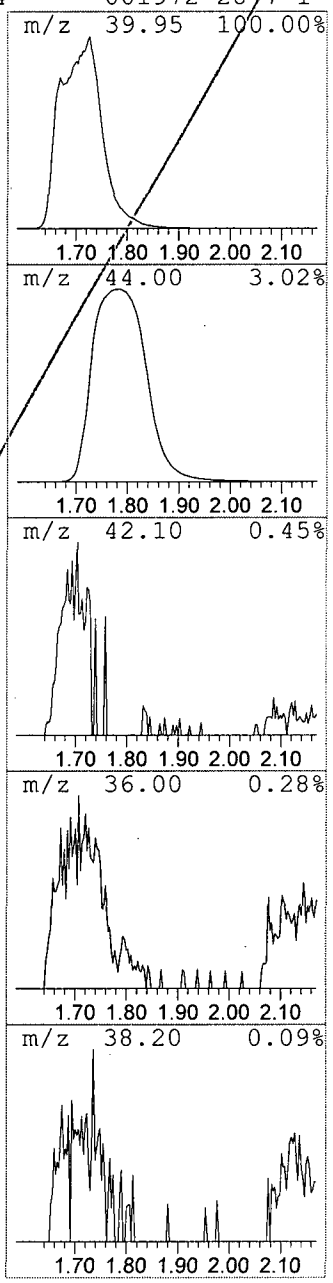
****

Peak Number 1 Glycyl-dl-alanine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	6.97 ug/L	581629	1,4-Difluorobenzene	6.39

Hit# of 4	Tentative ID	MW	MolForm	CAS#	Qual
1	Glycyl-dl-alanine	146	C5H10N2O3	000926-77-2	1
2	2-Chloroethanol	80	C2H5ClO	000107-07-3	1
3	2-Chloroethanol	80	C2H5ClO	000107-07-3	1
4	Diethyl azodicarboxylate	174	C6H10N2O4	001972-28-7	1





000000138

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2562.D Vial: 4
Acq On : 12 Mar 2010 14:02 Operator: SP
Sample : 0011765-02 Inst : C-5973
Misc : F3FZ1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

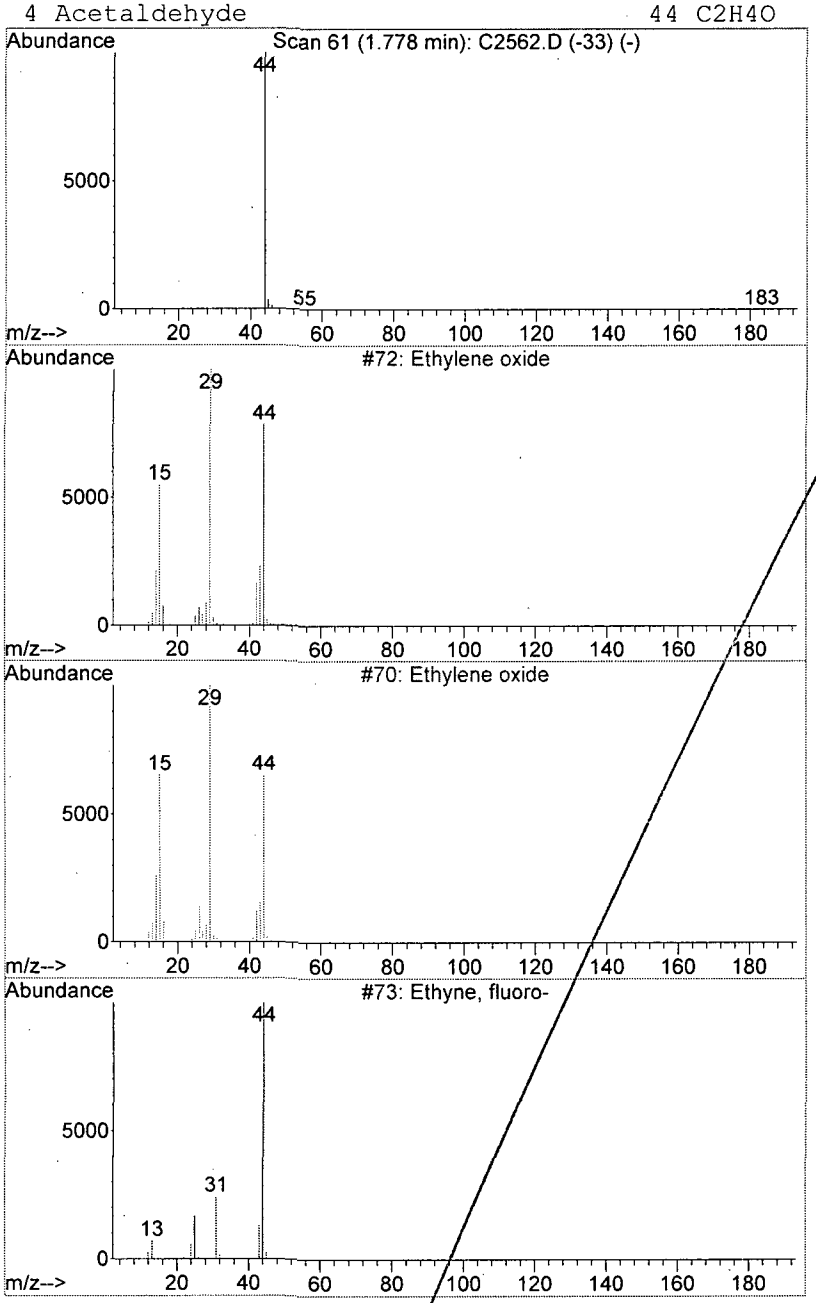
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

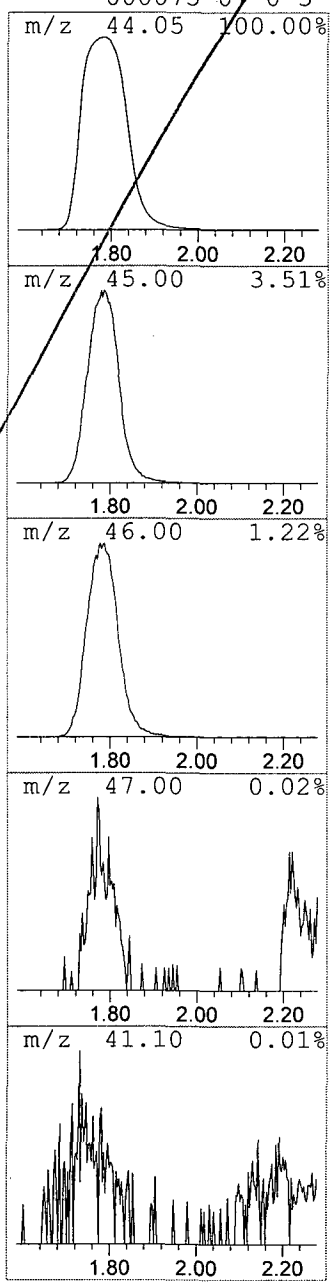
****

Peak Number 2 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	268.61 ug/L	22429000	1,4-Difluorobenzene	6.39

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	4
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





000000139

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2562.D Vial: 4
Acq On : 12 Mar 2010 14:02 Operator: SP
Sample : 0011765-02 Inst : C-5973
Misc : F3FZ1 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	4.09 ug/L	341685	1,4-Difluorobenzene	6.39

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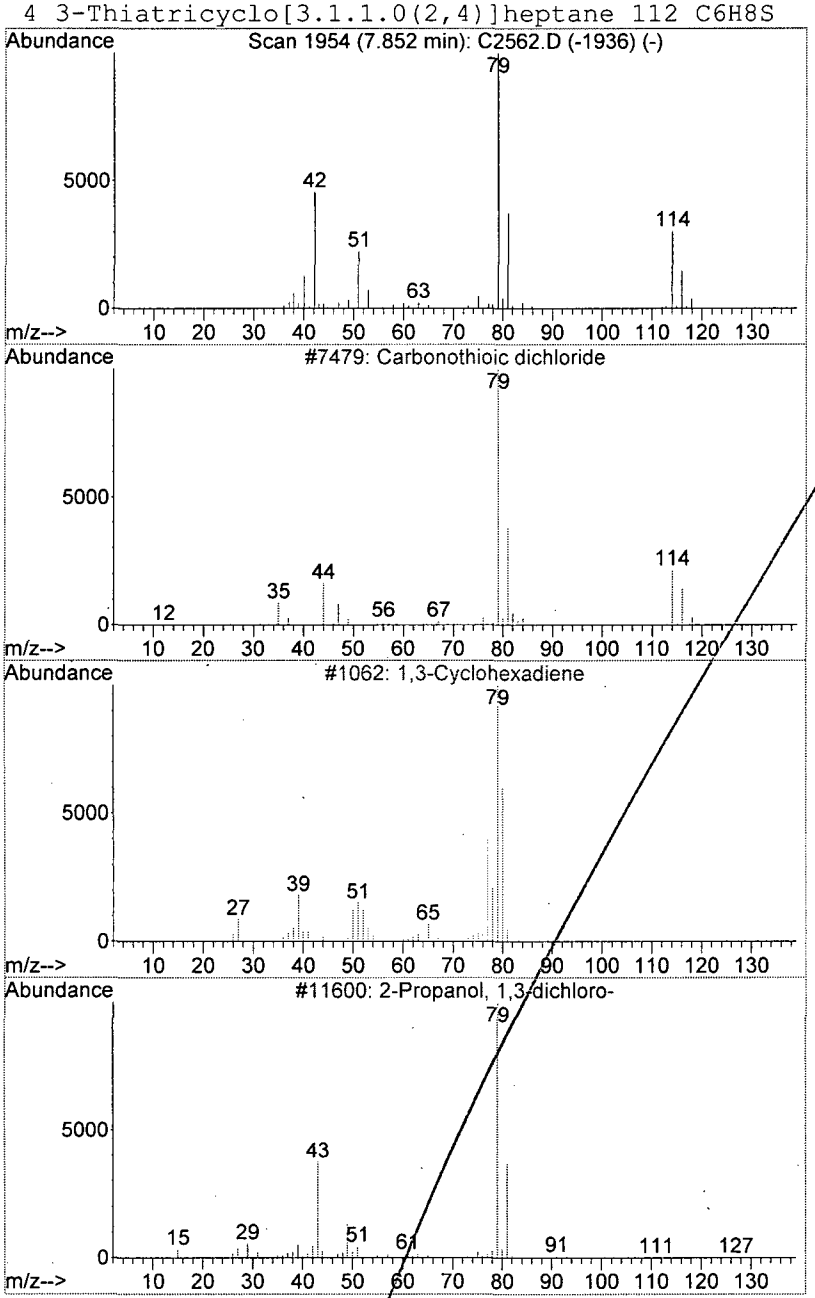
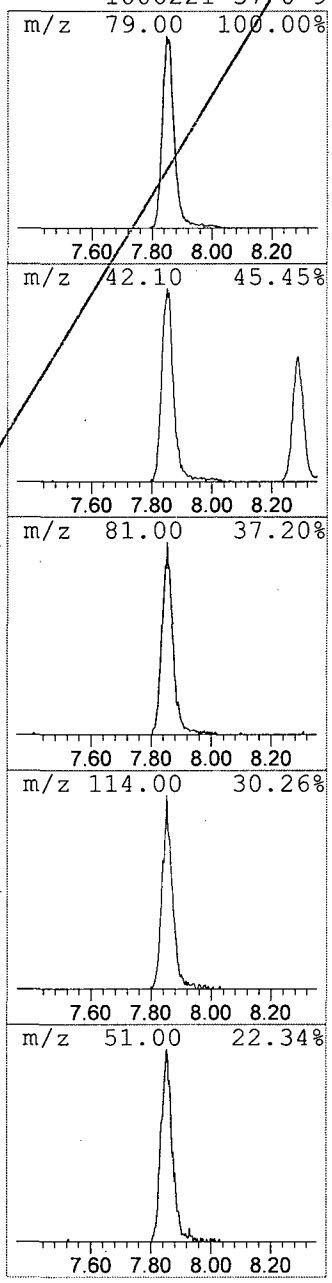
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	50
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9





000000140

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 14:02
Data File: C:\MSDCHEM\1\DATA\C2562.D
Name: 0011765-02
Misc: F3FZ1 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Glycyl-dl-alanine	1.67	7.0	ug/L	581629	1	6.39	417505	5.0
Ethylene oxide	1.78	268.6	ug/L	22429000	1	6.39	417505	5.0
Carbonothioic dic...	7.85	4.1	ug/L	341685	1	6.39	417505	5.0

000000141

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

EPA SAMPLE NO.
F3FZ2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2581.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.
F3FZ2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2581.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FZ2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-02

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2581.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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					
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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\C2581.D
Acq On : 12 Mar 2010 23:03
Sample : 0011759-02
Misc : F3FZ2 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:46:12 2010

Vial: 23
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	163459	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	135169	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	63166	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.21	65	107506	5.7356 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 114.71%		
7) Chloroethane-d5	2.62	69	89426	5.6660 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 113.32%		
10) 1,1-Dichloroethene-d2	3.33	63	97893	4.4684 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 89.37%		
20) 2-Butanone-d5	4.94	46	28293	32.2611 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 64.52%		
24) Chloroform-d	5.31	84	97307	4.9379 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 98.76%		
26) 1,2-Dichloroethane-d4	5.89	65	39795	4.0879 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 81.76%		
32) Benzene-d6	5.93	84	241955	5.9120 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 118.24%		
35) 1,2-Dichloropropane-d6	6.88	67	61227	5.1051 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 102.10%		
41) Toluene-d8	8.29	98	232085	5.8879 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 117.76%		
43) trans-1,3-Dichloropropene-	8.61	79	38159	3.4876 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 69.75%#		
47) 2-Hexanone-d5	9.21	63	21052	32.1755 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 64.35%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	28942	3.3277 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 66.55%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	71336	5.3780 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 107.56%		

Target Compounds Qvalue

00000145

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

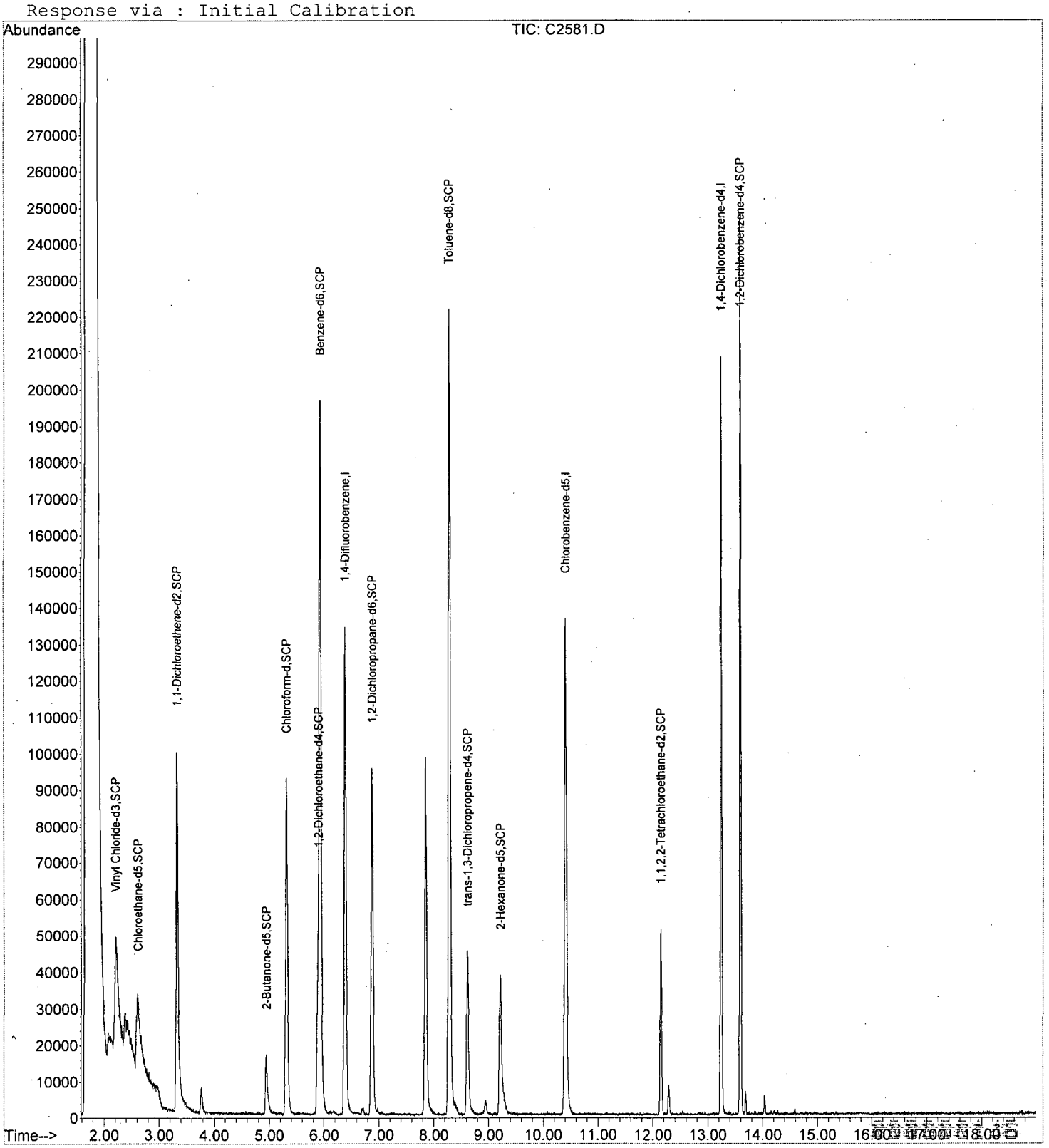
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2581.D
Acq On : 12 Mar 2010 23:03
Sample : 0011759-02
Misc : F3FZ2 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:57 2010

Vial: 23
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2581.D Vial: 23
Acq On : 12 Mar 2010 23:03 Operator: SP
Sample : 0011759-02 Inst : C-5973
Misc : F3FZ2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.665	11	26	28	rBV	388427	511906	1.19%	1.071%
2	1.774	33	60	132	rVB	6467591	43182844	100.00%	90.367%
3	2.063	149	150	152	rBV	2811	1017	0.00%	0.002%
4	2.079	152	155	158	rVV	5097	3855	0.01%	0.008%
5	2.214	188	197	198	rBV	24562	32199	0.07%	0.067%
6	2.371	244	246	247	rBV2	4942	2317	0.01%	0.005%
7	2.609	309	320	323	rBV3	20506	37439	0.09%	0.078%
8	2.901	408	411	413	rBV4	2021	1368	0.00%	0.003%
9	2.942	423	424	427	rBV3	1892	1209	0.00%	0.003%
10	2.975	431	434	435	rBV2	1781	1090	0.00%	0.002%
11	3.331	531	545	560	rBV4	98813	233065	0.54%	0.488%
12	3.494	594	596	601	rVB3	1813	1111	0.00%	0.002%
13	3.575	620	621	627	rVB4	1273	1065	0.00%	0.002%
14	3.770	672	682	685	rBV5	7215	10256	0.02%	0.021%
15	4.945	1038	1048	1060	rBV	16332	37065	0.09%	0.078%
16	4.990	1060	1062	1068	rVB4	2735	1880	0.00%	0.004%
17	5.314	1147	1163	1183	rBV2	92335	231163	0.54%	0.484%
18	5.933	1326	1356	1379	rBV2	195938	601554	1.39%	1.259%
19	6.386	1482	1497	1519	rBV2	133413	330311	0.76%	0.691%
20	6.880	1634	1651	1670	rBV3	95227	250035	0.58%	0.523%
21	7.852	1937	1954	1976	rBV2	98357	244745	0.57%	0.512%
22	8.285	2069	2089	2115	rBV	221486	580691	1.34%	1.215%
23	8.616	2175	2192	2214	rBV3	44881	118486	0.27%	0.248%
24	8.946	2285	2295	2298	rBV4	3682	5661	0.01%	0.012%
25	9.216	2363	2379	2392	rBV5	38411	105811	0.25%	0.221%
26	9.264	2392	2394	2396	rVB2	3260	1612	0.00%	0.003%
27	9.322	2410	2412	2422	rVB4	2285	2475	0.01%	0.005%
28	10.410	2732	2751	2775	rBV5	136061	372854	0.86%	0.780%
29	12.146	3280	3292	3308	rVB4	51048	99231	0.23%	0.208%
30	12.290	3327	3337	3344	rBV4	8194	13473	0.03%	0.028%
31	12.547	3409	3417	3422	rBV3	1520	1822	0.00%	0.004%
32	13.243	3621	3634	3648	rBV2	208124	353868	0.82%	0.741%
33	13.593	3730	3743	3760	rBV	246353	399090	0.92%	0.835%
34	13.686	3765	3772	3774	rBV4	6194	5346	0.01%	0.011%
35	14.036	3874	3881	3888	rBV3	5233	7007	0.02%	0.015%
36	14.154	3913	3918	3923	rBV2	1240	1090	0.00%	0.002%

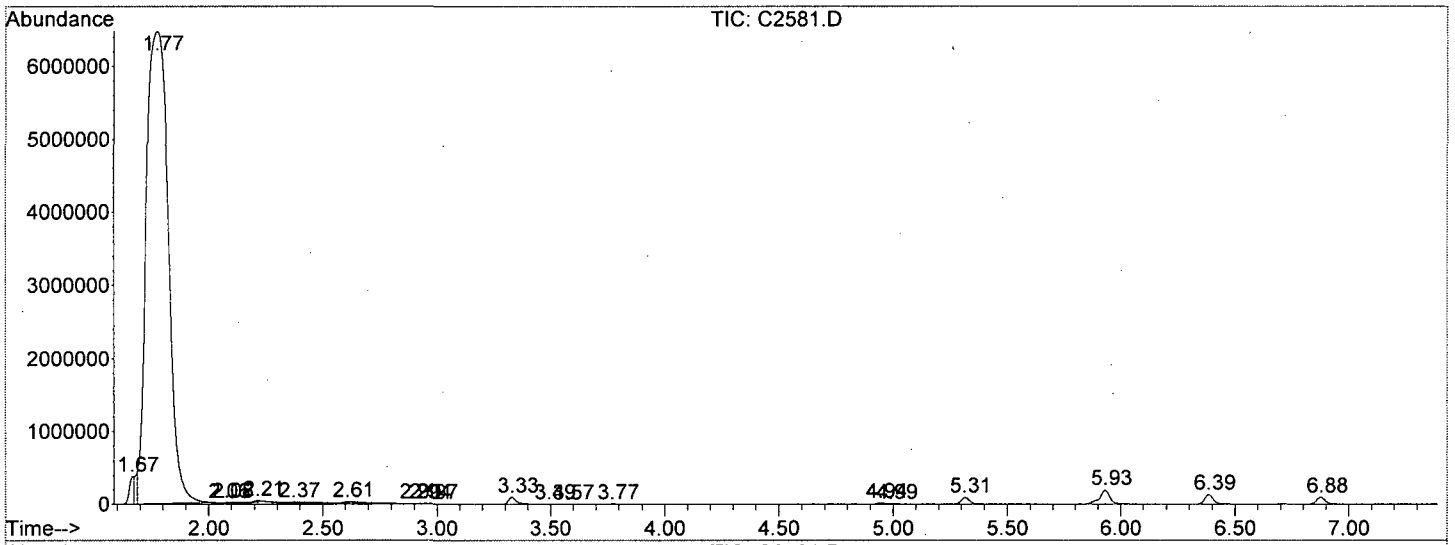
Sum of corrected areas: 47786011

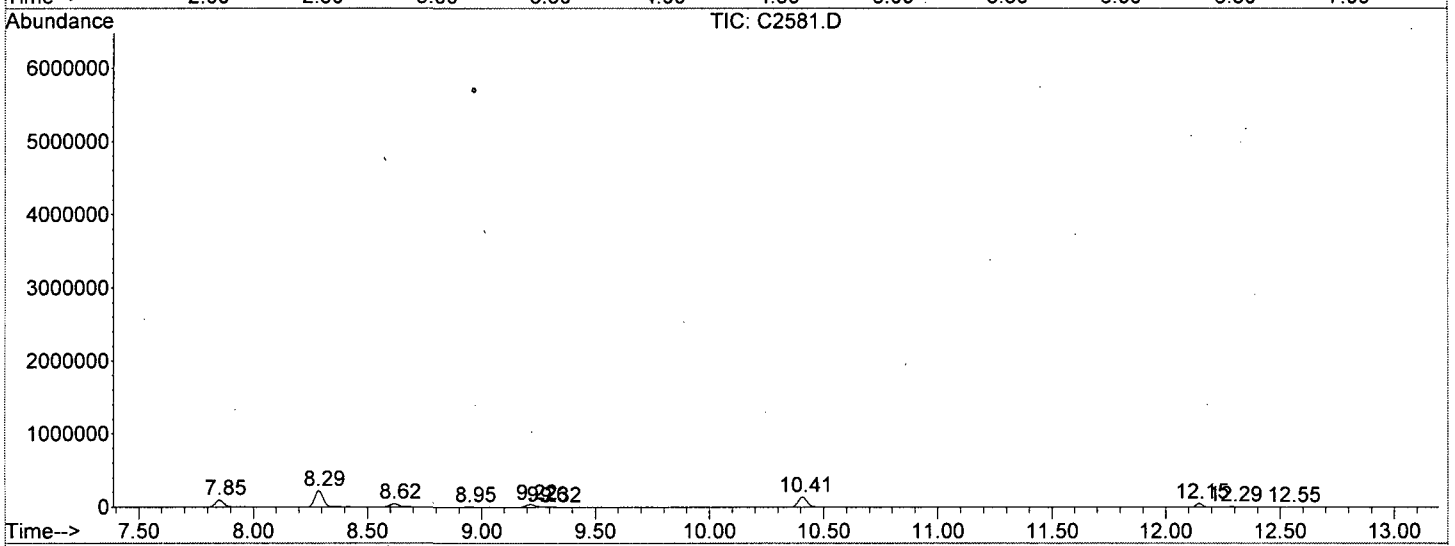
00000147

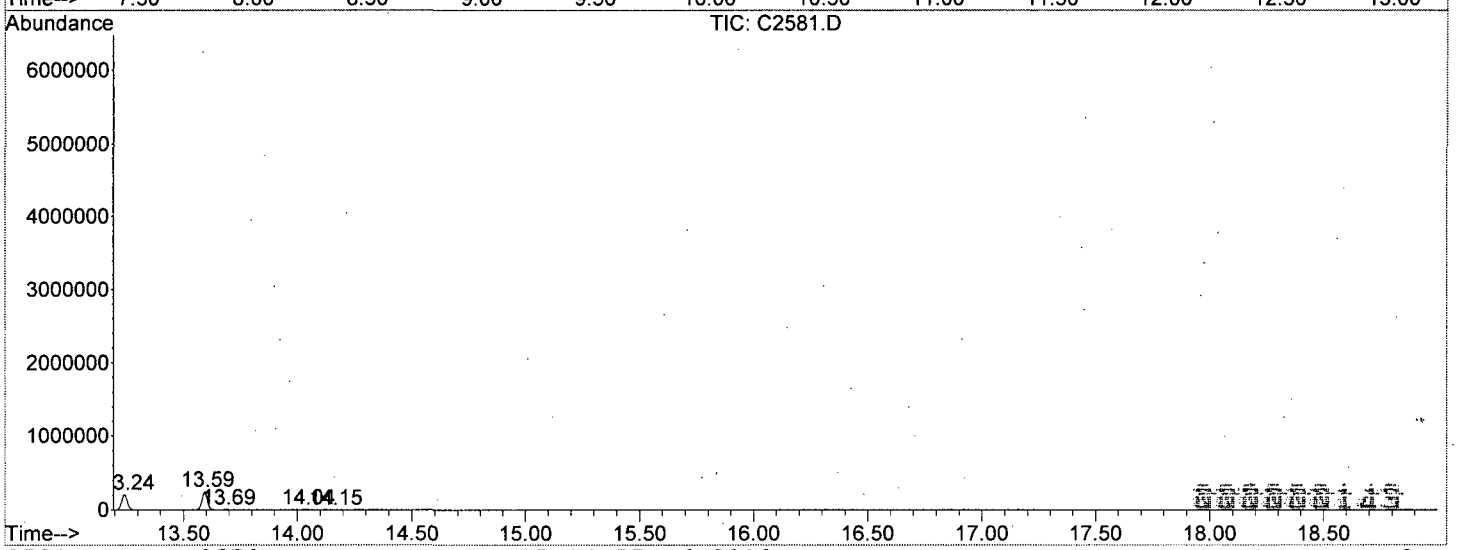
000000148

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2581.D Vial: 23
Acq On : 12 Mar 2010 23:03 Operator: SP
Sample : 0011759-02 Inst : C-5973
Misc : F3FZ2 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2581.D Vial: 23
Acq On : 12 Mar 2010 23:03 Operator: SP
Sample : 0011759-02 Inst : C-5973
Misc : F3FZ2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

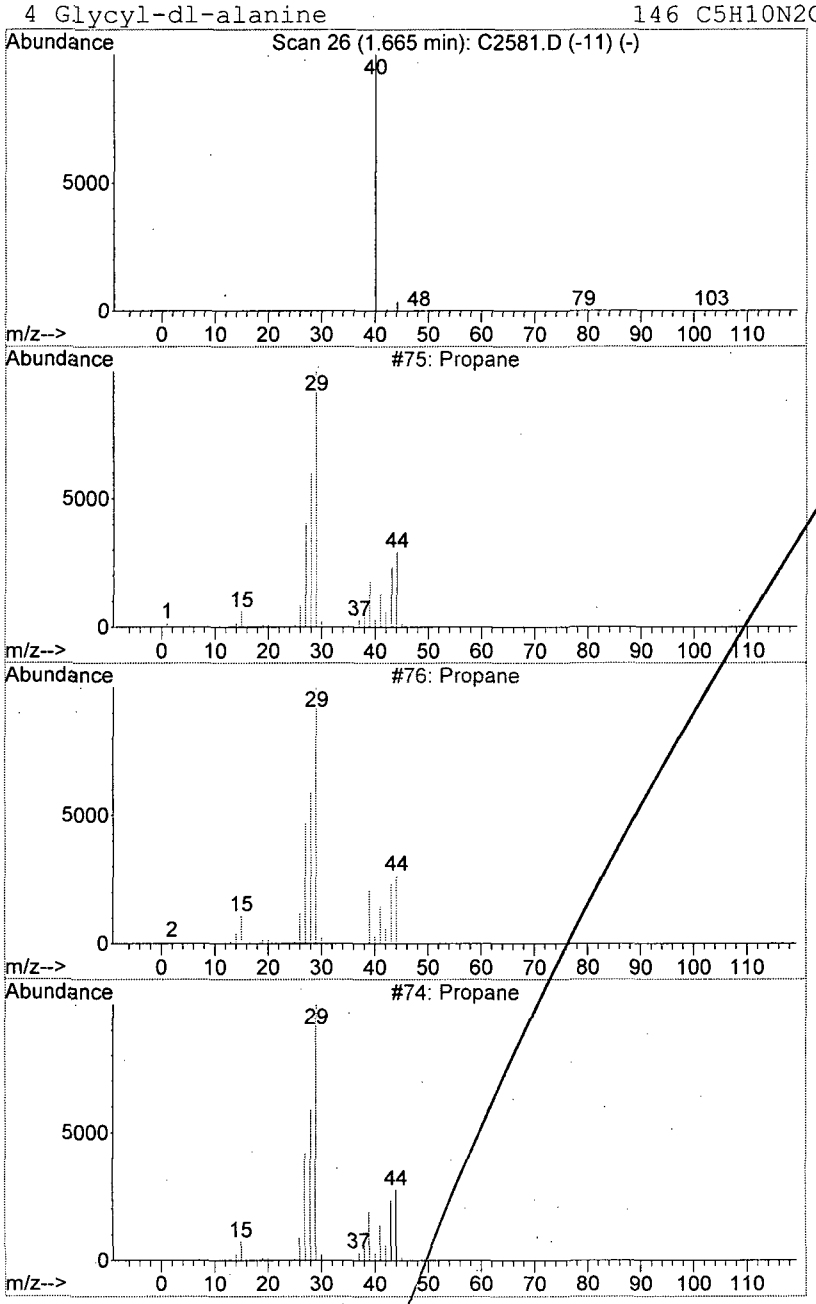
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

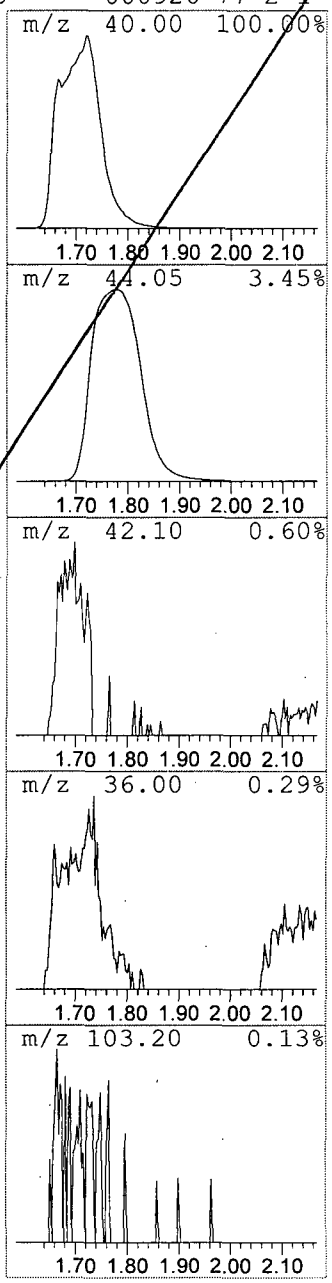
****

Peak Number 1 Propane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	7.75 ug/L	511906	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	1
2	Propane	44	C3H8	000074-98-6	1
3	Propane	44	C3H8	000074-98-6	1
4	Glycyl-dl-alanine	146	C5H10N2O3	000926-77-2	1





000000158

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2581.D Vial: 23
Acq On : 12 Mar 2010 23:03 Operator: SP
Sample : 0011759-02 Inst : C-5973
Misc : F3FZ2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

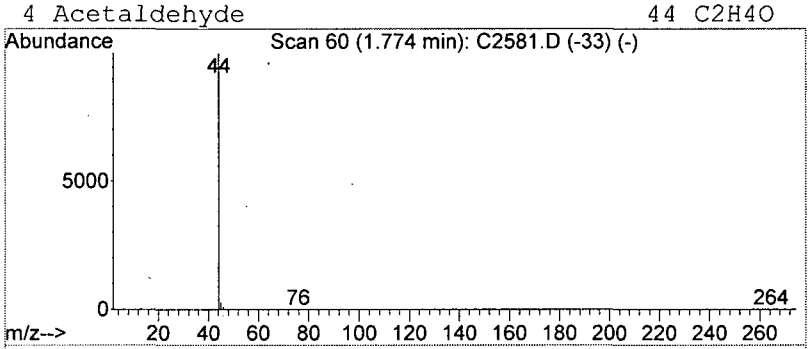
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

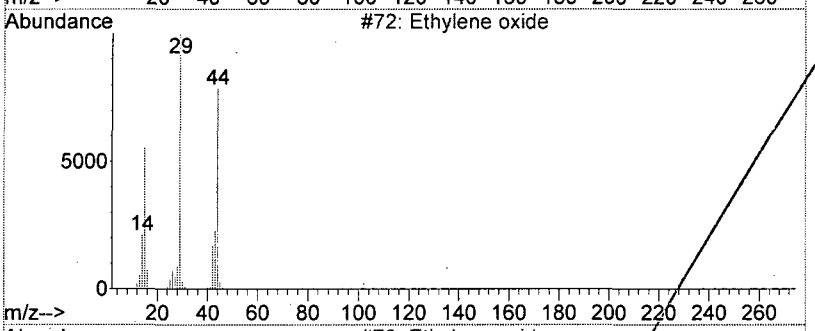
****

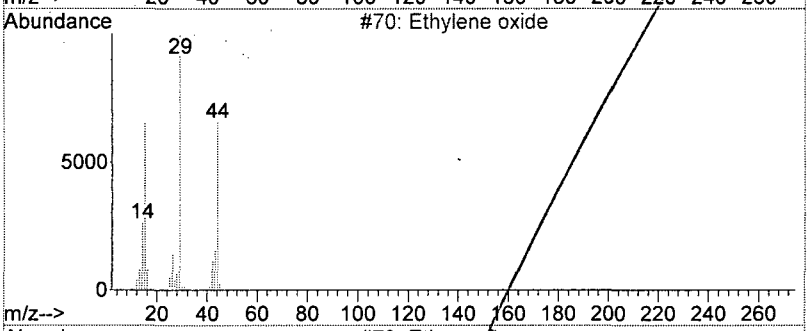
Peak Number 2 Ethylene oxide Concentration Rank 1

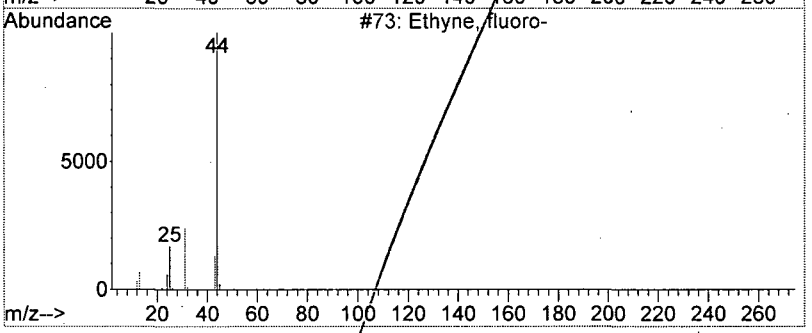
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.77	653.67 ug/L	43182800	1,4-Difluorobenzene	6.39

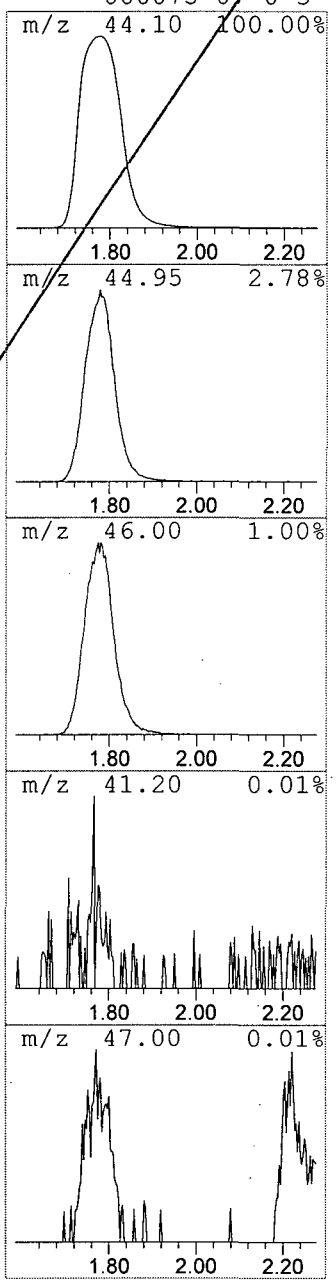
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	4
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3











000000151

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2581.D Vial: 23
Acq On : 12 Mar 2010 23:03 Operator: SP
Sample : 0011759-02 Inst : C-5973
Misc : F3FZ2 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

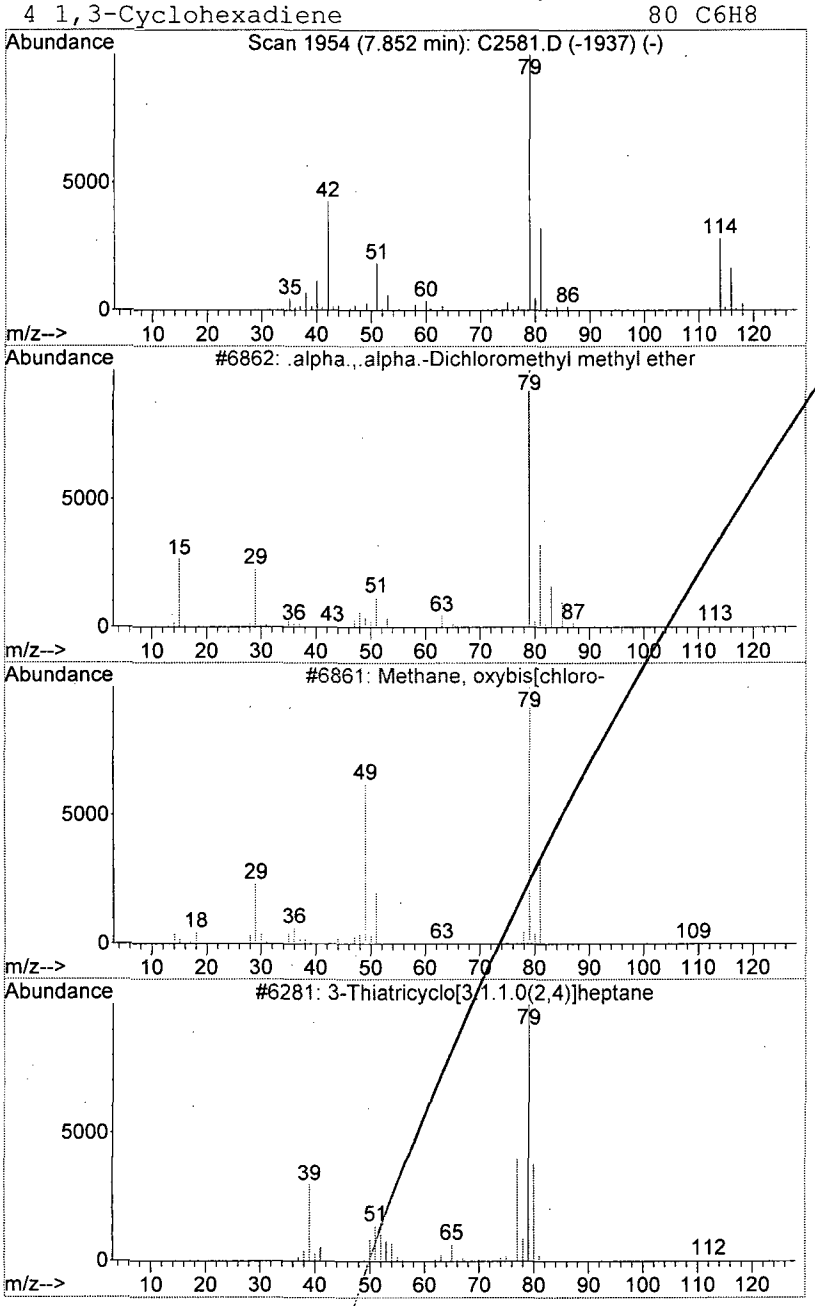
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

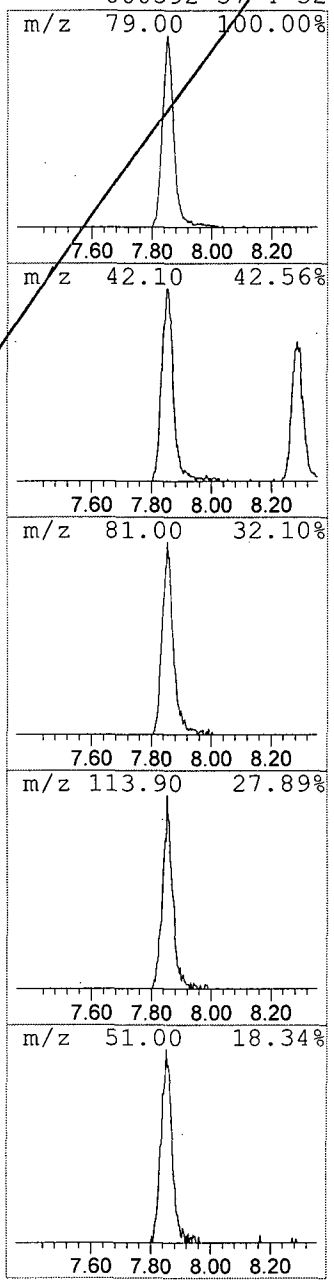
****

Peak Number 3 .alpha.,.alpha.-Dichloromet... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.70 ug/L	244745	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	37
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
3	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	32
4	1,3-Cyclohexadiene	80	C6H8	000592-57-4	32





0000000152

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 23:03
Data File: C:\MSDCHEM\1\DATA\C2581.D
Name: 0011759-02
Misc: F3FZ2 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Propane	1.67	7.7	ug/L	511906	1	6.39	330311	5.0
Ethylene oxide	1.77	653.7	ug/L	43182800	1	6.39	330311	5.0
.alpha.,.alpha.-D...	7.85	3.7	ug/L	244745	1	6.39	330311	5.0

000000153

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

EPA SAMPLE NO.
F3FZ3

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-07

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2586.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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	0.42	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	0.50	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
79-01-6	Trichloroethene	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.

F3FZ3

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-07

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2586.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FZ3

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-07

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2586.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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.

000000156

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:47:33 2010 Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	158139	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	130916	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	60198	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.22	65	106390	5.8670 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 117.34%		
7) Chloroethane-d5	2.61	69	88163	5.7739 ug/L	-0.02
Spiked Amount 5.0000	Range 71 - 131		Recovery = 115.48%		
10) 1,1-Dichloroethene-d2	3.33	63	94897	4.4774 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 89.55%		
20) 2-Butanone-d5	4.94	46	25301	29.8200 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 59.64%		
24) Chloroform-d	5.31	84	96991	5.0874 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 101.75%		
26) 1,2-Dichloroethane-d4	5.89	65	39896	4.2362 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 84.72%		
32) Benzene-d6	5.93	84	239784	6.0493 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 120.99%		
35) 1,2-Dichloropropane-d6	6.88	67	60514	5.2095 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 104.19%		
41) Toluene-d8	8.29	98	226728	5.9388 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 118.78%		
43) trans-1,3-Dichloropropene-	8.62	79	33184	3.1314 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 62.63%#		
47) 2-Hexanone-d5	9.21	63	17529	27.6614 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 55.32%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	26563	3.1534 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 63.07%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	67864	5.3685 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 107.37%		

Target Compounds					Qvalue
16) Methylene Chloride	3.78	84	5754	0.4249 ug/L	96

000000157

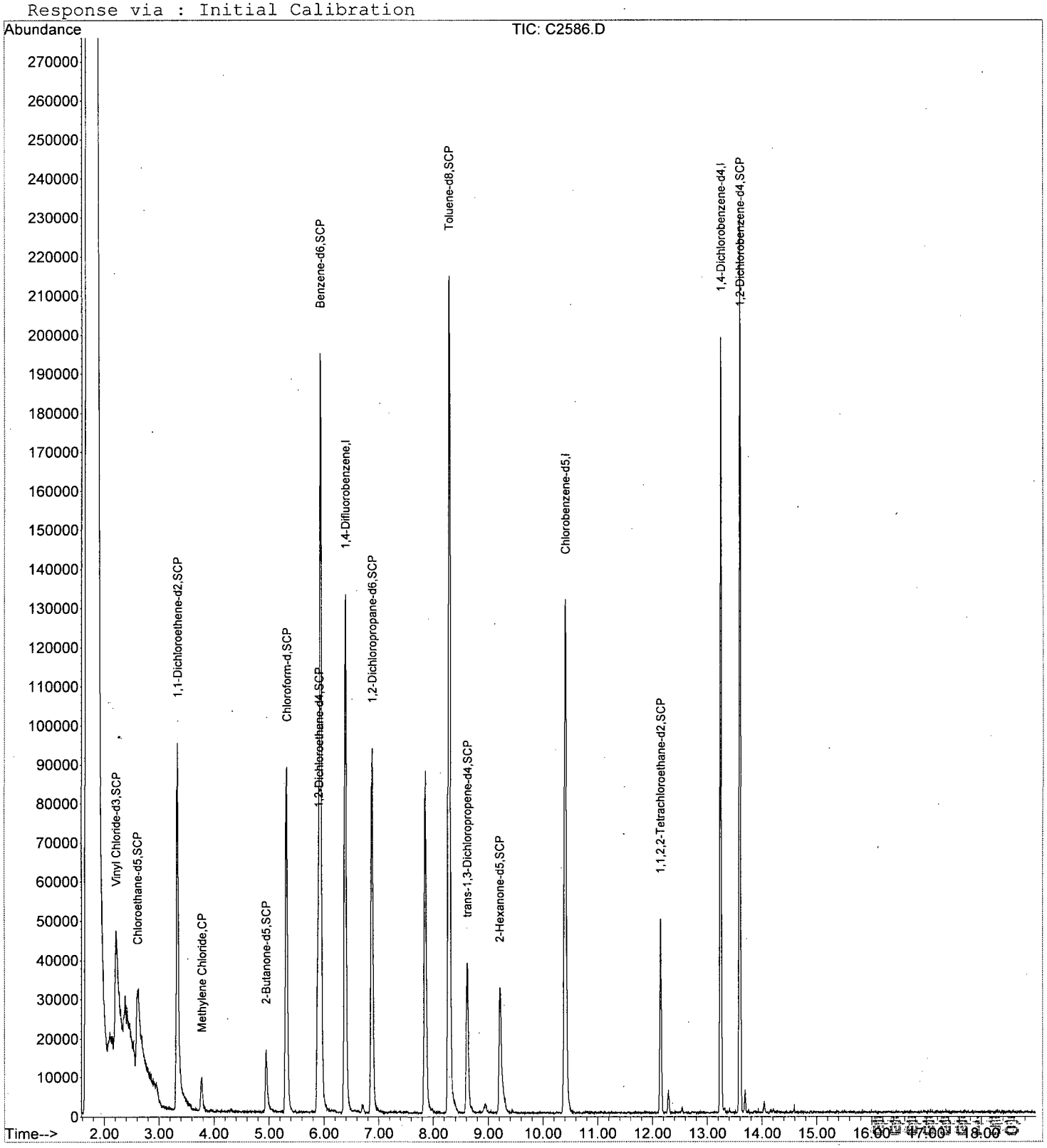
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

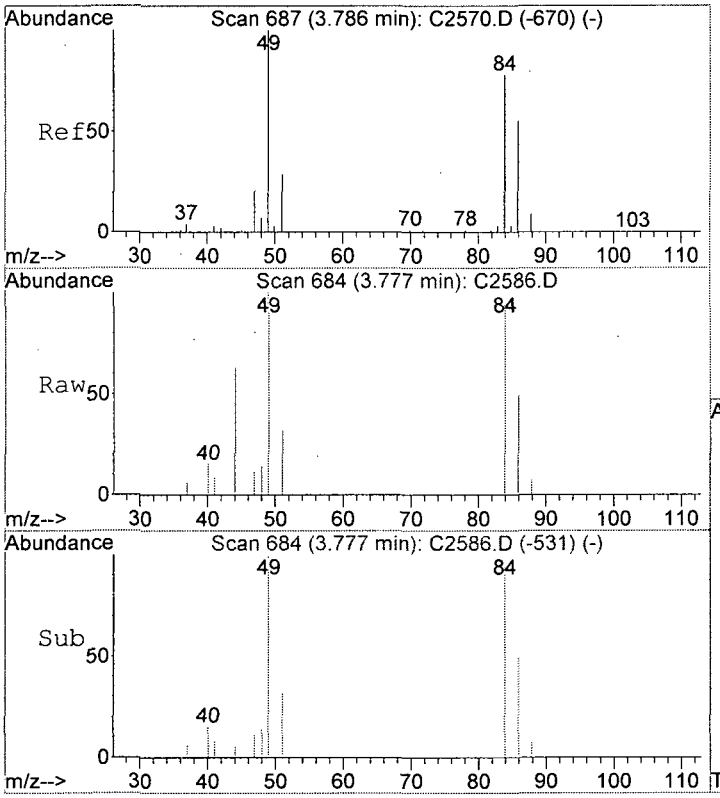
Data File : C:\MSDCHEM\1\DATA\C2586.D
Acq On : 13 Mar 2010 1:15
Sample : 0011759-07
Misc : F3FZ3 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:09 2010

Vial: 28
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



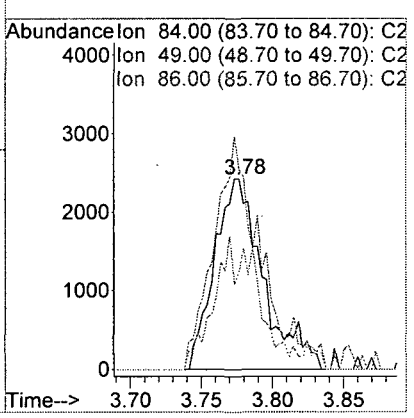
Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#16
Methylene Chloride
Concen: 0.4249 ug/L
RT: 3.78 min Scan# 684
Delta R.T. -0.01 min
Lab File: C2586.D
Acq: 13 Mar 2010 1:15

Tgt Ion: 84 Resp: 5754

Ion	Ratio	Lower	Upper
84	100		
49	117.3	102.8	142.8
86	66.8	44.9	84.9



000000159

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

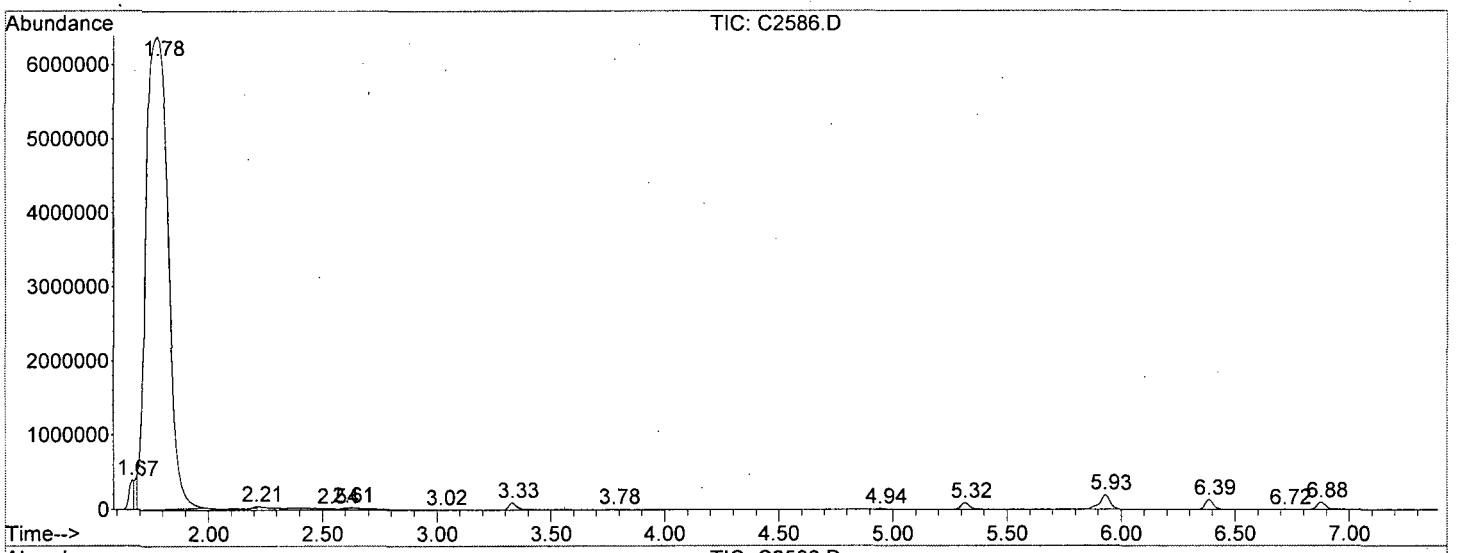
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.665	9	26	28	rBV	396174	522697	1.23%	1.118%
2	1.778	33	61	128	rVB	6370152	42340162	100.00%	90.593%
3	2.211	189	196	197	rBV	22168	22156	0.05%	0.047%
4	2.541	297	299	308	rVB	6734	6022	0.01%	0.013%
5	2.609	308	320	321	rBV2	19493	30529	0.07%	0.065%
6	3.016	444	447	451	rVB2	1120	1011	0.00%	0.002%
7	3.331	533	545	563	rBV2	93370	226912	0.54%	0.486%
8	3.777	670	684	692	rBV6	8652	19524	0.05%	0.042%
9	4.945	1037	1048	1064	rBV2	16124	37375	0.09%	0.080%
10	5.317	1147	1164	1187	rBV3	88666	229539	0.54%	0.491%
11	5.930	1327	1355	1377	rBV4	194310	593003	1.40%	1.269%
12	6.386	1477	1497	1520	rBV2	132513	329433	0.78%	0.705%
13	6.716	1599	1600	1606	rVB4	1832	1345	0.00%	0.003%
14	6.876	1634	1650	1670	rBV3	93529	249063	0.59%	0.533%
15	7.852	1938	1954	1973	rBV	87534	223172	0.53%	0.478%
16	8.285	2070	2089	2107	rBV2	214297	558341	1.32%	1.195%
17	8.619	2176	2193	2206	rBV5	38529	99964	0.24%	0.214%
18	9.209	2357	2377	2378	rBV2	32470	41977	0.10%	0.090%
19	9.306	2406	2407	2412	rVB3	2216	1063	0.00%	0.002%
20	10.406	2732	2750	2778	rBV3	131396	365782	0.86%	0.783%
21	12.146	3277	3292	3305	rBV4	49749	93348	0.22%	0.200%
22	12.290	3327	3337	3346	rBV5	6008	10156	0.02%	0.022%
23	12.540	3408	3415	3417	rBV4	1415	1034	0.00%	0.002%
24	13.243	3621	3634	3650	rBV2	198549	337586	0.80%	0.722%
25	13.593	3730	3743	3756	rBV	229089	381727	0.90%	0.817%
26	13.692	3764	3774	3782	rVB5	5965	8375	0.02%	0.018%
27	14.039	3876	3882	3891	rVB3	2919	4052	0.01%	0.009%
28	14.206	3929	3934	3940	rVB3	1215	1364	0.00%	0.003%

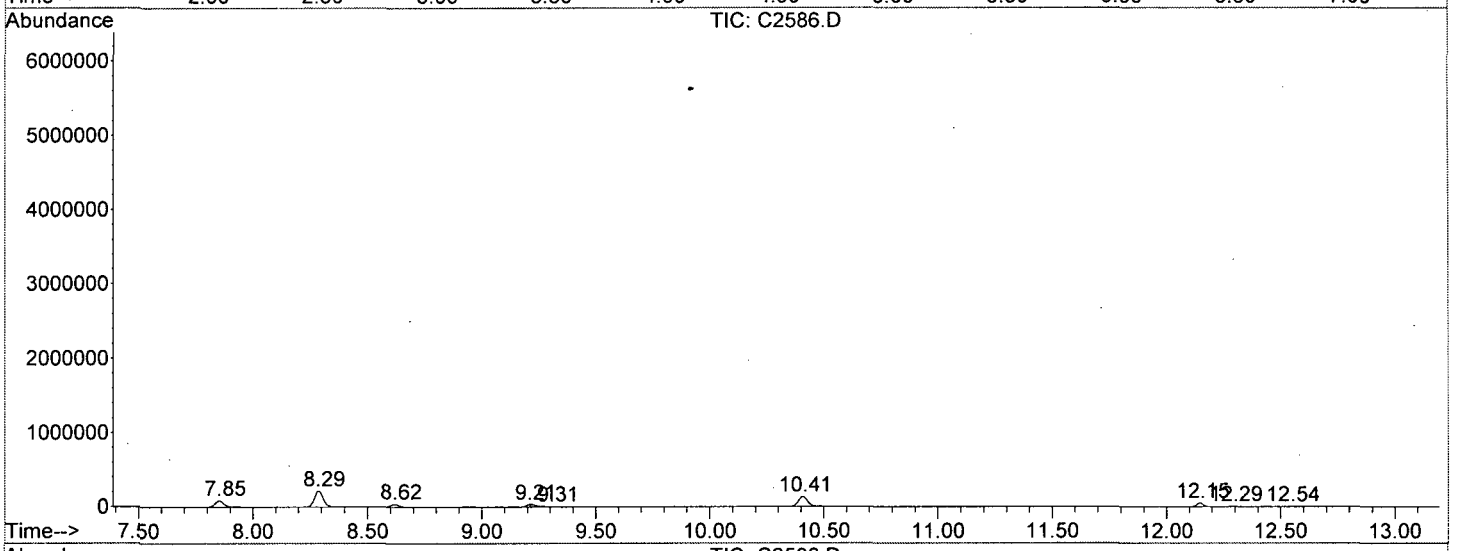
Sum of corrected areas: 46736712

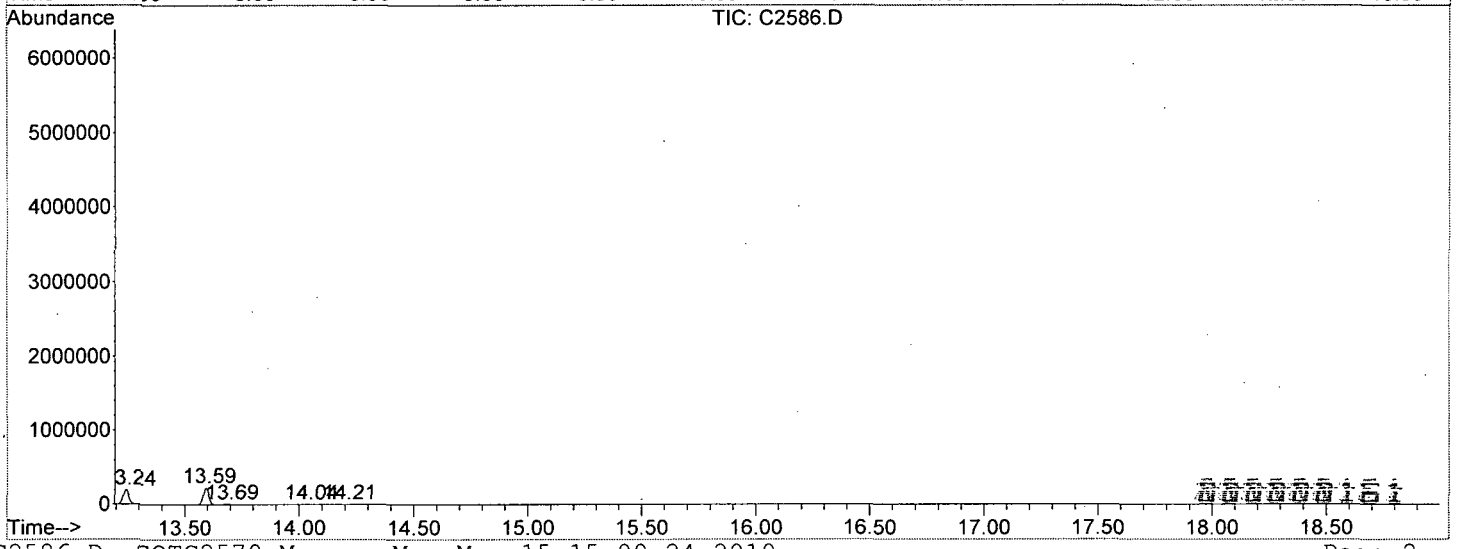
000000160

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On . : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

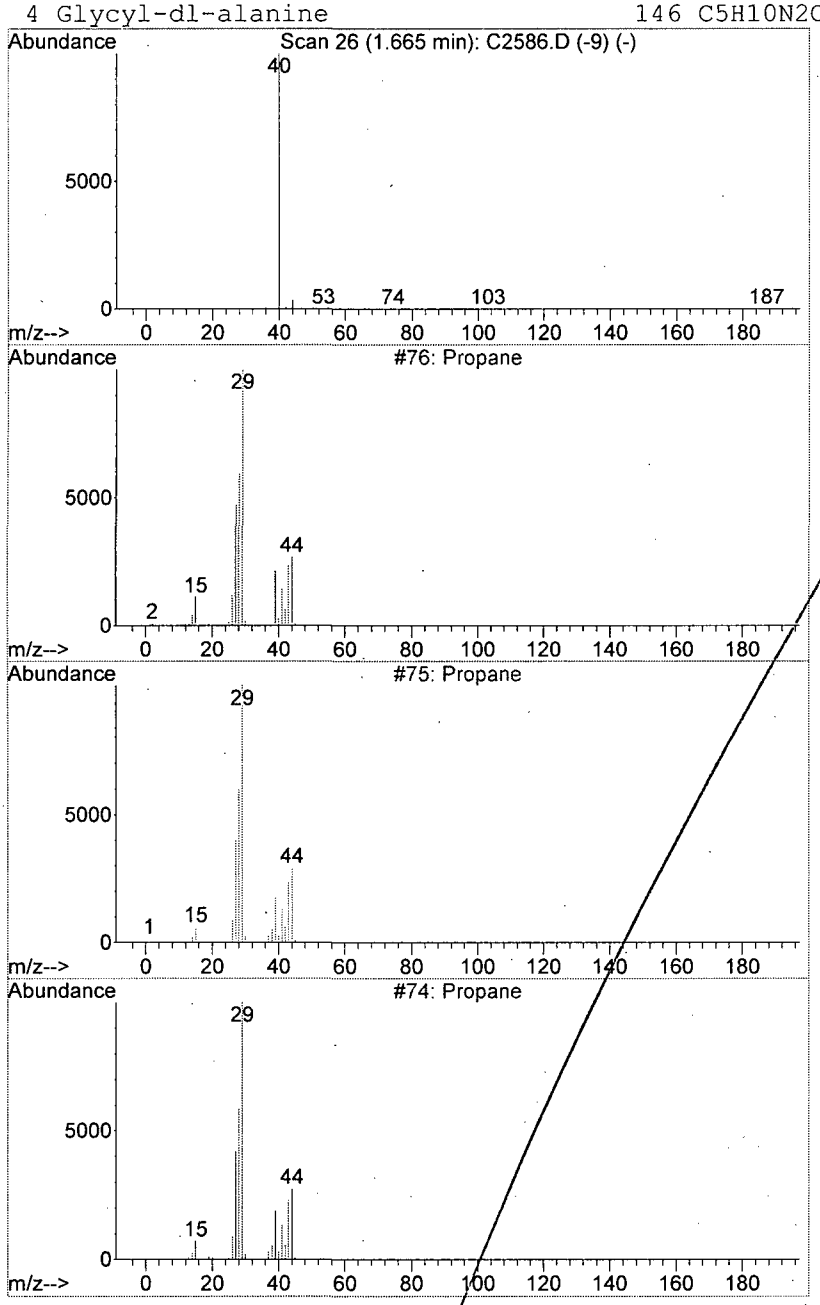
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

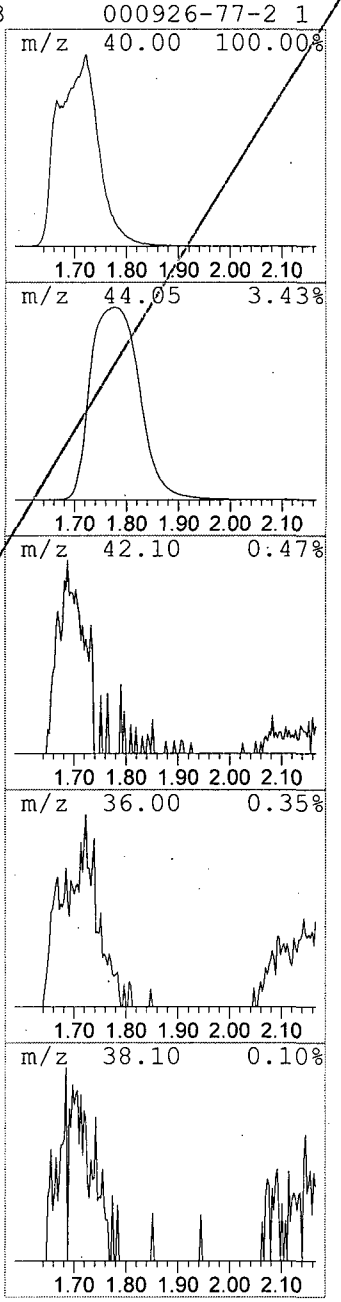
****

Peak Number 1 Propane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	7.93 ug/L	522697	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	1
2	Propane	44	C3H8	000074-98-6	1
3	Propane	44	C3H8	000074-98-6	1
4	Glycyl-dl-alanine	146	C5H10N2O3	000926-77-2	1





000000162

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

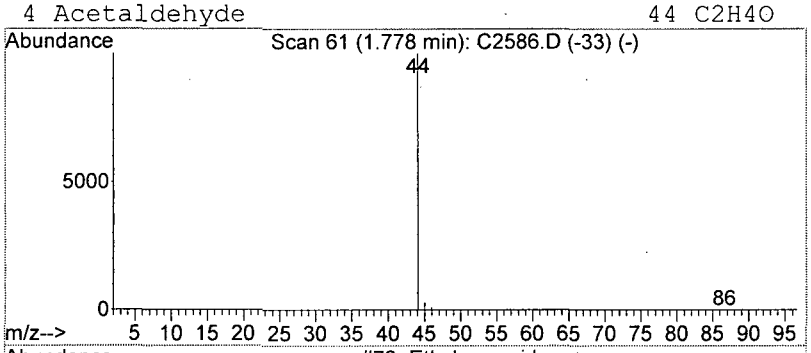
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

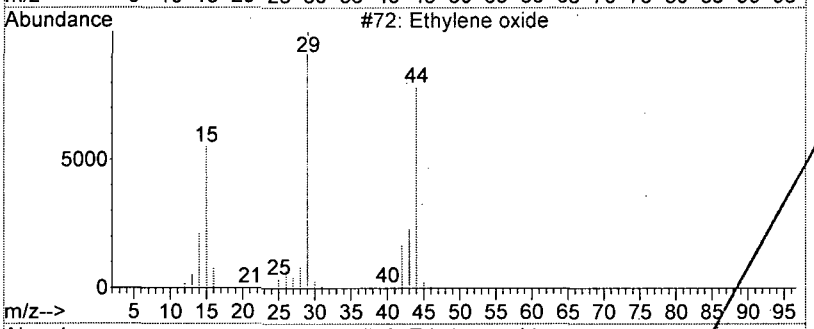
****

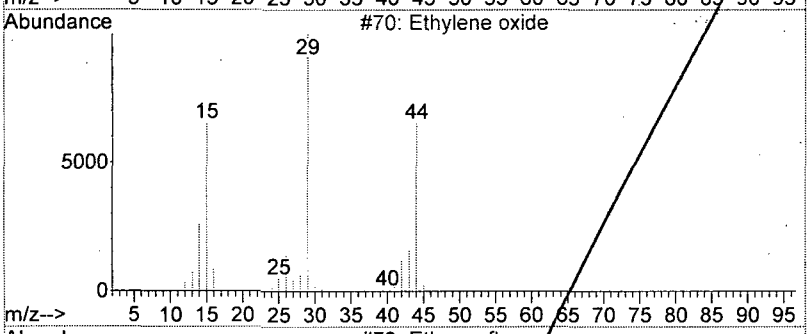
Peak Number 2 Ethylene oxide Concentration Rank 1

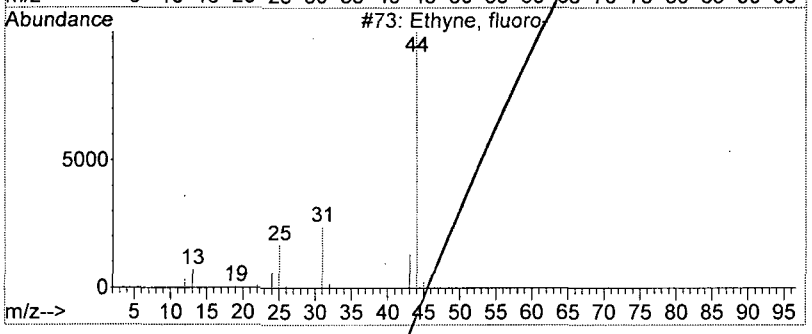
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	642.62 ug/L	42340200	1,4-Difluorobenzene	6.39

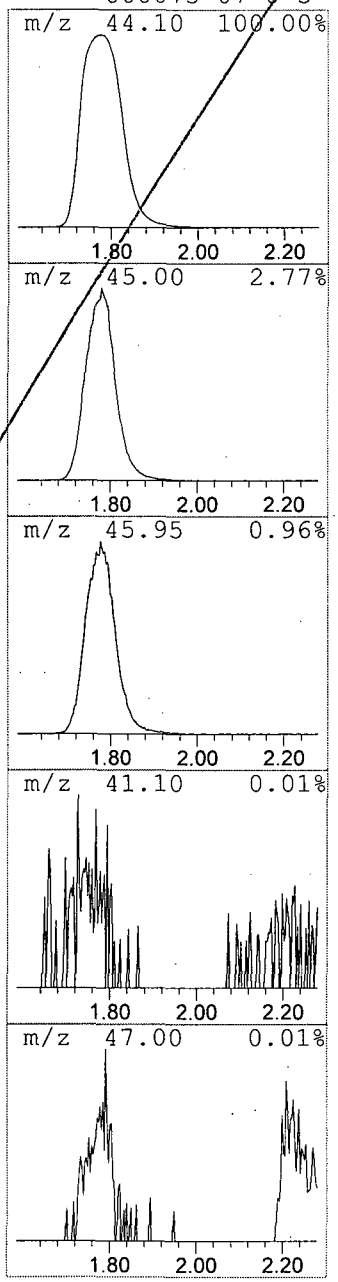
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylene oxide	44	C2H4O	000075-21-8	4
2	Ethylene oxide	44	C2H4O	000075-21-8	4
3	Ethyne, fluoro-	44	C2HF	002713-09-9	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3











000000163

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2586.D Vial: 28
Acq On : 13 Mar 2010 1:15 Operator: SP
Sample : 0011759-07 Inst : C-5973
Misc : F3FZ3 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

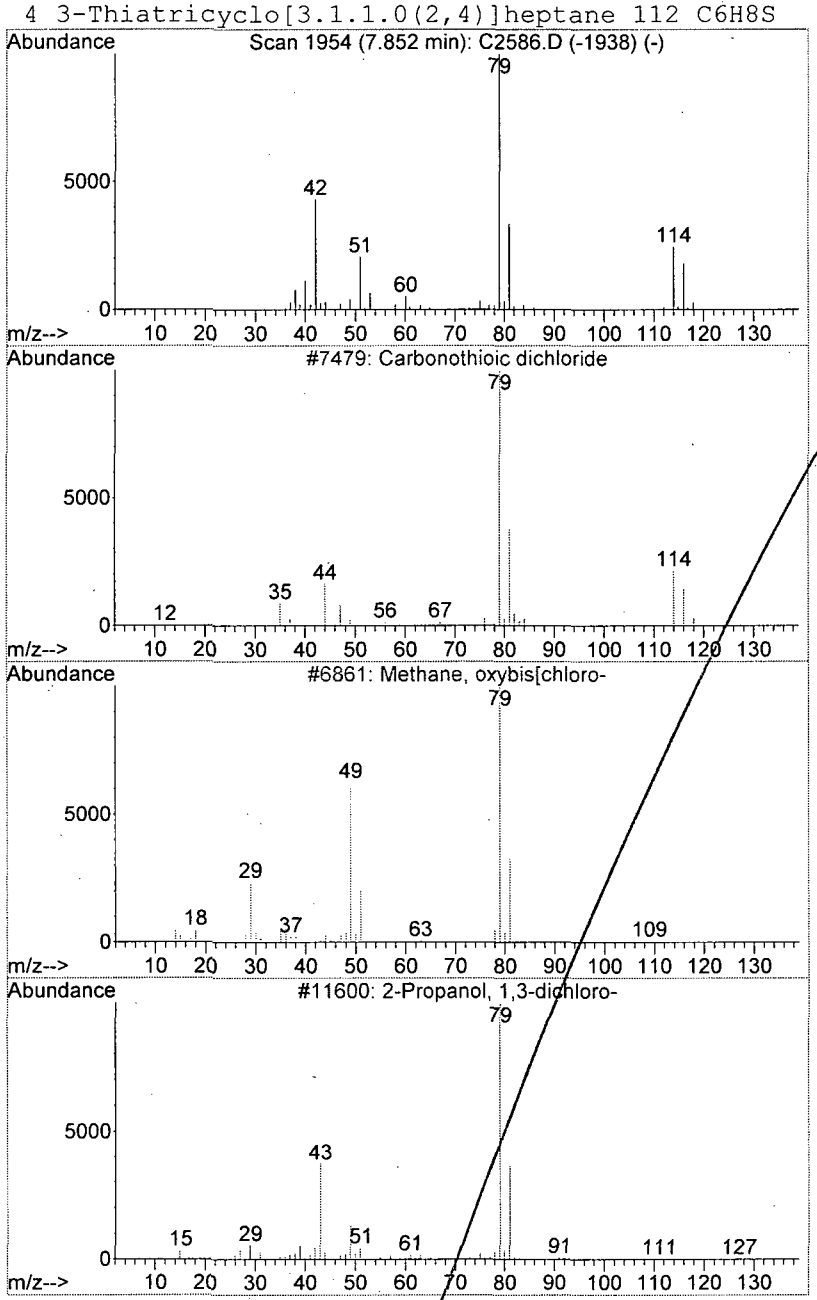
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

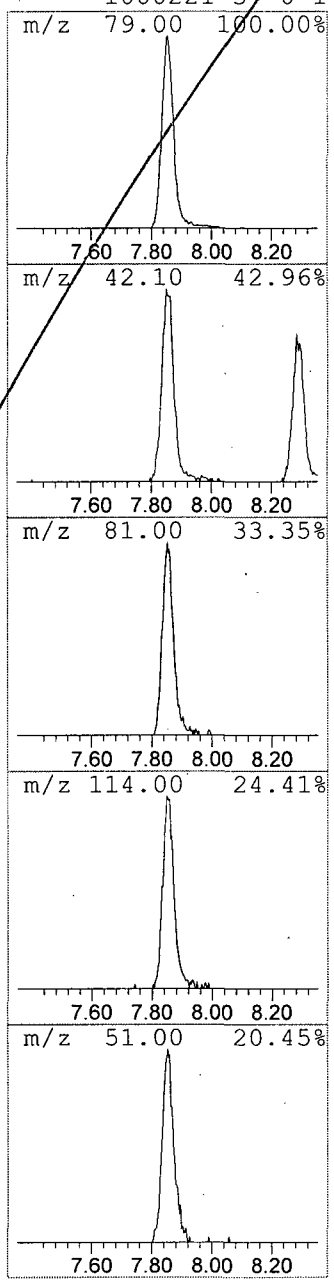
****

Peak Number 3 Carbonothioic dichloride Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.39 ug/L	223172	1,4-Difluorobenzene	6.39

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	37
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	17





Same as left cut

000000184

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 13 Mar 2010 1:15
Data File: C:\MSDCHEM\1\DATA\C2586.D
Name: 0011759-07
Misc: F3FZ3 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Propane	1.67	7.9	ug/L	522697	1	6.39	329433	5.0
Ethylene oxide	1.78	642.6	ug/L	42340200	1	6.39	329433	5.0
Carbonothioic dic...	7.85	3.4	ug/L	223172	1	6.39	329433	5.0

000000165

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

EPA SAMPLE NO.
F3FZ4

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2583.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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	3.4	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.39	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	0.50	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
79-01-6	Trichloroethene	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.
F3FZ4

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2583.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FZ4

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2583.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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.

000000168

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:46:45 2010 Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	175716	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	149968	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	67119	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.25	65	111592	5.5383 ug/L	0.01
Spiked Amount 5.0000	Range 65 - 131		Recovery = 110.77%		
7) Chloroethane-d5	2.63	69	89964	5.3025 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 106.05%		
10) 1,1-Dichloroethene-d2	3.35	63	104118	4.4211 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 88.42%		
20) 2-Butanone-d5	4.96	46	28246	29.9609 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 59.92%		
24) Chloroform-d	5.32	84	101259	4.7800 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 95.60%		
26) 1,2-Dichloroethane-d4	5.90	65	44185	4.2223 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 84.45%		
32) Benzene-d6	5.94	84	262271	5.7760 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 115.52%		
35) 1,2-Dichloropropane-d6	6.88	67	65792	4.9444 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 98.89%		
41) Toluene-d8	8.29	98	250856	5.7361 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 114.72%		
43) trans-1,3-Dichloropropene-	8.62	79	41402	3.4106 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 68.21%#		
47) 2-Hexanone-d5	9.21	63	20715	28.5362 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 57.07%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	30066	3.1158 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 62.32%#		
63) 1,2-Dichlorobenzene-d4	13.60	152	71998	5.1082 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 102.16%		

Target Compounds					Qvalue
13) Acetone	3.38	43	7775	3.3770 ug/L	96
16) Methylene Chloride	3.79	84	5910	0.3928 ug/L	99

000000165

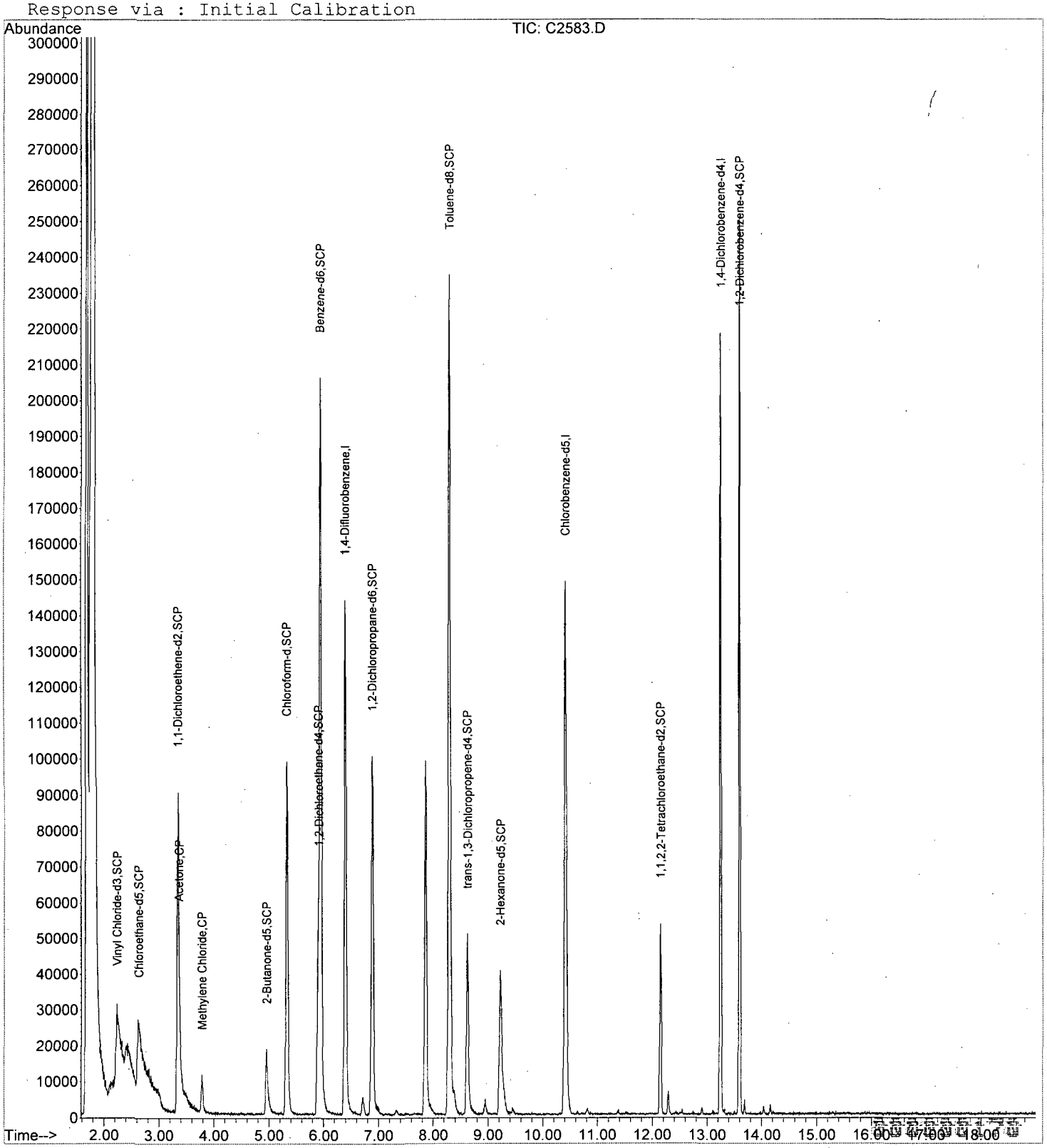
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

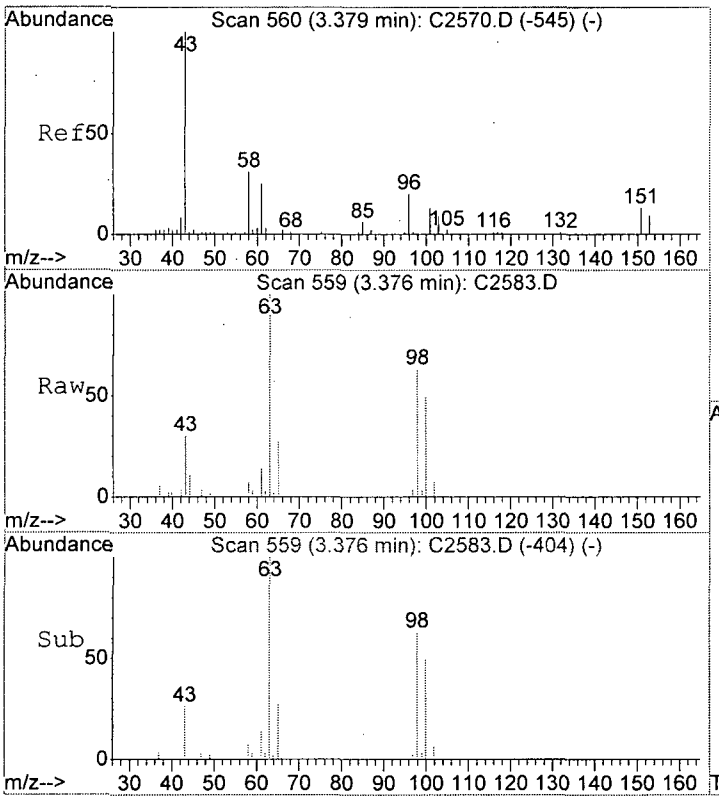
Data File : C:\MSDCHEM\1\DATA\C2583.D
Acq On : 12 Mar 2010 23:55
Sample : 0011759-04
Misc : F3FZ4 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:01 2010

Vial: 25
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



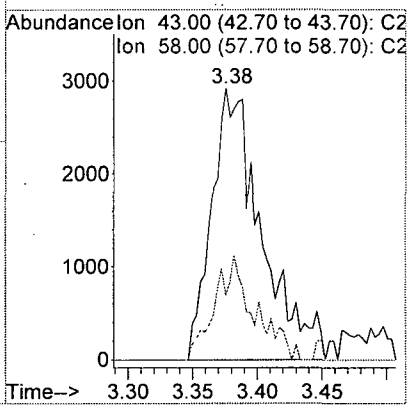
Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

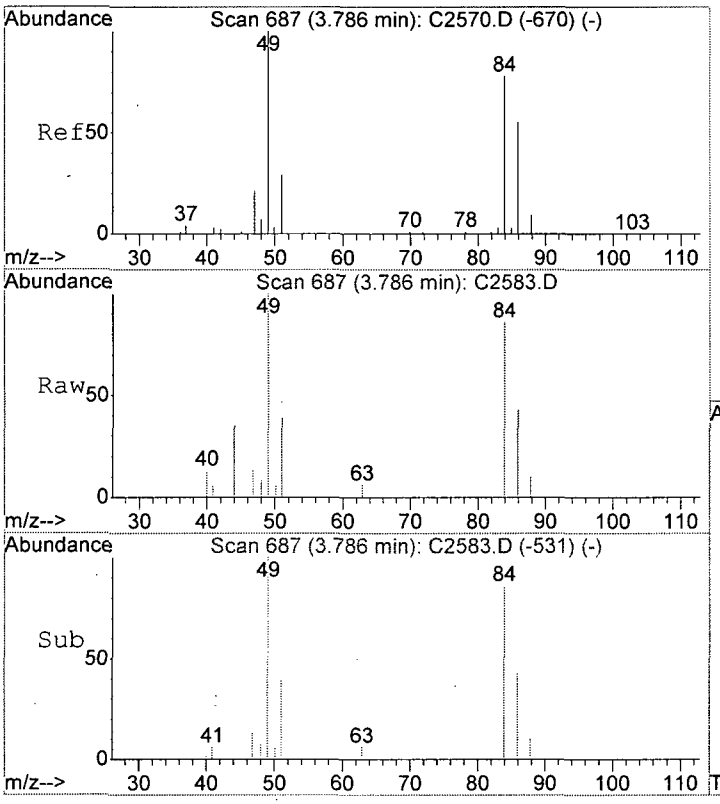


#13
Acetone
Concen: 3.3770 ug/L
RT: 3.38 min Scan# 559
Delta R.T. -0.00 min
Lab File: C2583.D
Acq: 12 Mar 2010 23:55

Tgt Ion: 43 Resp: 7775

Ion	Ratio	Lower	Upper
43	100		
58	30.2	12.2	52.2

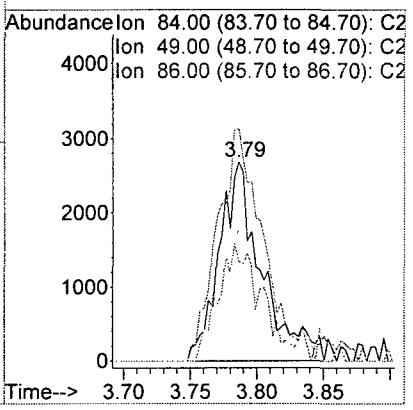




#16
Methylene Chloride
Concen: 0.3928 ug/L
RT: 3.79 min Scan# 687
Delta R.T. -0.00 min
Lab File: C2583.D
Acq: 12 Mar 2010 23:55

Tgt Ion: 84 Resp: 5910

Ion	Ratio	Lower	Upper
84	100		
49	124.2	102.8	142.8
86	64.6	44.9	84.9



0000001171

LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

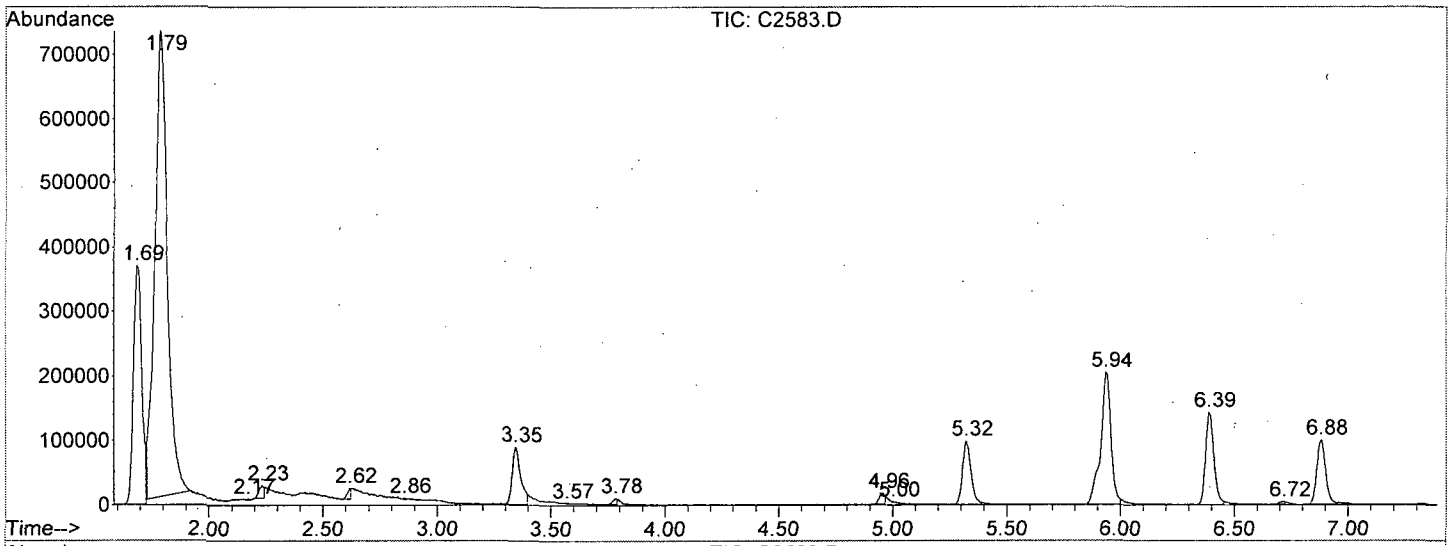
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.688	11	33	45	rBV	370445	949897	34.61%	11.894%
2	1.787	46	64	105	rVB	720276	2744624	100.00%	34.367%
3	2.172	181	184	185	rBV	2387	1075	0.04%	0.013%
4	2.233	193	203	206	rBV2	20443	30804	1.12%	0.386%
5	2.618	315	323	324	rBV2	17930	17399	0.63%	0.218%
6	2.856	396	397	401	rVB3	3201	1569	0.06%	0.020%
7	3.347	536	550	566	rBV3	89236	232068	8.46%	2.906%
8	3.571	619	620	625	rBV4	1488	1031	0.04%	0.013%
9	3.783	675	686	688	rBV5	9986	11902	0.43%	0.149%
10	4.958	1041	1052	1055	rBV	17749	28150	1.03%	0.352%
11	5.002	1064	1066	1069	rVB3	2223	1279	0.05%	0.016%
12	5.323	1149	1166	1186	rBV3	98434	248749	9.06%	3.115%
13	5.936	1330	1357	1377	rBV4	205449	640677	23.34%	8.022%
14	6.389	1482	1498	1518	rBV3	143380	356377	12.98%	4.462%
15	6.719	1590	1601	1602	rBV6	4219	5775	0.21%	0.072%
16	6.883	1635	1652	1674	rBV2	99822	268497	9.78%	3.362%
17	7.858	1939	1956	1974	rBV4	98916	262297	9.56%	3.284%
18	8.292	2074	2091	2111	rBV	233718	615777	22.44%	7.711%
19	8.430	2133	2134	2140	rVB2	1452	1279	0.05%	0.016%
20	8.622	2178	2194	2214	rBV2	50299	126367	4.60%	1.582%
21	8.940	2289	2293	2294	rBV2	1999	1337	0.05%	0.017%
22	9.219	2363	2380	2394	rBV5	40326	119591	4.36%	1.497%
23	9.447	2447	2451	2453	rBV3	1702	1195	0.04%	0.015%
24	10.413	2731	2752	2769	rBV3	148634	411513	14.99%	5.153%
25	10.814	2871	2877	2878	rBV2	1213	1047	0.04%	0.013%
26	12.149	3280	3293	3308	rVB2	53172	102598	3.74%	1.285%
27	12.284	3326	3335	3336	rBV3	5394	4270	0.16%	0.053%
28	12.290	3336	3337	3348	rVB4	6232	6319	0.23%	0.079%
29	12.900	3524	3527	3530	rBV2	1581	1168	0.04%	0.015%
30	12.912	3530	3531	3535	rVB2	1904	1121	0.04%	0.014%
31	13.243	3620	3634	3650	rBV2	217879	373385	13.60%	4.675%
32	13.593	3730	3743	3757	rBV2	250261	408563	14.89%	5.116%
33	13.692	3765	3774	3778	rBV5	4084	4322	0.16%	0.054%
34	14.032	3875	3880	3881	rBV	2139	1184	0.04%	0.015%
35	14.158	3913	3919	3926	rVB3	2650	3007	0.11%	0.038%

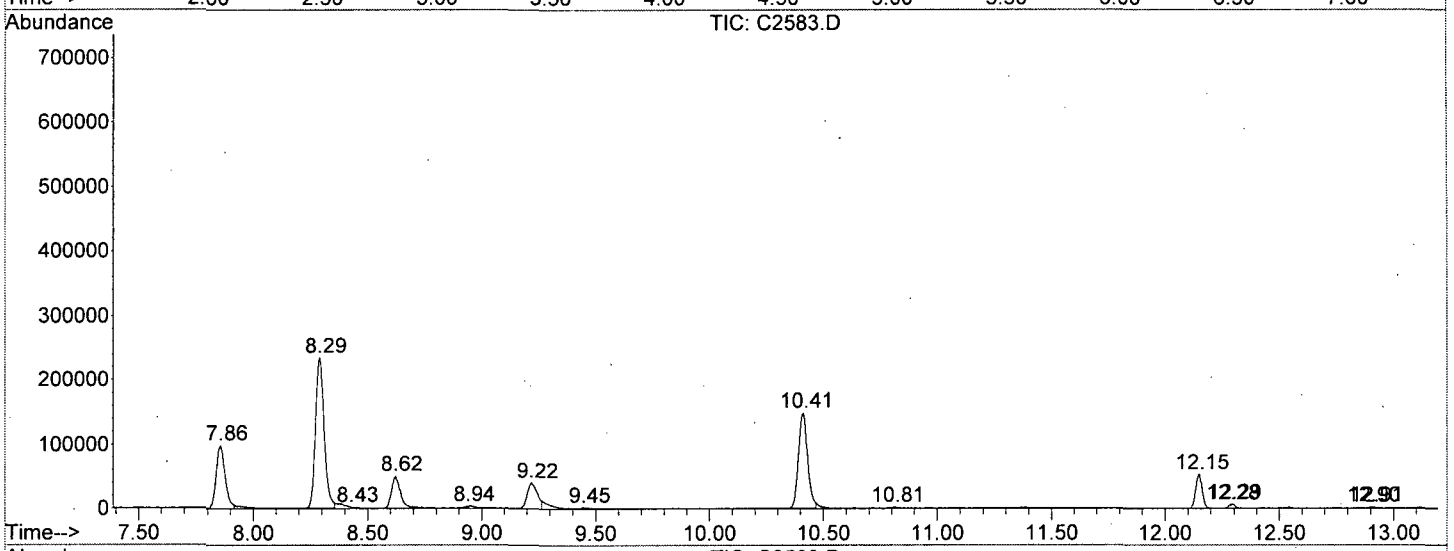
Sum of corrected areas: 7986213

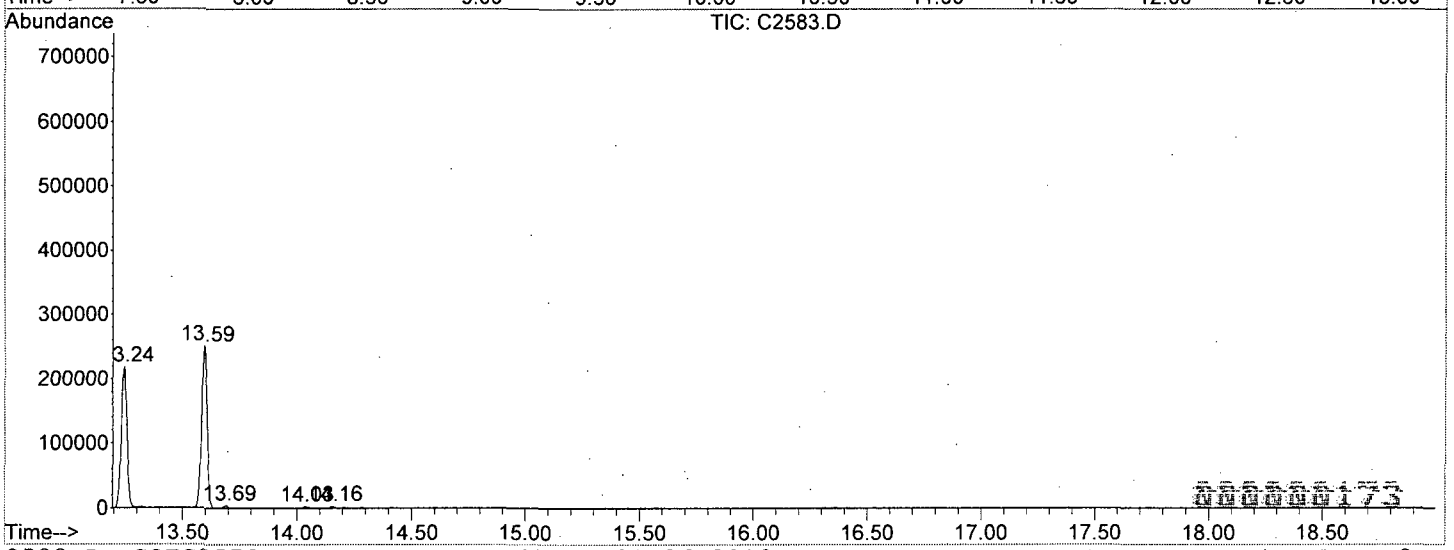
0000000172

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

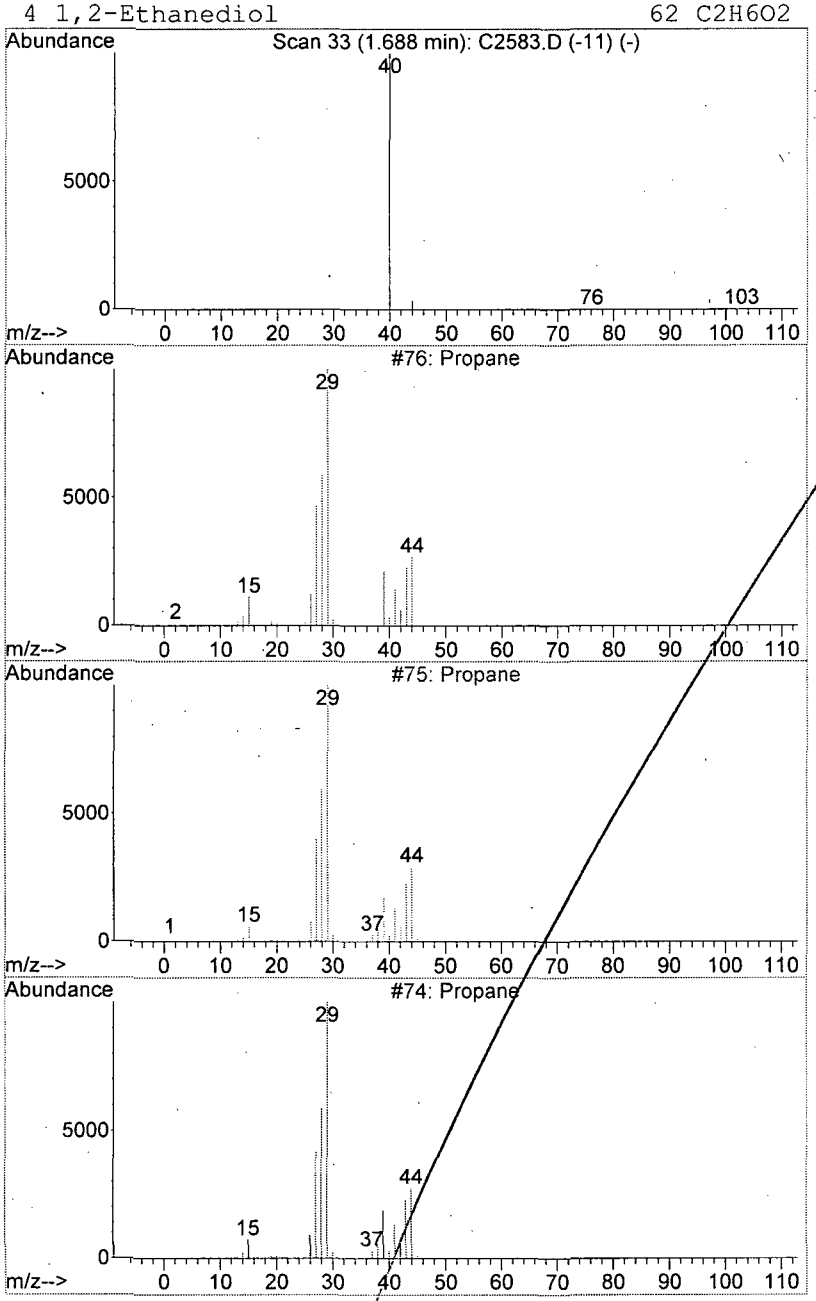
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

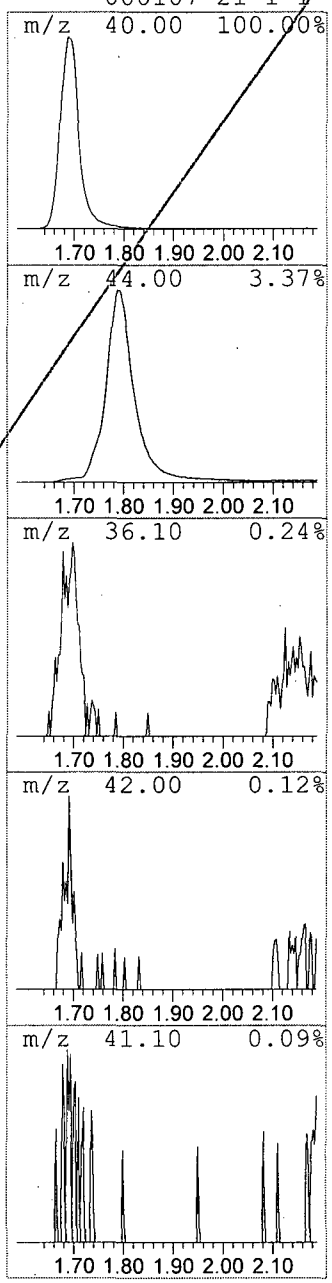
****

Peak Number 1 Propane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.69	13.33 ug/L	949897	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane	44	C3H8	000074-98-6	1
2	Propane	44	C3H8	000074-98-6	1
3	Propane	44	C3H8	000074-98-6	1
4	1,2-Ethanediol	62	C2H6O2	000107-21-1	1





000000174

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

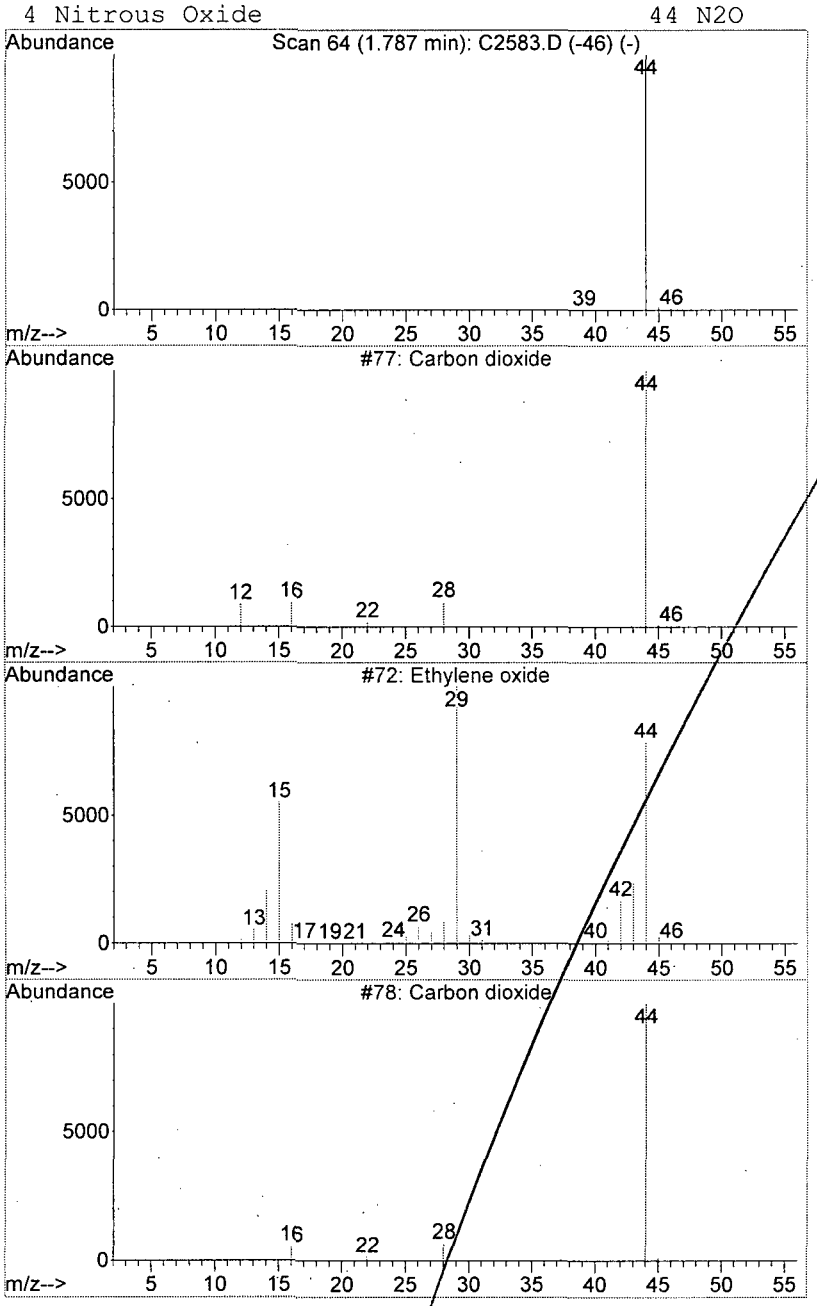
****

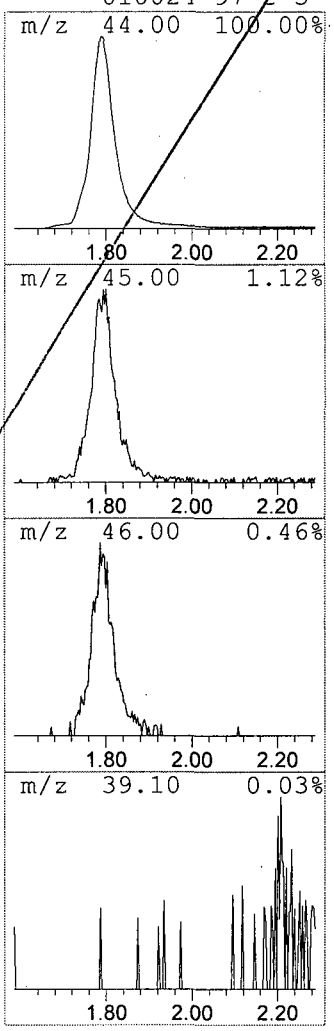
Peak Number 2 Carbon dioxide Concentration Rank 1

CO2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.79	38.51 ug/L	2744620	1,4-Difluorobenzene	6.39

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	Nitrous Oxide	44	N2O	010024-97-2	3





0000000175

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2583.D Vial: 25
Acq On : 12 Mar 2010 23:55 Operator: SP
Sample : 0011759-04 Inst : C-5973
Misc : F3FZ4 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

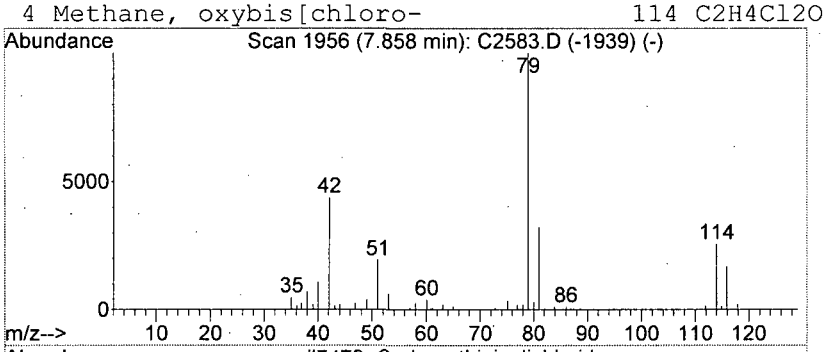
****

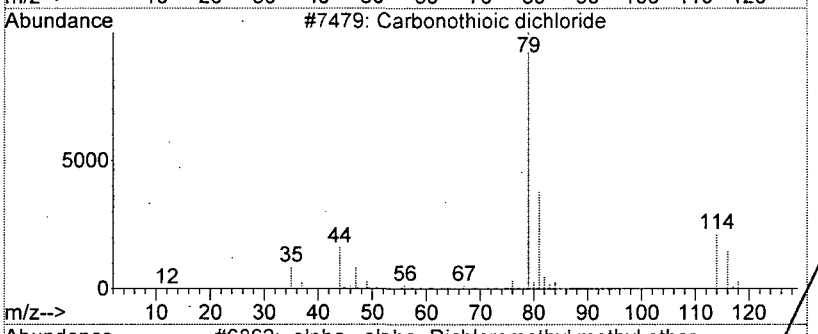
Peak Number 3 Carbonothioic dichloride Concentration Rank 3

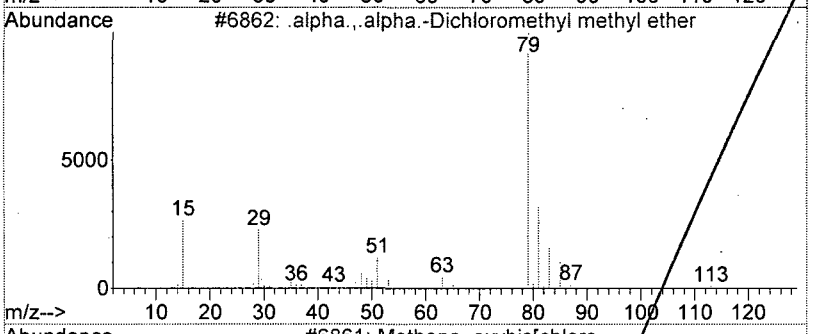
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.68 ug/L	262297	1,4-Difluorobenzene	6.39

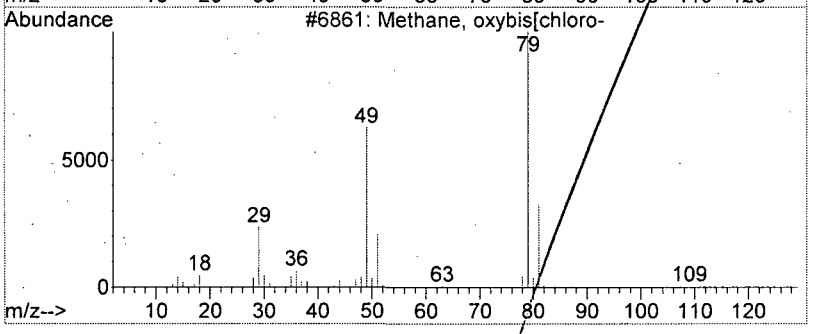
Dme ester cat

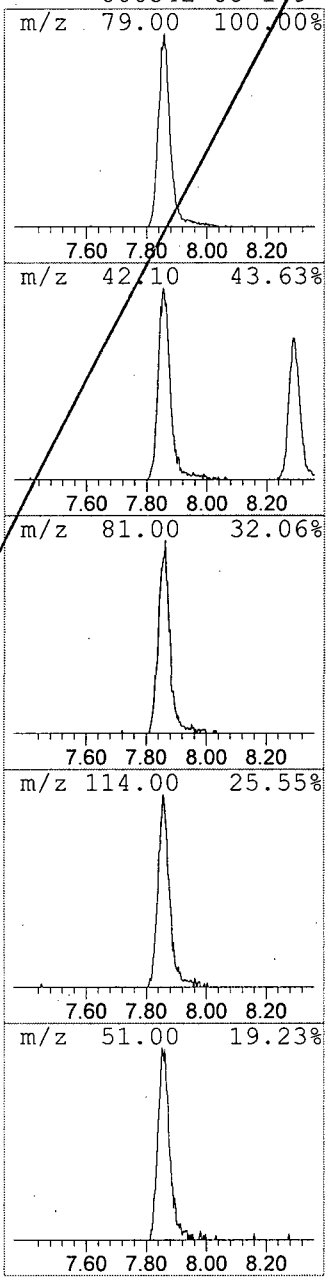
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	38
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	9











0000000176

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 23:55
Data File: C:\MSDCHEM\1\DATA\C2583.D
Name: 0011759-04
Misc: F3FZ4 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Propane	1.69	13.3	ug/L	949897	1	6.39	356377	5.0
Carbon dioxide	1.79	38.5	ug/L	2744620	1	6.39	356377	5.0
Carbonothioic dic...	7.86	3.7	ug/L	262297	1	6.39	356377	5.0

000000177

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

EPA SAMPLE NO.
F3FZ5

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2584.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.

F3FZ5

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2584.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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
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.
F3FZ5

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2584.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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.

000000180

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2584.D
Acq On : 13 Mar 2010 00:21
Sample : 0011759-05
Misc : F3FZ5 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:47:06 2010

Vial: 26
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	175451	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	149618	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	68478	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	113915	5.6621 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 113.24%		
7) Chloroethane-d5	2.62	69	91776	5.4174 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 108.35%		
10) 1,1-Dichloroethene-d2	3.35	63	102747	4.3694 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 87.39%		
20) 2-Butanone-d5	4.95	46	33281	35.3549 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 70.71%		
24) Chloroform-d	5.33	84	104002	4.9169 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 98.34%		
26) 1,2-Dichloroethane-d4	5.89	65	44030	4.2138 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 84.28%		
32) Benzene-d6	5.94	84	261192	5.7657 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 115.31%		
35) 1,2-Dichloropropane-d6	6.88	67	65155	4.9080 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 98.16%		
41) Toluene-d8	8.29	98	245915	5.6363 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 112.73%		
43) trans-1,3-Dichloropropene-	8.62	79	42351	3.4969 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 69.94%#		
47) 2-Hexanone-d5	9.22	63	24090	33.2631 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 66.53%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	32968	3.4246 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 68.49%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	73941	5.1420 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 102.84%		

Target Compounds Qvalue

000000181

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

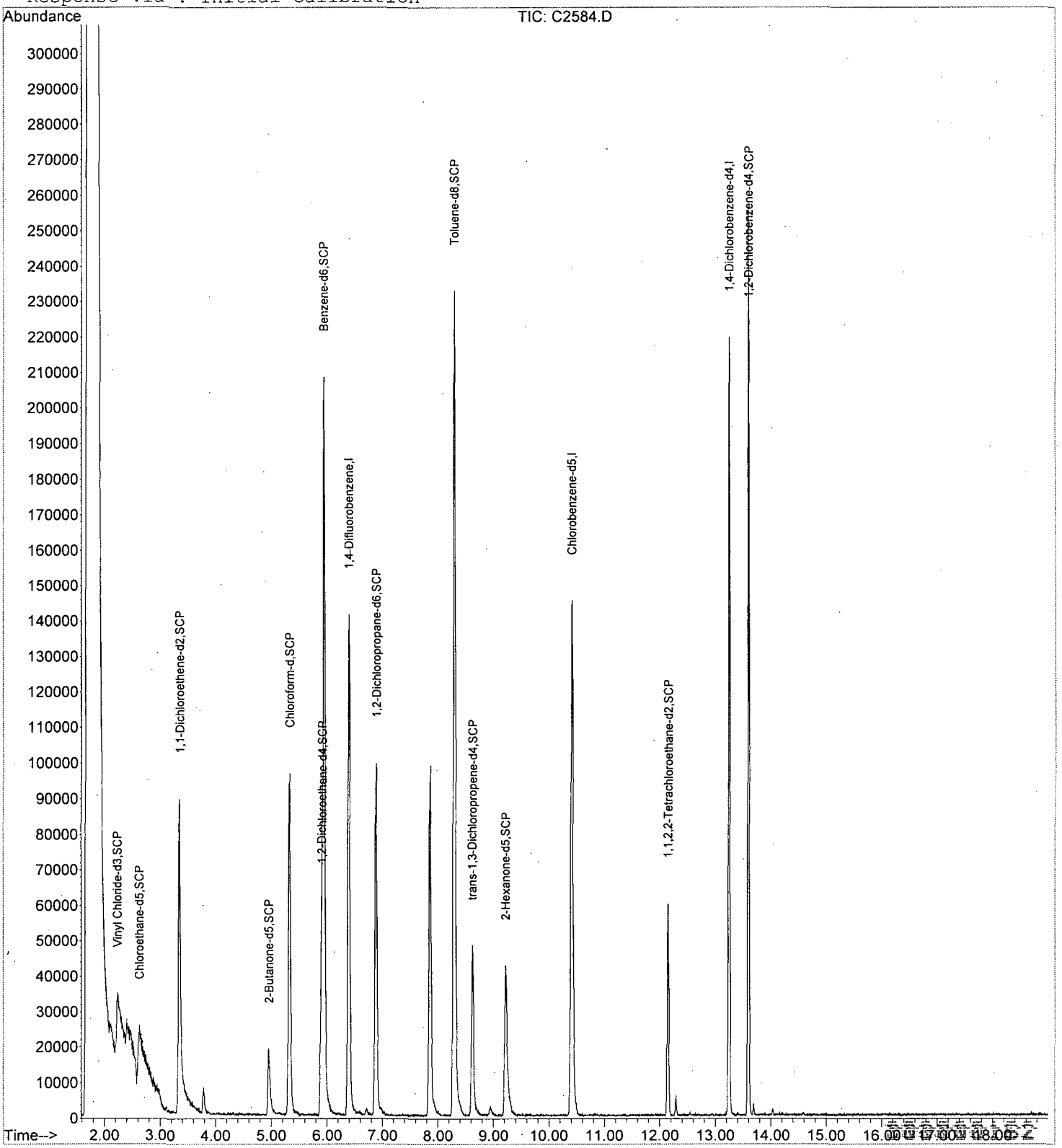
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2584.D
Acq On : 13 Mar 2010 00:21
Sample : 0011759-05
Misc : F3FZ5 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:02 2010

Vial: 26
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2584.D
Acq On : 13 Mar 2010 00:21
Sample : 0011759-05
Misc : F3FZ5 25ML
MS Integration Params: Lscint.p

Vial: 26
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1000 Area counts
Max Peaks: 40
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

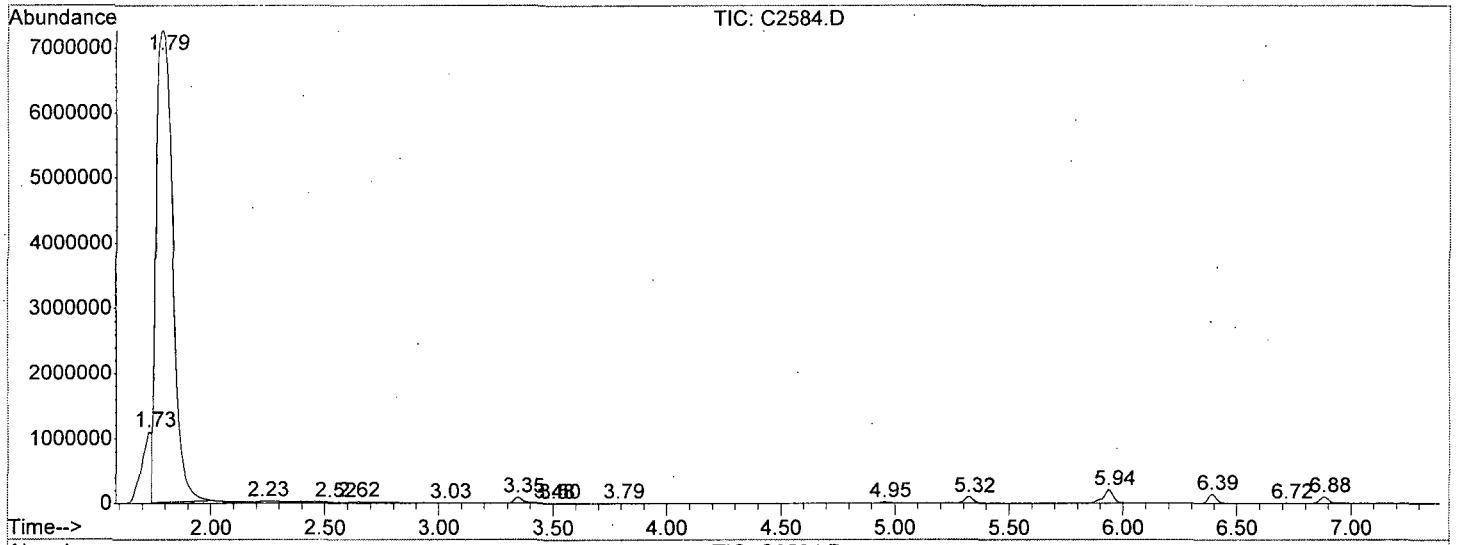
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.730	12	46	49	rBV2	1102602	3247176	8.95%	7.411%
2	1.787	49	64	134	rVB	7240834	36265482	100.00%	82.765%
3	2.227	196	201	202	rBV3	10600	8452	0.02%	0.019%
4	2.522	291	293	294	rBV2	3201	1453	0.00%	0.003%
5	2.625	311	325	329	rBV3	16516	33197	0.09%	0.076%
6	3.026	447	450	455	rVB4	1920	1689	0.00%	0.004%
7	3.347	532	550	576	rBV2	88482	242444	0.67%	0.553%
8	3.478	589	591	595	rVB4	2417	1713	0.00%	0.004%
9	3.504	595	599	601	rBV3	1227	1171	0.00%	0.003%
10	3.786	677	687	698	rBV5	7318	16535	0.05%	0.038%
11	4.955	1038	1051	1056	rBV2	18739	34928	0.10%	0.080%
12	5.324	1151	1166	1186	rBV2	95553	241516	0.67%	0.551%
13	5.936	1328	1357	1377	rBV4	208058	643326	1.77%	1.468%
14	6.389	1482	1498	1522	rBV2	140946	360057	0.99%	0.822%
15	6.716	1597	1600	1605	rVB3	1353	1284	0.00%	0.003%
16	6.883	1635	1652	1668	rBV3	98627	260496	0.72%	0.595%
17	7.855	1938	1955	1974	rBV3	98759	258307	0.71%	0.590%
18	8.292	2071	2091	2108	rBV2	232536	606603	1.67%	1.384%
19	8.430	2132	2134	2140	rVB4	1188	1058	0.00%	0.002%
20	8.619	2177	2193	2210	rBV3	47948	125234	0.35%	0.286%
21	9.216	2364	2379	2396	rBV4	42245	129859	0.36%	0.296%
22	10.410	2732	2751	2775	rBV3	144825	411353	1.13%	0.939%
23	12.149	3276	3293	3310	rBV3	59818	115259	0.32%	0.263%
24	12.293	3331	3338	3344	rBV4	5253	6316	0.02%	0.014%
25	13.243	3620	3634	3651	rBV2	218791	377931	1.04%	0.863%
26	13.593	3731	3743	3762	rBV2	256090	421284	1.16%	0.961%
27	13.686	3768	3772	3773	rBV	2859	1782	0.00%	0.004%
28	14.039	3881	3882	3889	rVB3	2023	1463	0.00%	0.003%

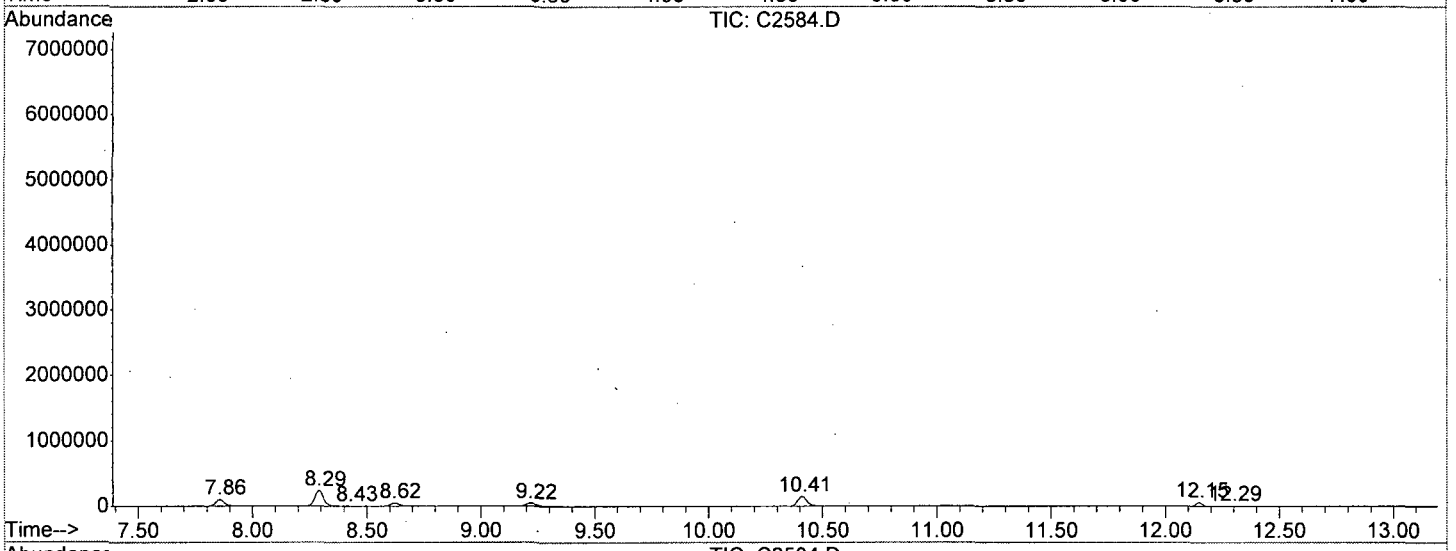
Sum of corrected areas: 43817368

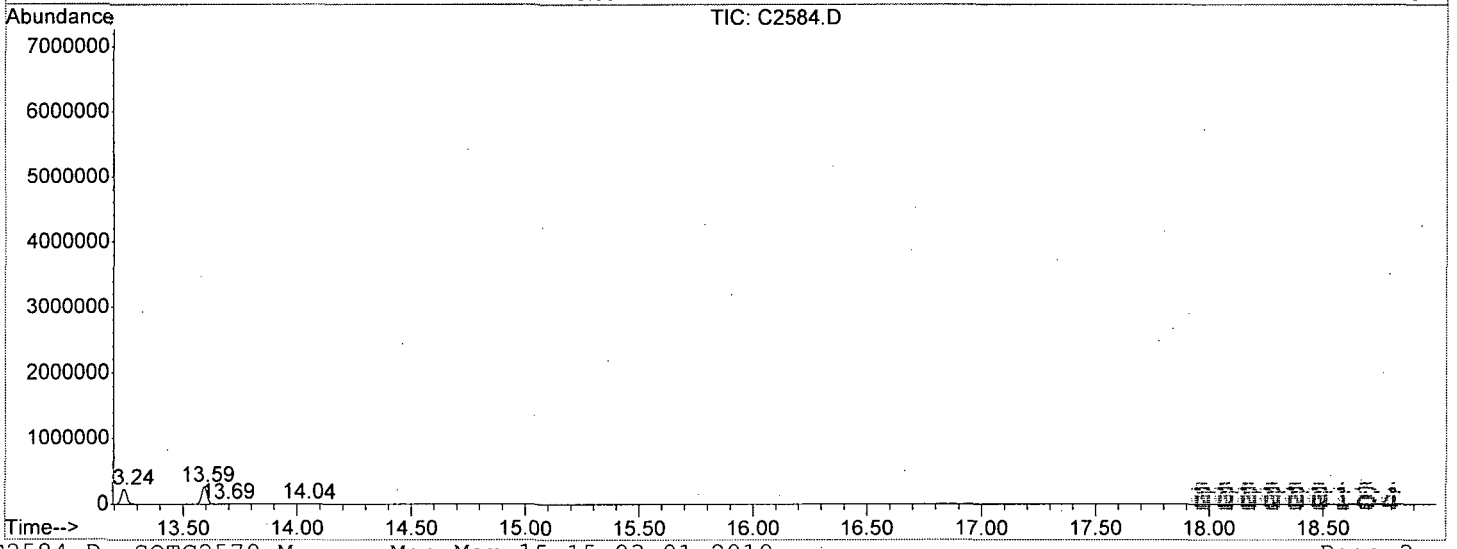
000000183

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2584.D Vial: 26
Acq On : 13 Mar 2010 00:21 Operator: SP
Sample : 0011759-05 Inst : C-5973
Misc : F3FZ5 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2584.D Vial: 26
Acq On : 13 Mar 2010 00:21 Operator: SP
Sample : 0011759-05 Inst : C-5973
Misc : F3FZ5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

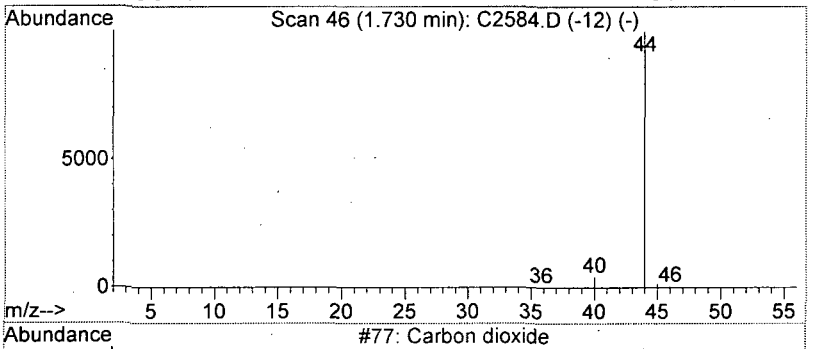
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

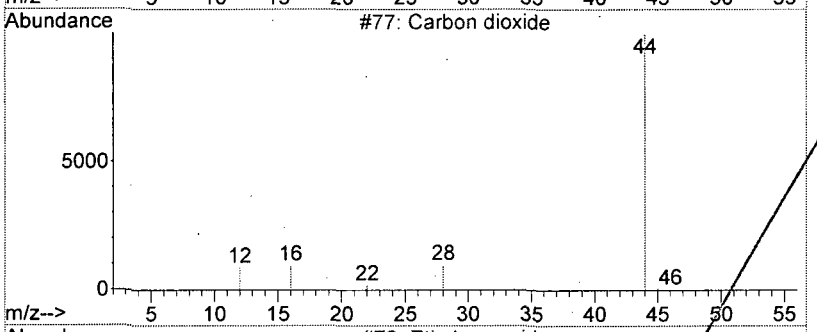
****

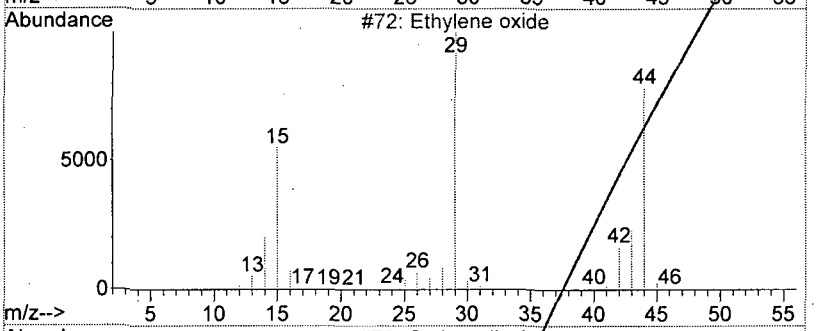
Peak Number 1 Carbon dioxide Concentration Rank 2

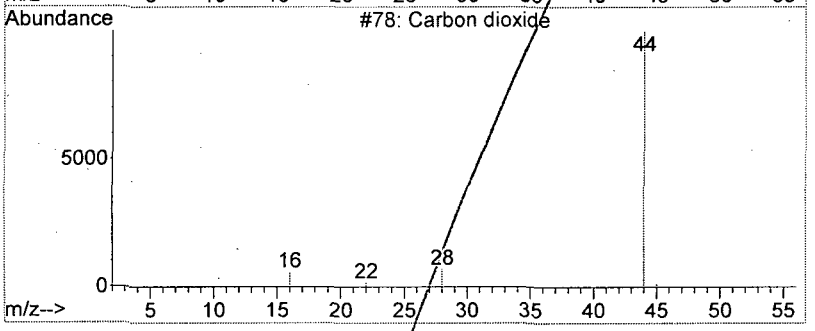
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.73	45.09 ug/L	3247180	1,4-Difluorobenzene	6.39

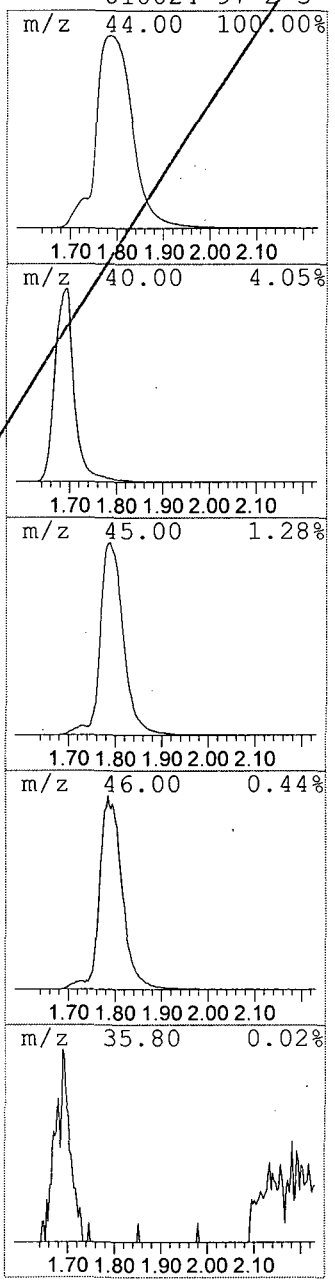
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Carbon dioxide	44	CO2	000124-38-9	3
4	Nitrous Oxide	44	N2O	010024-97-2	3











00000185

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2584.D Vial: 26
Acq On : 13 Mar 2010 00:21 Operator: SP
Sample : 0011759-05 Inst : C-5973
Misc : F3FZ5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

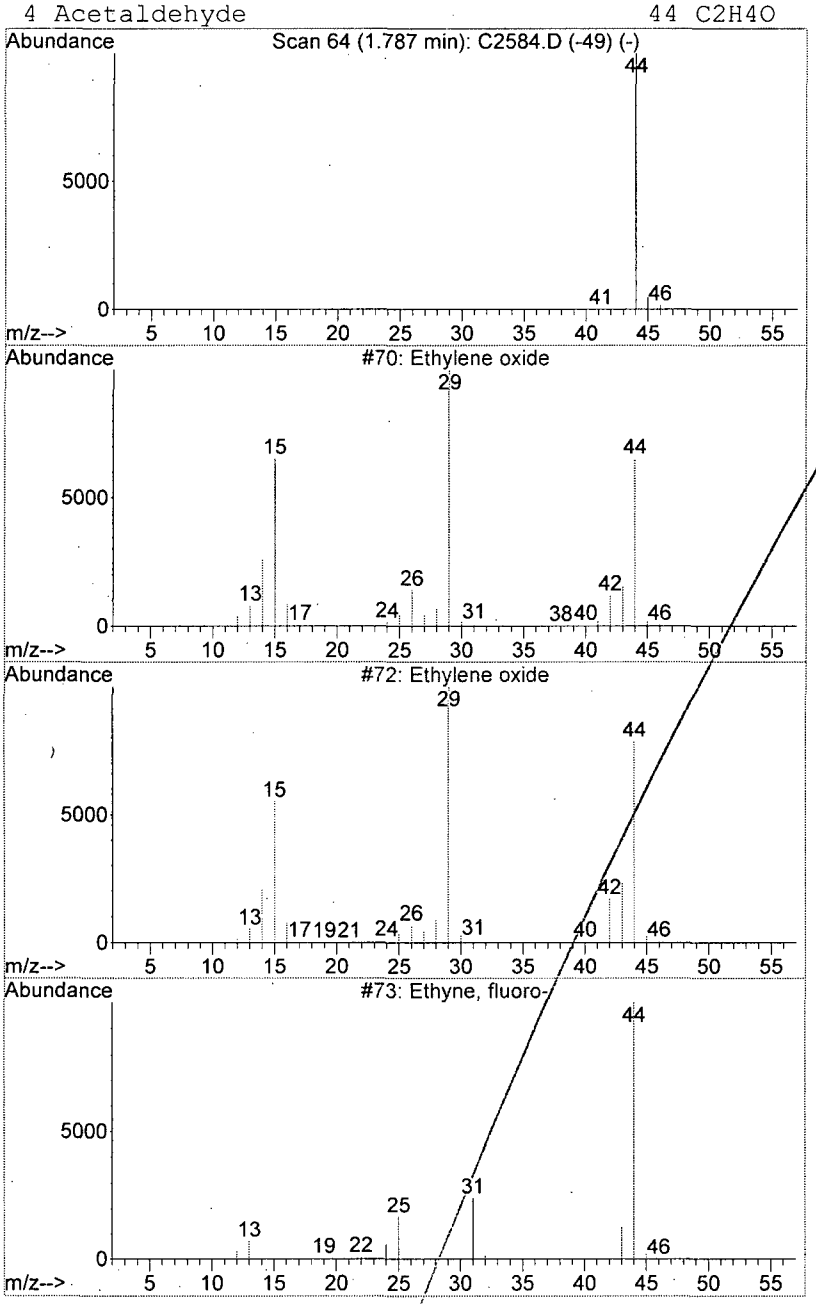
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

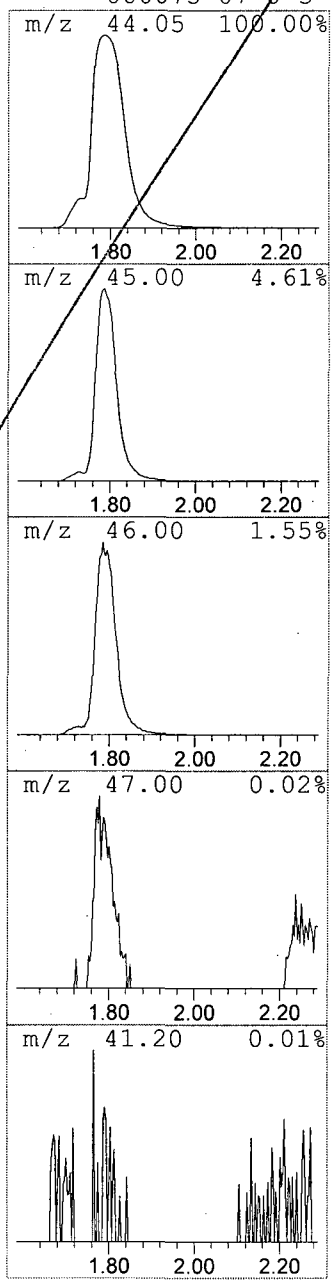
****

Peak Number 2 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.79	503.61 ug/L	36265500	1,4-Difluorobenzene	6.39

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





C02

00000186

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2584.D Vial: 26
Acq On : 13 Mar 2010 00:21 Operator: SP
Sample : 0011759-05 Inst : C-5973
Misc : F3FZ5 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

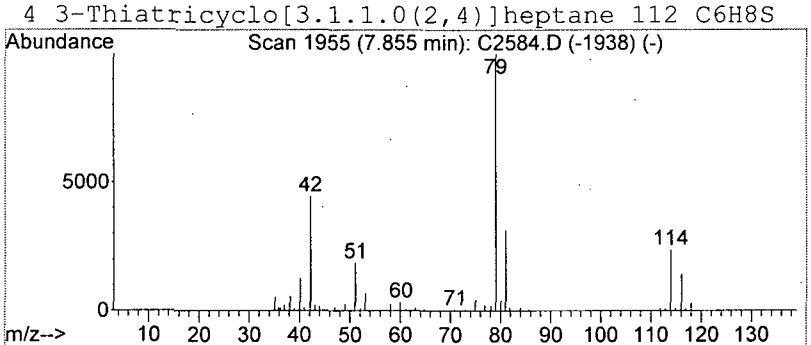
Done acteqent

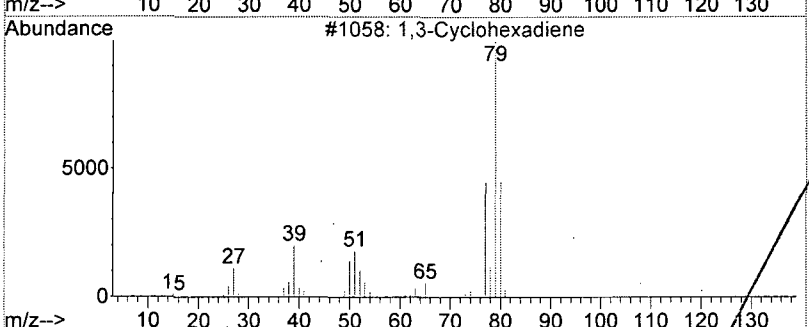
****

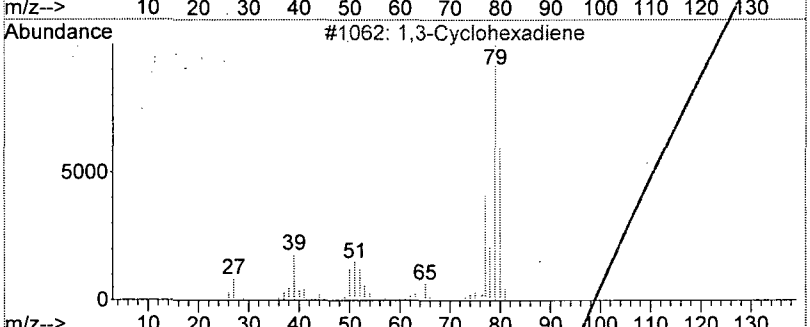
Peak Number 3 1,3-Cyclohexadiene Concentration Rank 3

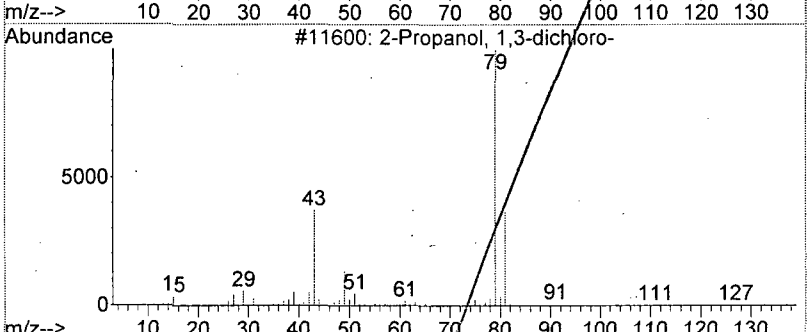
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.59 ug/L	258307	1,4-Difluorobenzene	6.39

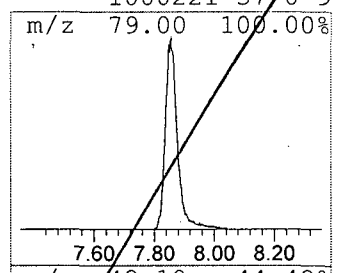
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclohexadiene	80	C6H8	000592-57-4	23
2	1,3-Cyclohexadiene	80	C6H8	000592-57-4	23
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9

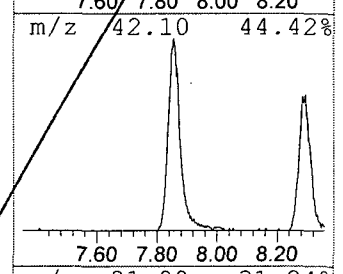


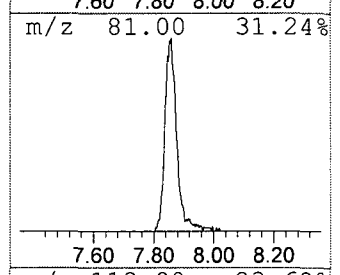


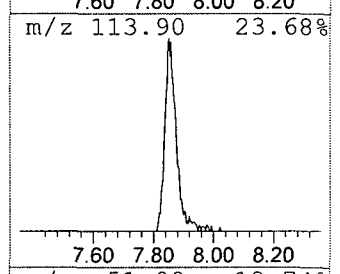


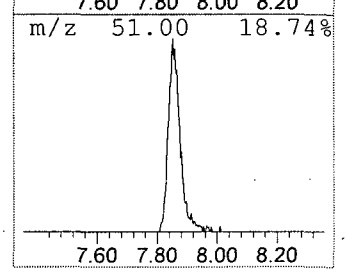












000000187

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 13 Mar 2010 00:21
Data File: C:\MSDCHEM\1\DATA\C2584.D
Name: 0011759-05
Misc: F3FZ5 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Carbon dioxide	1.73	45.1	ug/L	3247180	1	6.39	360057	5.0
Ethylene oxide	1.79	503.6	ug/L	36265500	1	6.39	360057	5.0
1,3-Cyclohexadiene	7.86	3.6	ug/L	258307	1	6.39	360057	5.0

000000188

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

EPA SAMPLE NO.
F3FZ6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2585.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.
F3FZ6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2585.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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
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

000000150

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

EPA SAMPLE NO.
F3FZ6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011759-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2585.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/11/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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 (13.24)	14.04	0.54	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\C2585.D
Acq On : 13 Mar 2010 00:48
Sample : 0011759-06
Misc : F3FZ6 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:47:20 2010

Vial: 27
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	164842	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	141646	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	62143	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.22	65	106884	5.6545 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 113.09%		
7) Chloroethane-d5	2.63	69	89474	5.6214 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 112.43%		
10) 1,1-Dichloroethene-d2	3.34	63	101571	4.5974 ug/L	-0.01
Spiked Amount 5.0000	Range 55 - 104		Recovery = 91.95%		
20) 2-Butanone-d5	4.95	46	31410	35.5147 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 71.03%		
24) Chloroform-d	5.32	84	102226	5.1439 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 102.88%		
26) 1,2-Dichloroethane-d4	5.89	65	42857	4.3655 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 87.31%		
32) Benzene-d6	5.94	84	249406	5.8154 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 116.31%		
35) 1,2-Dichloropropane-d6	6.88	67	63942	5.0877 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 101.75%		
41) Toluene-d8	8.29	98	239625	5.8012 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 116.02%		
43) trans-1,3-Dichloropropene-	8.62	79	39735	3.4655 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 69.31%#		
47) 2-Hexanone-d5	9.21	63	22710	33.1224 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 66.24%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	30848	3.3847 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 67.69%#		
63) 1,2-Dichlorobenzene-d4	13.60	152	68518	5.2506 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 105.01%		

Target Compounds Qvalue

000000192

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

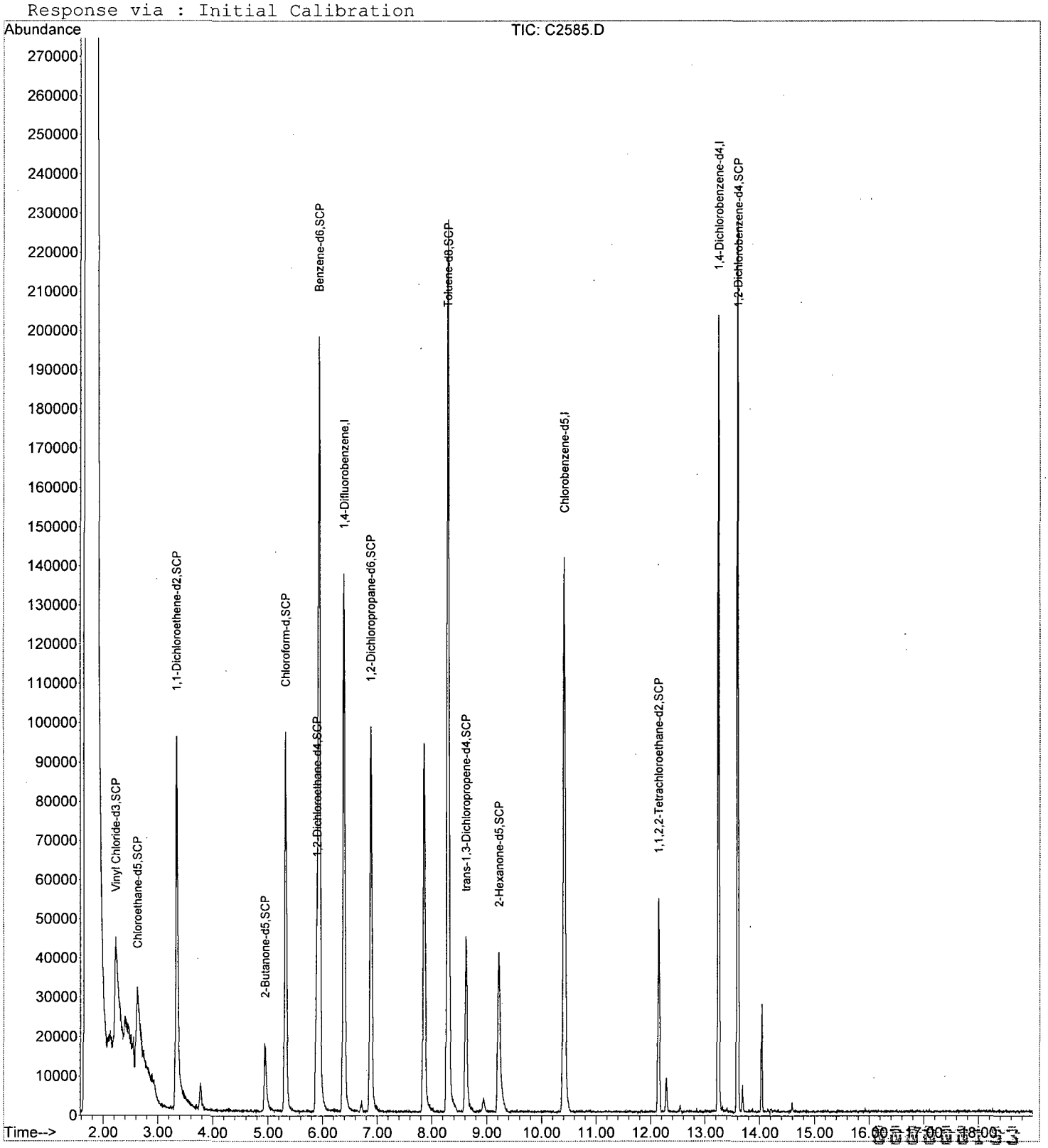
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2585.D
Acq On : 13 Mar 2010 00:48
Sample : 0011759-06
Misc : F3FZ6 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:05 2010

Vial: 27
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2585.D Vial: 27
Acq On : 13 Mar 2010 00:48 Operator: SP
Sample : 0011759-06 Inst : C-5973
Misc : F3FZ6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

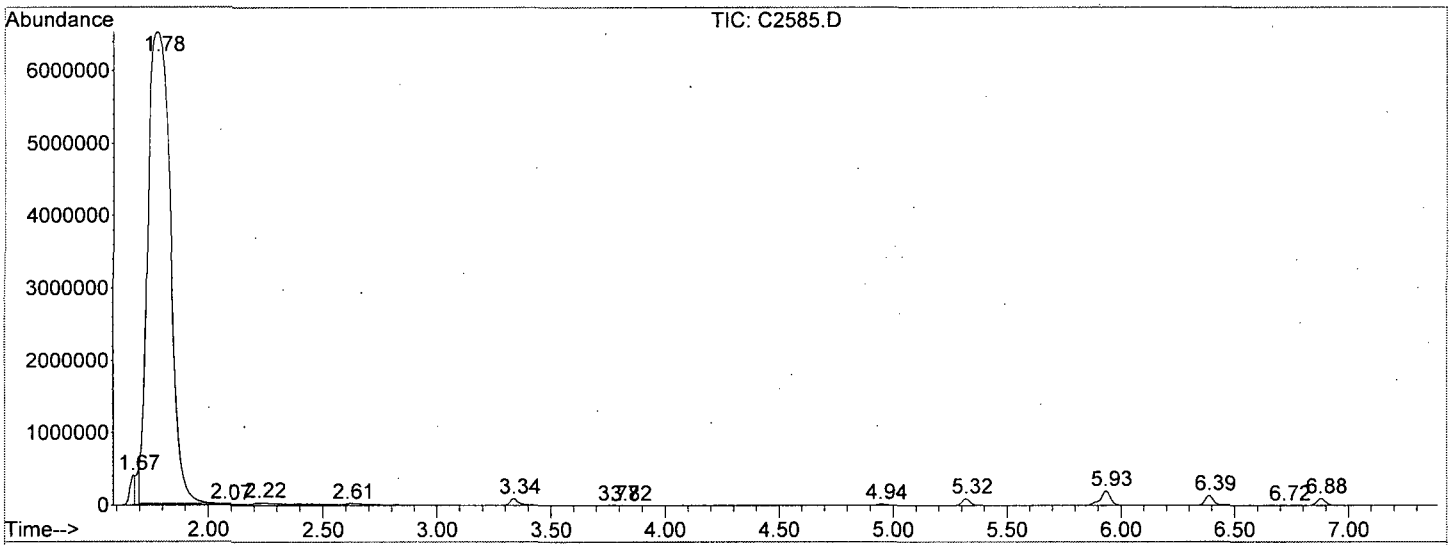
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.672	12	28	30	rBV	415340	570999	1.29%	1.166%
2	1.781	36	62	143	rVB	6510070	44253793	100.00%	90.387%
3	2.073	152	153	156	rBV2	2627	1217	0.00%	0.002%
4	2.224	192	200	203	rBV2	20409	30166	0.07%	0.062%
5	2.605	311	319	320	rBV5	16157	16475	0.04%	0.034%
6	3.337	533	547	571	rBV3	95083	248551	0.56%	0.508%
7	3.770	675	682	683	rBV3	5182	4451	0.01%	0.009%
8	3.825	698	699	705	rVB2	1813	1048	0.00%	0.002%
9	4.945	1035	1048	1049	rBV2	17094	17337	0.04%	0.035%
10	5.320	1148	1165	1180	rBV	96528	234299	0.53%	0.479%
11	5.933	1327	1356	1383	rBV3	197596	623170	1.41%	1.273%
12	6.389	1481	1498	1520	rBV2	137214	343634	0.78%	0.702%
13	6.716	1597	1600	1605	rVB3	2232	1614	0.00%	0.003%
14	6.876	1633	1650	1668	rBV3	98050	258106	0.58%	0.527%
15	7.852	1938	1954	1975	rBV2	93956	248863	0.56%	0.508%
16	7.964	1986	1989	1993	rVB3	1696	1437	0.00%	0.003%
17	8.288	2072	2090	2112	rBV	227535	595501	1.35%	1.216%
18	8.616	2175	2192	2193	rBV4	44814	59256	0.13%	0.121%
19	8.693	2214	2216	2222	rVB2	1703	1118	0.00%	0.002%
20	8.937	2283	2292	2295	rBV4	2958	4206	0.01%	0.009%
21	8.949	2295	2296	2311	rVB3	3543	3928	0.01%	0.008%
22	9.219	2364	2380	2400	rBV6	40836	130746	0.30%	0.267%
23	9.322	2410	2412	2416	rVB4	1462	1091	0.00%	0.002%
24	10.409	2732	2751	2779	rBV2	141295	392389	0.89%	0.801%
25	12.145	3280	3292	3306	rBV3	54446	106414	0.24%	0.217%
26	12.290	3327	3337	3351	rVB5	8700	15468	0.03%	0.032%
27	12.543	3410	3416	3419	rBV4	1876	1974	0.00%	0.004%
28	13.243	3622	3634	3650	rBV2	202888	349768	0.79%	0.714%
29	13.596	3730	3744	3758	rBV2	227961	394263	0.89%	0.805%
30	13.689	3766	3773	3782	rVB4	6952	8759	0.02%	0.018%
31	14.036	3872	3881	3890	rBV2	27433	37801	0.09%	0.077%
32	14.591	4049	4054	4061	rVB5	2347	2572	0.01%	0.005%

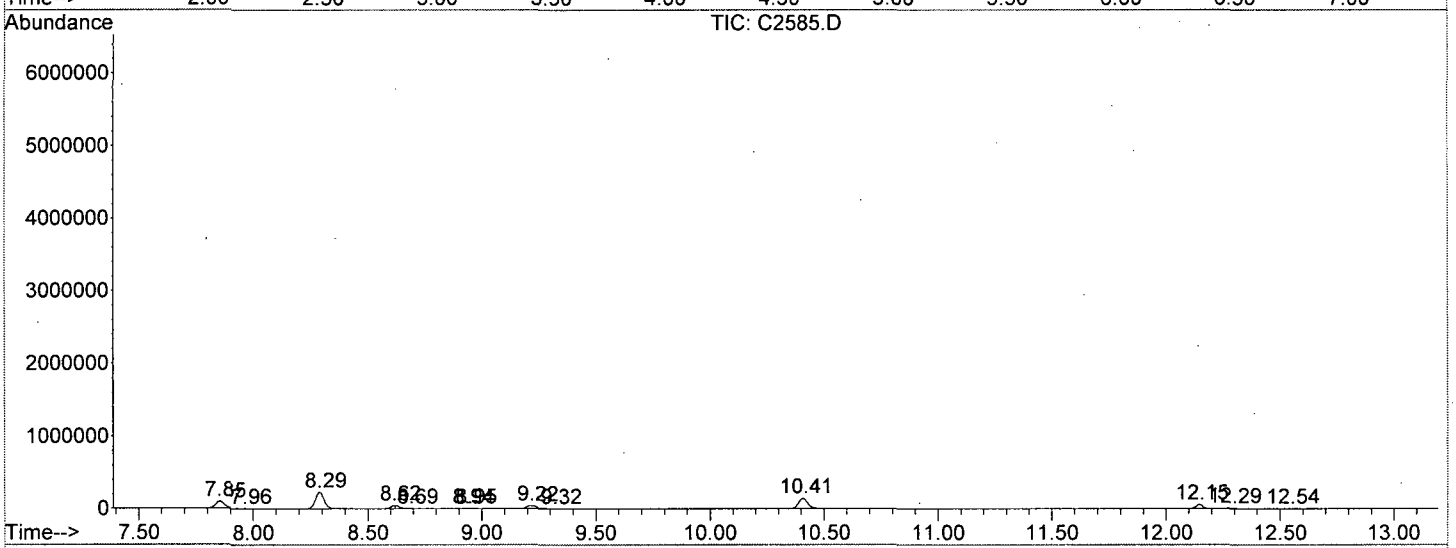
Sum of corrected areas: 48960414

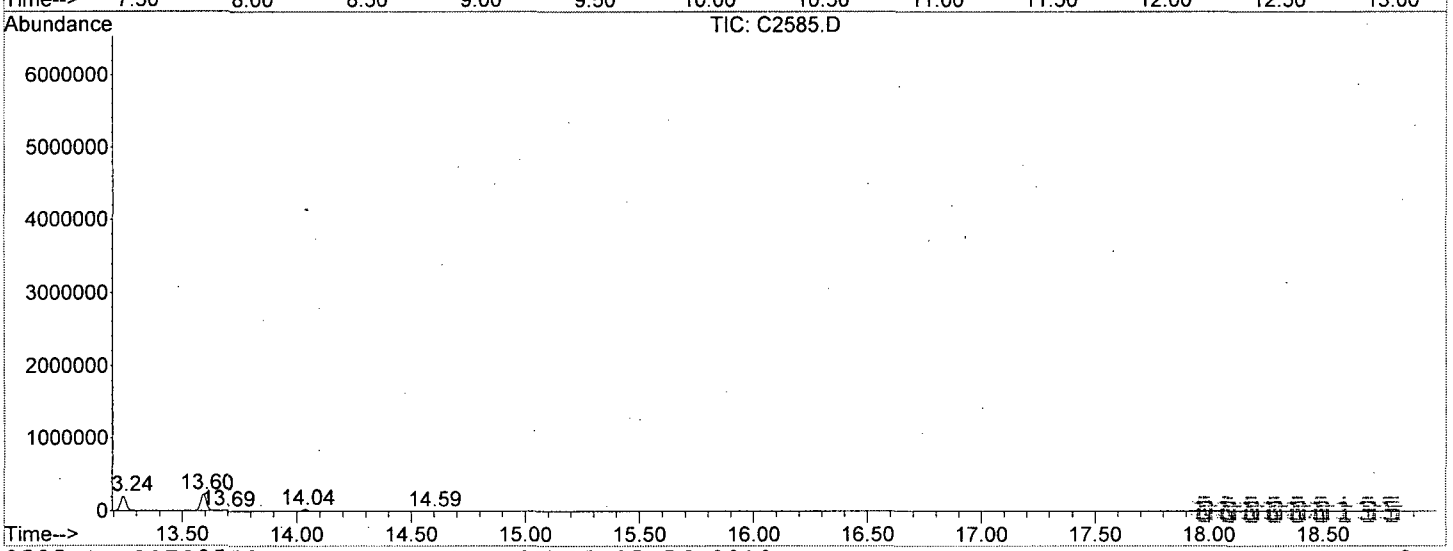
000000194

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2585.D Vial: 27
Acq On : 13 Mar 2010 00:48 Operator: SP
Sample : 0011759-06 Inst : C-5973
Misc : F3FZ6 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2585.D Vial: 27
Acq On : 13 Mar 2010 00:48 Operator: SP
Sample : 0011759-06 Inst : C-5973
Misc : F3FZ6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

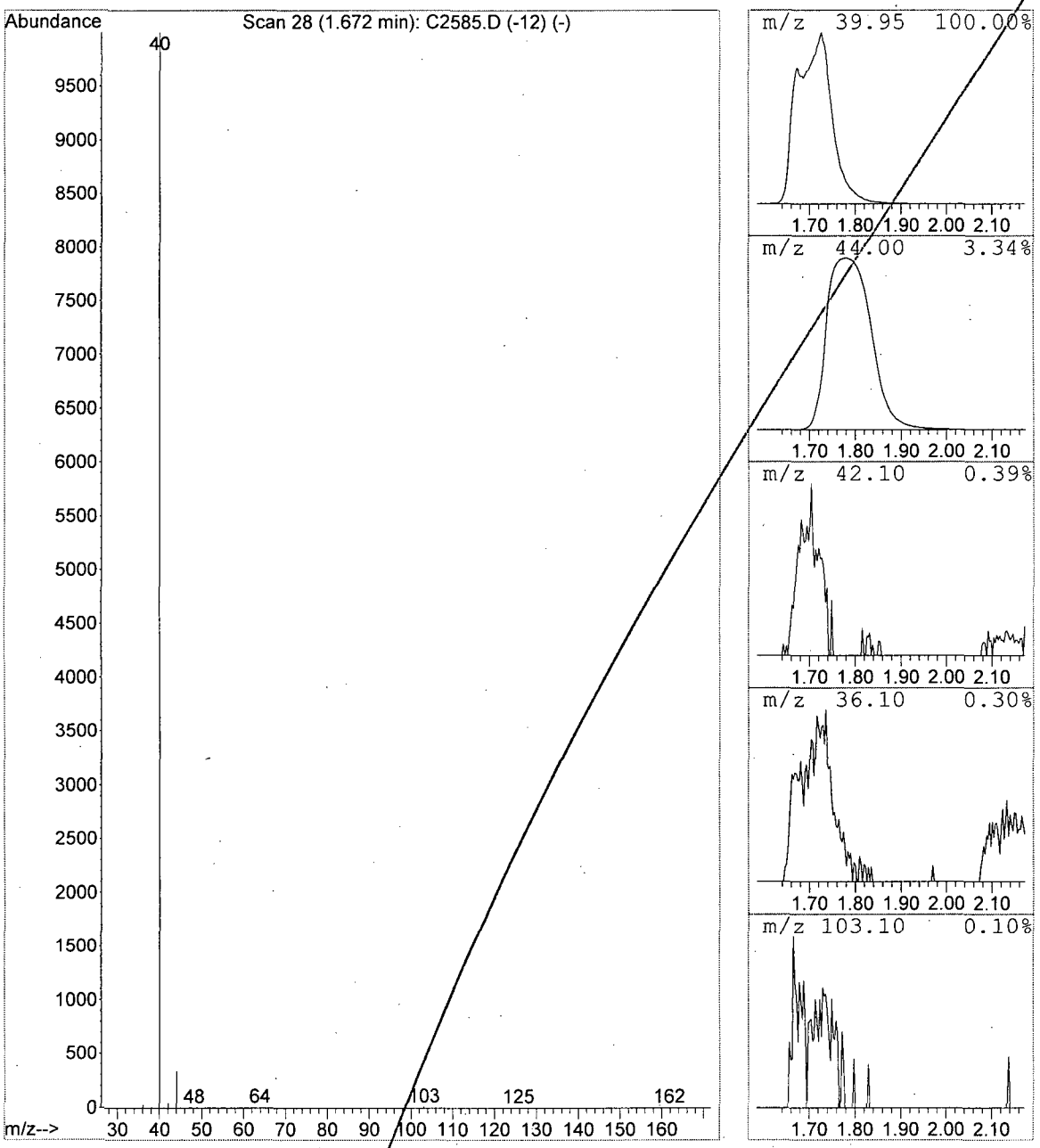
****

Peak Number 1 Unknown Concentration Rank 2

Co2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.67	8.31 ug/L	570999	1,4-Difluorobenzene	6.39

Hit# of 1	Tentative ID	MW	MolForm	CAS#	Qual
1	No Hits From C:\DATABASE\NIST02.L	0			0



000000136

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2585.D Vial: 27
Acq On : 13 Mar 2010 00:48 Operator: SP
Sample : 0011759-06 Inst : C-5973
Misc : F3FZ6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

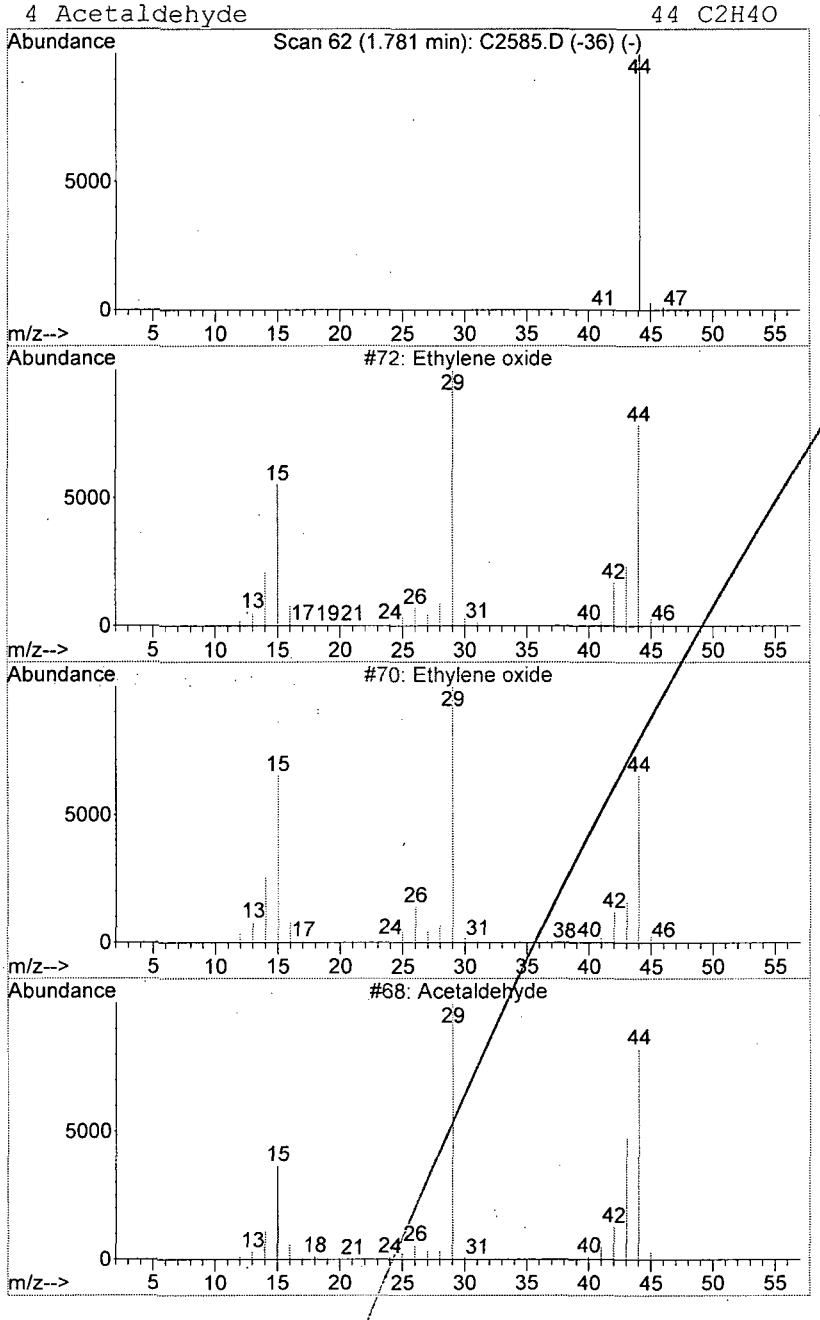
****

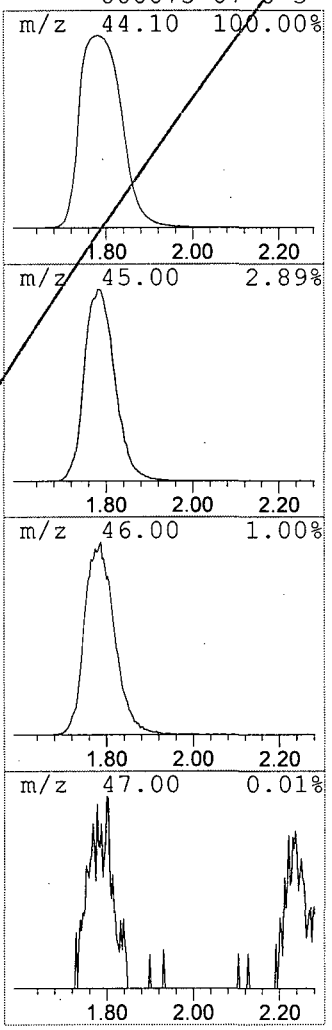
Peak Number 2 Ethylene oxide Concentration Rank 1

Do 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	643.91 ug/L	44253800	1,4-Difluorobenzene	6.39

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	4
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3





000000197

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2585.D Vial: 27
Acq On : 13 Mar 2010 00:48 Operator: SP
Sample : 0011759-06 Inst : C-5973
Misc : F3FZ6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

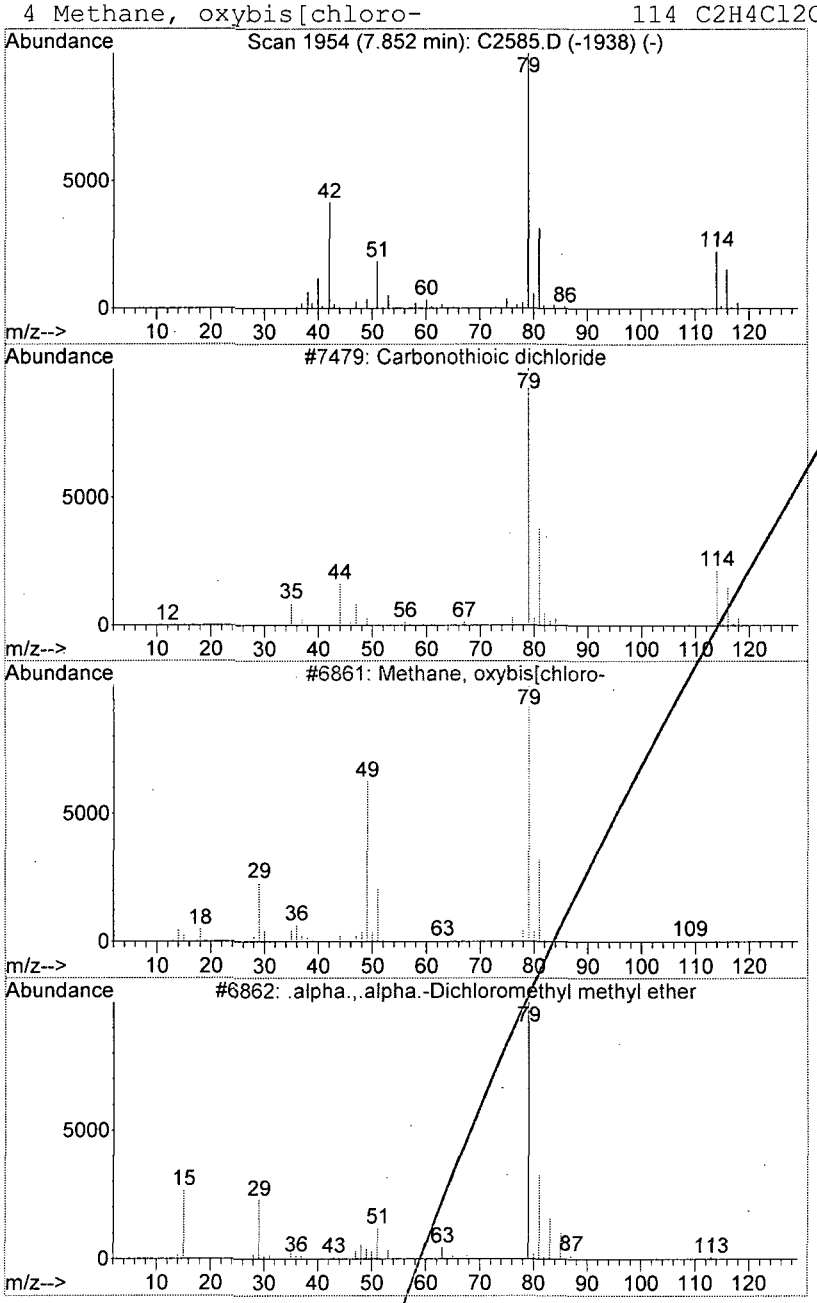
****

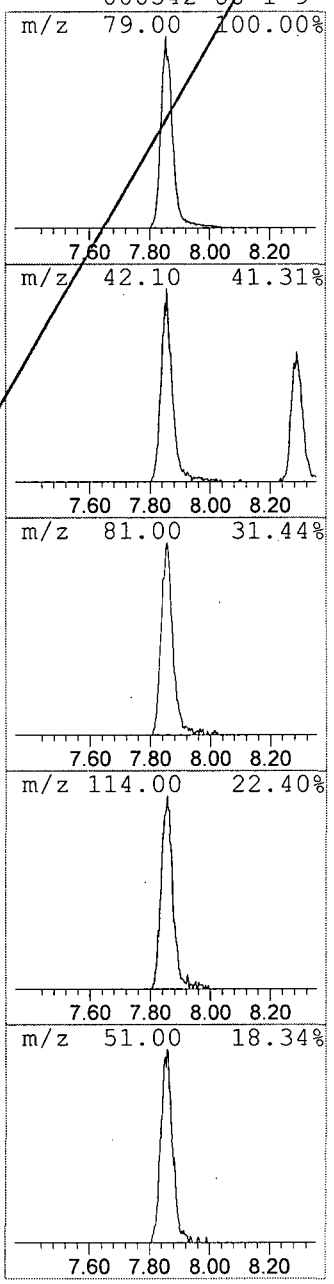
Peak Number 3 Carbonothioic dichloride Concentration Rank 3

One output

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.62 ug/L	248863	1,4-Difluorobenzene	6.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	50
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
3	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	9
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	9





000000138

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2585.D Vial: 27
Acq On : 13 Mar 2010 00:48 Operator: SP
Sample : 0011759-06 Inst : C-5973
Misc : F3FZ6 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

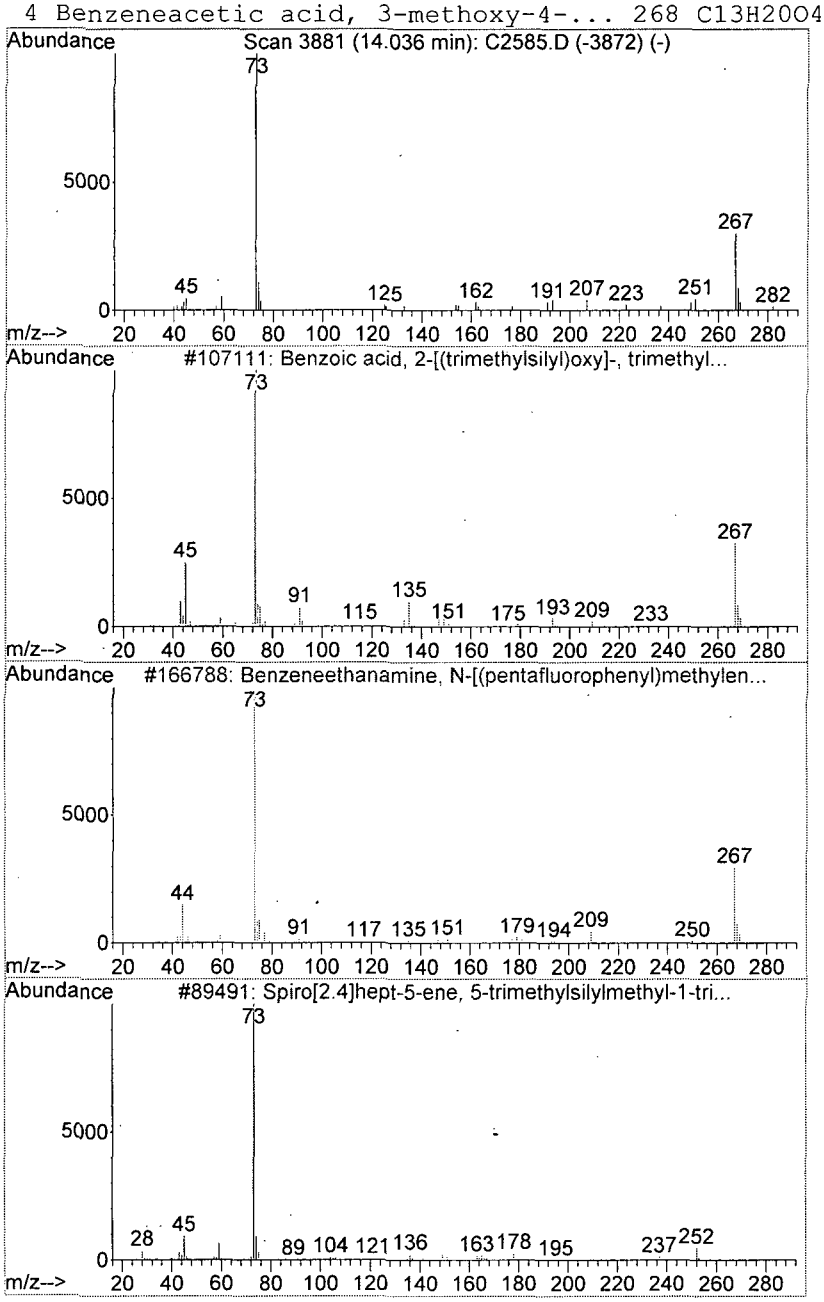
****

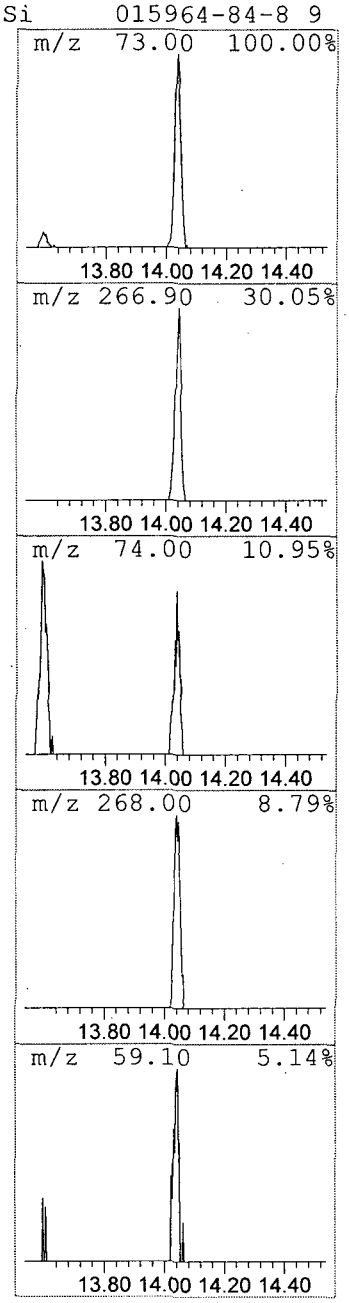
Peak Number 4 Benzoic acid, 2-[(trimethyl... Concentration Rank 4

Unknown

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.04	0.54 ug/L	37801	1,4-Dichlorobenzene-d4	13.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	45
2	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	36
3	Spiro[2.4]hept-5-ene, 5-trimethy...	252	C14H28Si2	1000153-96-9	12
4	Benzeneacetic acid, 3-methoxy-4-...	268	C13H20O4Si	015964-84-8	9





0000000199

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 13 Mar 2010 00:48
Data File: C:\MSDCHEM\1\DATA\C2585.D
Name: 0011759-06
Misc: F3FZ6 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
No Hits From C:\D...	1.67	8.3	ug/L	570999	1	6.39	343634	5.0
Ethylene oxide	1.78	643.9	ug/L	44253800	1	6.39	343634	5.0
Carbonothioic dic...	7.85	3.6	ug/L	248863	1	6.39	343634	5.0
Benzoic acid, 2-[...	14.04	0.5	ug/L	37801	3	13.24	349768	5.0

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date(s): 03/12/2010 03/12/2010

Heated Purge: (Y/N) N Calibration Time(s): 0916 1105

Purge Volume: 25.0 (mL)

GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

LAB FILE ID: _____ RRF0.5= C2557.D RRF1= C2556.D

RRF5= C2553.D RRF10= C2555.D RRF20= C2554.D

COMPOUND	RRF0.5	RRF1	RRF5	RRF10	RRF20	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.546	0.464	0.464	0.450	0.362	0.457	14.3
Chloromethane	1.188	0.848	0.749	0.691	0.596	0.814	28.0
Vinyl chloride	0.974	0.701	0.677	0.654	0.543	0.710	22.5
Bromomethane	0.723	0.552	0.428	0.409	0.335	0.489	31.1
Chloroethane	0.555	0.441	0.417	0.407	0.350	0.434	17.4
Trichlorofluoromethane	0.986	0.708	0.712	0.738	0.585	0.746	19.7
1,1-Dichloroethene	0.433	0.330	0.346	0.350	0.308	0.353	13.4
1,1,2-Trichloro-1,2,2-trifluoroethane	0.469	0.342	0.321	0.333	0.263	0.345	21.9
Acetone	0.087	0.064	0.068	0.049	0.060	0.066	21.3
Carbon disulfide	1.565	1.205	1.182	1.142	1.025	1.224	16.6
Methyl acetate	0.228	0.188	0.148	0.133	0.131	0.166	25.3
Methylene chloride	0.646	0.454	0.377	0.338	0.325	0.428	30.8
trans-1,2-Dichloroethene	0.499	0.392	0.370	0.360	0.323	0.389	17.1
Methyl tert-butyl ether	0.996	0.827	0.696	0.644	0.655	0.764	19.5
1,1-Dichloroethane	0.841	0.655	0.579	0.578	0.526	0.636	19.4
cis-1,2-Dichloroethene	0.517	0.411	0.378	0.364	0.344	0.403	17.0
2-Butanone	0.136	0.102	0.097	0.078	0.088	0.100	21.8
Bromochloromethane	0.251	0.190	0.158	0.150	0.146	0.179	24.3
Chloroform	0.770	0.622	0.547	0.536	0.502	0.596	18.0
1,1,1-Trichloroethane	0.651	0.521	0.513	0.522	0.461	0.534	13.2
Cyclohexane	0.848	0.619	0.662	0.705	0.585	0.684	15.0
Carbon tetrachloride	0.489	0.393	0.400	0.418	0.360	0.412	11.6
Benzene	2.062	1.631	1.588	1.589	1.461	1.666	13.8
1,2-Dichloroethane	0.479	0.399	0.341	0.318	0.314	0.370	18.8
Trichloroethene	0.502	0.395	0.388	0.399	0.349	0.407	13.9
Methylcyclohexane	0.946	0.703	0.715	0.745	0.626	0.747	16.0

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

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date(s): 03/12/2010 03/12/2010

Heated Purge: (Y/N) N Calibration Time(s): 0916 1105

Purge Volume: 25.0 (mL)

GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

LAB FILE ID: RRF0.5= C2557.D RRF1= C2556.D

RRF5= C2553.D RRF10= C2555.D RRF20= C2554.D

COMPOUND	RRF0.5	RRF1	RRF5	RRF10	RRF20	$\overline{RRF}$	% RSD
1,2-Dichloropropane	0.461	0.400	0.359	0.358	0.344	0.385	12.4
Bromodichloromethane	0.518	0.404	0.380	0.375	0.361	0.408	15.5
cis-1,3-Dichloropropene	0.654	0.532	0.530	0.513	0.503	0.547	11.2
4-Methyl-2-pentanone	0.340	0.266	0.226	0.203	0.202	0.247	23.4
Toluene	2.343	1.863	1.730	1.725	1.587	1.850	15.8
trans-1,3-Dichloropropene	0.551	0.434	0.423	0.404	0.410	0.444	13.7
1,1,2-Trichloroethane	0.383	0.280	0.248	0.228	0.226	0.273	23.9
Tetrachloroethene	0.519	0.395	0.379	0.387	0.336	0.403	17.0
2-Hexanone	0.246	0.199	0.157	0.140	0.145	0.177	25.2
Dibromochloromethane	0.340	0.269	0.254	0.242	0.242	0.269	15.3
1,2-Dibromoethane	0.355	0.269	0.248	0.224	0.222	0.264	20.7
Chlorobenzene	1.634	1.316	1.157	1.111	1.030	1.250	19.1
Ethylbenzene	2.581	2.065	1.924	1.906	1.724	2.040	16.0
o-Xylene	1.034	0.806	0.745	0.739	0.692	0.803	16.9
m,p-Xylene	1.080	0.847	0.781	0.772	0.702	0.836	17.4
Styrene	1.368	1.142	1.050	1.048	1.010	1.124	12.9
Bromoform	0.328	0.266	0.236	0.217	0.221	0.253	18.1
Isopropylbenzene	2.572	2.039	1.958	1.992	1.786	2.069	14.3
1,1,2,2-Tetrachloroethane	0.418	0.346	0.296	0.268	0.267	0.319	20.1
1,3-Dichlorobenzene	2.562	2.126	1.800	1.640	1.537	1.933	21.5
1,4-Dichlorobenzene	2.694	2.173	1.797	1.662	1.549	1.975	23.6
1,2-Dichlorobenzene	2.381	1.941	1.604	1.468	1.393	1.757	23.2
1,2-Dibromo-3-chloropropane	0.080	0.087	0.070	0.063	0.061	0.072	15.4
1,2,4-Trichlorobenzene	0.996	1.071	0.779	0.888	0.820	0.911	13.3
1,2,3-Trichlorobenzene	0.867	1.045	0.626	0.736	0.648	0.785	22.1

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date(s): 03/12/2010 03/12/2010

Heated Purge: (Y/N) N Calibration Time(s): 0916 1105

Purge Volume: 25.0 (mL)

GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

LAB FILE ID: RRF0.5= C2557.D RRF1= C2556.D

RRF5= C2553.D RRF10= C2555.D RRF20= C2554.D

COMPOUND	RRF0.5	RRF1	RRF5	RRF10	RRF20	$\overline{RRF}$	% RSD
Vinyl chloride-d3	0.614	0.642	0.585	0.522	0.503	0.573	10.3
Chloroethane-d5	0.515	0.526	0.481	0.450	0.442	0.483	7.8
1,1-Dichloroethene-d2	0.658	0.720	0.684	0.652	0.637	0.670	4.9
2-Butanone-d5	0.036	0.027	0.025	0.022	0.023	0.027	20.6
Chloroform-d	0.644	0.651	0.602	0.559	0.557	0.603	7.4
1,2-Dichloroethane-d4	0.327	0.328	0.301	0.267	0.266	0.298	10.4
Benzene-d6	1.500	1.552	1.567	1.477	1.474	1.514	2.9
1,2-Dichloropropane-d6	0.422	0.433	0.471	0.453	0.439	0.444	4.4
Toluene-d8	1.484	1.528	1.493	1.403	1.383	1.458	4.3
trans-1,3-Dichloropropene-d4	0.407	0.415	0.421	0.387	0.393	0.405	3.6
2-Hexanone-d5	0.031	0.024	0.024	0.021	0.022	0.024	16.9
1,1,2,2-Tetrachloroethane-d2	0.383	0.344	0.320	0.283	0.279	0.322	13.6
1,2-Dichlorobenzene-d4	1.230	1.164	1.038	0.919	0.898	1.050	14.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2553.D Vial: 37
Acq On : 12 Mar 2010 9:16 Operator: SP
Sample : 0C12001-CAL3 Inst : C-5973
Misc : VSTD00504 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 09:50:37 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Wed Sep 16 11:52:35 2009
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	209335	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	187949	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	103141	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.23	65	122499	6.5380 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 130.76%		
7) Chloroethane-d5	2.62	69	100712	6.7677 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 135.35%#		
10) 1,1-Dichloroethene-d2	3.35	63	143225	4.7827 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 95.65%		
20) 2-Butanone-d5	4.95	46	53343	25.1262 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 50.25%		
24) Chloroform-d	5.32	84	126064	5.7001 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 114.00%		
26) 1,2-Dichloroethane-d4	5.90	65	63089	5.4198 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 108.40%		
32) Benzene-d6	5.94	84	294463	5.6333 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 112.67%		
35) 1,2-Dichloropropane-d6	6.88	67	88601	5.7180 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 114.36%		
41) Toluene-d8	8.29	98	280555	5.7955 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 115.91%		
43) trans-1,3-Dichloropropene-	8.62	79	79165	5.1344 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 102.69%		
47) 2-Hexanone-d5	9.22	63	44542	23.3543 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 46.71%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	60074	5.8249 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 116.50%		
63) 1,2-Dichlorobenzene-d4	13.59	152	107089	5.8388 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 116.78%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.93	85	97040	4.6909 ug/L	93
3) Chloromethane	2.14	50	156792	5.7255 ug/L #	43
5) Vinyl Chloride	2.24	62	141621	6.8082 ug/L	98
6) Bromomethane	2.56	94	89596	9.0828 ug/L	95
8) Chloroethane	2.65	64	87241	6.0562 ug/L #	100
9) Trichlorofluoromethane	2.88	101	149104	6.6264 ug/L	99
11) 1,1-Dichloroethene	3.36	96	72480	5.8954 ug/L #	79
12) 1,1,2-Trichloro-1,2,2-trif	3.36	101	67105	5.5093 ug/L	91
13) Acetone	3.38	43	141610	35.3050 ug/L	93
14) Carbon Disulfide	3.59	76	247507	5.3874 ug/L	99
15) Methyl Acetate	3.69	43	31037	4.3462 ug/L	98
16) Methylene Chloride	3.79	84	78992	6.3172 ug/L #	83
17) trans-1,2-Dichloroethene	4.06	96	77363	5.7297 ug/L #	88
18) Methyl tert-Butyl Ether	4.05	73	145797	5.0664 ug/L	95
19) 1,1-Dichloroethane	4.45	63	121180	4.9734 ug/L	99
21) cis-1,2-Dichloroethene	5.03	96	79058	5.9122 ug/L	89
22) 2-Butanone	5.01	43	202848	38.3678 ug/L	91
23) Bromochloromethane	5.28	128	33113	6.0841 ug/L #	77

ORIGINAL COPY
Case: 39551 SDG: F3FYL
Episode: 001765 Int./Date: CL 3/15/10

000000284

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2553.D
Acq On : 12 Mar 2010 9:16
Sample : 0C12001-CAL3
Misc : VSTD00504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 09:50:37 2010

Vial: 37
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Wed Sep 16 11:52:35 2009
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.35	83	114561	5.4433 ug/L	97
27)	1,2-Dichloroethane	5.98	62	71330	4.9364 ug/L	95
29)	1,1,1-Trichloroethane	5.58	97	96504	4.6885 ug/L	97
30)	Cyclohexane	5.66	56	124410	4.2443 ug/L	90
31)	Carbon Tetrachloride	5.77	117	75265	4.4022 ug/L	100
33)	Benzene	5.98	78	298465	5.4086 ug/L	100
34)	Trichloroethene	6.73	95	72992	5.2657 ug/L	94
36)	Methylcyclohexane	6.99	83	134453	4.7419 ug/L	91
37)	1,2-Dichloropropane	6.99	63	67565	5.1133 ug/L	99
38)	Bromodichloromethane	7.32	83	71360	5.1021 ug/L	99
39)	cis-1,3-Dichloropropene	7.91	75	99624	5.4474 ug/L	97
40)	4-Methyl-2-Pentanone	8.10	43	424955	40.2402 ug/L	94
42)	Toluene	8.38	91	325216	5.4620 ug/L	99
44)	trans-1,3-Dichloropropene	8.67	75	79559	5.2403 ug/L	99
45)	1,1,2-Trichloroethane	8.92	97	46538	5.5976 ug/L	97
46)	Tetrachloroethene	9.17	164	71287	5.5900 ug/L	98
48)	2-Hexanone	9.28	43	295551	34.0274 ug/L	95
49)	Dibromochloromethane	9.51	129	47690	5.4235 ug/L	98
50)	1,2-Dibromoethane	9.69	107	46559	5.6125 ug/L	98
51)	Chlorobenzene	10.45	112	217378	5.6801 ug/L	95
52)	Ethylbenzene	10.63	91	361683	5.2972 ug/L	97
53)	m,p-Xylene	10.81	106	146828	5.4924 ug/L	94
54)	o-Xylene	11.37	106	140021	5.6063 ug/L	96
55)	Styrene	11.39	104	197277	7.4226 ug/L	92
56)	Isopropylbenzene	11.84	105	367973	5.2127 ug/L	97
58)	1,1,2,2-Tetrachloroethane	12.18	83	55619	5.3276 ug/L	99
60)	Bromoform	11.61	173	24317	4.8653 ug/L	99
61)	1,3-Dichlorobenzene	13.18	146	185673	5.6256 ug/L	98
62)	1,4-Dichlorobenzene	13.26	146	185315	5.5908 ug/L	99
64)	1,2-Dichlorobenzene	13.61	146	165429	5.6760 ug/L	99
65)	1,2-Dibromo-3-chloropropan	14.28	75	7177	4.4570 ug/L	87
66)	1,2,4-Trichlorobenzene	15.01	180	80339	5.1169 ug/L	98
67)	1,2,3-Trichlorobenzene	15.48	180	64612	4.9374 ug/L	99

000000205

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

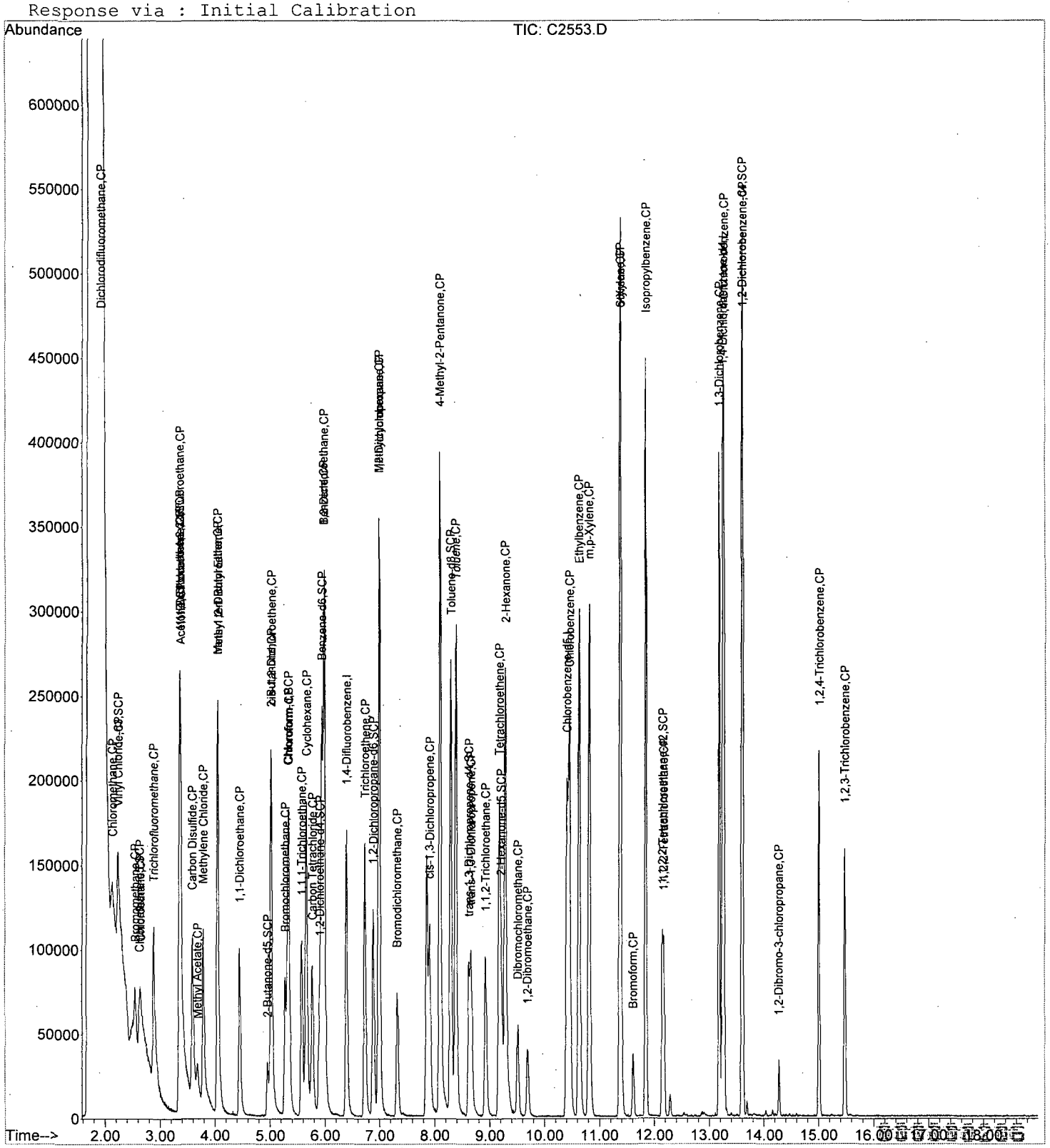
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2553.D
Acq On : 12 Mar 2010 9:16
Sample : 0C12001-CAL3
Misc : VSTD00504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 9:50 2010

Vial: 37
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\C2553.D
Acq On : 12 Mar 2010 9:16
Sample : 0C12001-CAL3
Misc : VSTD00504 25ML
MS Integration Params: RTEINT.P

Vial: 37
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

3/15/10

3/15/10

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Difluorobenzene	1.00000	1.00000	0.00	100	0.00
2	CP	Dichlorodifluoromethane	0.45710	0.46356	1.41	100	0.00
3	CP	Chloromethane	0.81431	0.74900	-8.02	100	0.00
4	SCP	Vinyl Chloride-d3	0.57335	0.58518	2.06	100	0.00
5	CP	Vinyl Chloride	0.70975	0.67653	-4.68	100	0.00
6	CP	Bromomethane	0.48931	0.42800	-12.53	100	0.00
7	SCP	Chloroethane-d5	0.48278	0.48110	-0.35	100	0.00
8	CP	Chloroethane	0.43396	0.41675	-3.97	100	0.00
9	CP	Trichlorofluoromethane	0.74567	0.71227	-4.48	100	0.00
10	SCP	1,1-Dichloroethene-d2	0.67013	0.68419	2.10	100	0.00
11	CP	1,1-Dichloroethene	0.35344	0.34624	-2.04	100	0.00
12	CP	1,1,2-Trichloro-1,2,2-trifl	0.34535	0.32056	-7.18	100	0.00
13	CP	Acetone	0.06551	0.06765	3.26	100	0.00
14	CP	Carbon Disulfide	1.22396	1.18235	-3.40	100	0.00
15	CP	Methyl Acetate	0.16572	0.14826	-10.53	100	0.00
16	CP	Methylene Chloride	0.42816	0.37735	-11.87	100	0.00
17	CP	trans-1,2-Dichloroethene	0.38876	0.36957	-4.94	100	0.00
18	CP	Methyl tert-Butyl Ether	0.76369	0.69648	-8.80	100	0.00
19	CP	1,1-Dichloroethane	0.63577	0.57888	-8.95	100	0.00
20	SCP	2-Butanone-d5	0.02683	0.02548	-5.01	100	0.00
21	CP	cis-1,2-Dichloroethene	0.40289	0.37766	-6.26	100	0.00
22	CP	2-Butanone	0.10020	0.09690	-3.29	100	0.00
23	CP	Bromochloromethane	0.17897	0.15818	-11.61	100	0.00
24	SCP	Chloroform-d	0.60279	0.60221	-0.10	100	0.00
25	CP	Chloroform	0.59553	0.54726	-8.10	100	0.00
26	SCP	1,2-Dichloroethane-d4	0.29778	0.30138	1.21	100	0.00
27	CP	1,2-Dichloroethane	0.36992	0.34075	-7.89	100	0.00
28	I	Chlorobenzene-d5	1.00000	1.00000	0.00	100	0.00
29	CP	1,1,1-Trichloroethane	0.53385	0.51346	-3.82	100	0.00
30	CP	Cyclohexane	0.68367	0.66193	-3.18	100	0.00
31	CP	Carbon Tetrachloride	0.41228	0.40045	-2.87	100	0.00
32	SCP	Benzene-d6	1.51389	1.56672	3.49	100	0.00
33	CP	Benzene	1.66620	1.58801	-4.69	100	0.00
34	CP	Trichloroethene	0.40664	0.38836	-4.49	100	0.00
35	SCP	1,2-Dichloropropane-d6	0.44364	0.47141	6.26	100	0.00
36	CP	Methylcyclohexane	0.74709	0.71537	-4.25	100	0.00
37	CP	1,2-Dichloropropane	0.38483	0.35949	-6.59	100	0.00
38	CP	Bromodichloromethane	0.40766	0.37968	-6.86	100	0.00
39	CP	cis-1,3-Dichloropropene	0.54654	0.53006	-3.02	100	0.00
40	CP	4-Methyl-2-Pentanone	0.24736	0.22610	-8.60	100	0.00
41	SCP	Toluene-d8	1.45808	1.49272	2.38	100	0.00
42	CP	Toluene	1.84968	1.73034	-6.45	100	0.00
43	SCP	trans-1,3-Dichloropropene-d	0.40473	0.42120	4.07	100	0.00
44	CP	trans-1,3-Dichloropropene	0.44428	0.42330	-4.72	100	0.00
45	CP	1,1,2-Trichloroethane	0.27275	0.24761	-9.22	100	0.00
46	CP	Tetrachloroethene	0.40319	0.37929	-5.93	100	0.00
47	SCP	2-Hexanone-d5	0.02420	0.02370	-2.08	100	0.00
48	CP	2-Hexanone	0.17739	0.15725	-11.36	100	0.00
49	CP	Dibromochloromethane	0.26948	0.25374	-5.84	100	0.00
50	CP	1,2-Dibromoethane	0.26351	0.24772	-5.99	100	0.00
51	CP	Chlorobenzene	1.24952	1.15658	-7.44	100	0.00
52	CP	Ethylbenzene	2.04006	1.92437	-5.67	100	0.00
53	CP	m,p-Xylene	0.83623	0.78121	-6.58	100	0.00

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54	CP	o-Xylene	0.80335	0.74499	-7.26	100	0.00
55	CP	Styrene	1.12365	1.04963	-6.59	100	0.00
56	CP	Isopropylbenzene	2.06944	1.95783	-5.39	100	0.00
57	SCP	1,1,2,2-Tetrachloroethane-d	0.32172	0.31963	-0.65	100	0.00
58	CP	1,1,2,2-Tetrachloroethane	0.31912	0.29593	-7.27	100	0.00
59	I	1,4-Dichlorobenzene-d4	1.00000	1.00000	0.00	100	0.00
60	CP	Bromoform	0.25348	0.23576	-6.99	100	0.00
61	CP	1,3-Dichlorobenzene	1.93308	1.80019	-6.87	100	0.00
62	CP	1,4-Dichlorobenzene	1.97513	1.79672	-9.03	100	0.00
63	SCP	1,2-Dichlorobenzene-d4	1.04997	1.03828	-1.11	100	0.00
64	CP	1,2-Dichlorobenzene	1.75722	1.60391	-8.72	100	0.00
65	CP	1,2-Dibromo-3-chloropropane	0.07210	0.06958	-3.49	100	0.00
66	CP	1,2,4-Trichlorobenzene	0.91069	0.77892	-14.47	100	0.00
67	CP	1,2,3-Trichlorobenzene	0.78458	0.62644	-20.16	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C2553.D SOTC2553.M Mon Mar 15 14:44:49 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2554.D
Acq On : 12 Mar 2010 9:46
Sample : 0C12001-CAL5
Misc : VSTD02004 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 10:32:54 2010

Vial: 38
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 09:50:58 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	218988	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	193415	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	115937	5.0000 ug/L	0.00
System Monitoring Compounds					
4) Vinyl Chloride-d3	2.23	65	441022	17.2076 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 344.15%#		
7) Chloroethane-d5	2.59	69	387075	18.3698 ug/L	-0.03
Spiked Amount 5.0000	Range 71 - 131		Recovery = 367.40%#		
10) 1,1-Dichloroethene-d2	3.34	63	557794	18.6143 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 372.29%#		
20) 2-Butanone-d5	4.95	46	201519	180.5636 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 361.13%#		
24) Chloroform-d	5.32	84	487959	18.5005 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 370.01%#		
26) 1,2-Dichloroethane-d4	5.89	65	232651	17.6256 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 352.51%#		
32) Benzene-d6	5.94	84	1140107	18.8120 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 376.24%#		
35) 1,2-Dichloropropane-d6	6.88	67	339822	18.6351 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 372.70%#		
41) Toluene-d8	8.29	98	1069817	18.5273 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 370.55%#		
43) trans-1,3-Dichloropropene-	8.62	79	304031	18.6597 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 373.19%#		
47) 2-Hexanone-d5	9.21	63	167593	182.8126 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 365.63%#		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	215724	17.4474 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 348.95%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	416348	17.2938 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 345.88%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.93	85	317109	15.6189 ug/L	99
3) Chloromethane	2.19	50	521887	15.9090 ug/L	98
5) Vinyl Chloride	2.24	62	475507	16.0480 ug/L	99
6) Bromomethane	2.53	94	293304	15.6466 ug/L	97
8) Chloroethane	2.62	64	306514	16.7927 ug/L #	100
9) Trichlorofluoromethane	2.87	101	512086	16.4152 ug/L	100
11) 1,1-Dichloroethene	3.36	96	270085	17.8104 ug/L #	82
12) 1,1,2-Trichloro-1,2,2-trif	3.35	101	230098	16.3889 ug/L	96
13) Acetone	3.38	43	521604	176.0510 ug/L	92
14) Carbon Disulfide	3.58	76	897930	17.3399 ug/L	100
15) Methyl Acetate	3.68	43	114735	17.6688 ug/L	92
16) Methylene Chloride	3.78	84	284884	17.2376 ug/L #	87
17) trans-1,2-Dichloroethene	4.05	96	282765	17.4696 ug/L	90
18) Methyl tert-Butyl Ether	4.04	73	573920	18.8146 ug/L	94
19) 1,1-Dichloroethane	4.44	63	460878	18.1780 ug/L	99
21) cis-1,2-Dichloroethene	5.02	96	301139	18.2059 ug/L	90
22) 2-Butanone	5.01	43	771724	181.8372 ug/L	90
23) Bromochloromethane	5.27	128	128029	18.4800 ug/L #	77

ORIGINAL COPY
Case: 39551 SDG: F3EY1
Episode: 001765 Int./Date: 3/15/10

000000205

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2554.D
Acq On : 12 Mar 2010 9:46
Sample : 0C12001-CAL5
Misc : VSTD02004 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 10:32:54 2010

Vial: 38
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 09:50:58 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.34	83	439853	18.3511 ug/L	98
27)	1,2-Dichloroethane	5.98	62	274717	18.4079 ug/L	95
29)	1,1,1-Trichloroethane	5.57	97	356464	17.9469 ug/L	98
30)	Cyclohexane	5.66	56	452464	17.6705 ug/L	89
31)	Carbon Tetrachloride	5.76	117	278687	17.9905 ug/L	100
33)	Benzene	5.98	78	1130084	18.3966 ug/L	100
34)	Trichloroethene	6.73	95	270330	17.9945 ug/L	97
36)	Methylcyclohexane	6.99	83	484619	17.5126 ug/L	91
37)	1,2-Dichloropropane	6.99	63	266490	19.1637 ug/L	99
38)	Bromodichloromethane	7.32	83	279662	19.0414 ug/L	99
39)	cis-1,3-Dichloropropene	7.91	75	388903	18.9669 ug/L	96
40)	4-Methyl-2-Pentanone	8.10	43	1564397	178.8644 ug/L	94
42)	Toluene	8.38	91	1227685	18.3415 ug/L	100
44)	trans-1,3-Dichloropropene	8.66	75	316858	19.3506 ug/L	100
45)	1,1,2-Trichloroethane	8.92	97	174916	18.2617 ug/L	99
46)	Tetrachloroethene	9.18	164	259846	17.7103 ug/L	98
48)	2-Hexanone	9.28	43	1118917	183.9439 ug/L	95
49)	Dibromochloromethane	9.51	129	186911	19.0427 ug/L	99
50)	1,2-Dibromoethane	9.69	107	171394	17.8859 ug/L	98
51)	Chlorobenzene	10.45	112	796755	17.8086 ug/L	96
52)	Ethylbenzene	10.63	91	1333467	17.9132 ug/L	98
53)	m,p-Xylene	10.81	106	542759	17.9605 ug/L	94
54)	o-Xylene	11.37	106	535349	18.5765 ug/L	96
55)	Styrene	11.39	104	781662	19.2514 ug/L	92
56)	Isopropylbenzene	11.84	105	1382102	18.2492 ug/L	99
58)	1,1,2,2-Tetrachloroethane	12.18	83	206715	18.0580 ug/L	100
60)	Bromoform	11.61	173	102350	18.7222 ug/L	98
61)	1,3-Dichlorobenzene	13.18	146	712598	17.0716 ug/L	99
62)	1,4-Dichlorobenzene	13.26	146	718504	17.2464 ug/L	99
64)	1,2-Dichlorobenzene	13.61	146	645816	17.3651 ug/L	99
65)	1,2-Dibromo-3-chloropropan	14.28	75	28307	17.5441 ug/L	84
66)	1,2,4-Trichlorobenzene	15.00	180	380376	21.0604 ug/L	99
67)	1,2,3-Trichlorobenzene	15.48	180	300575	20.6928 ug/L	100

000000210

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

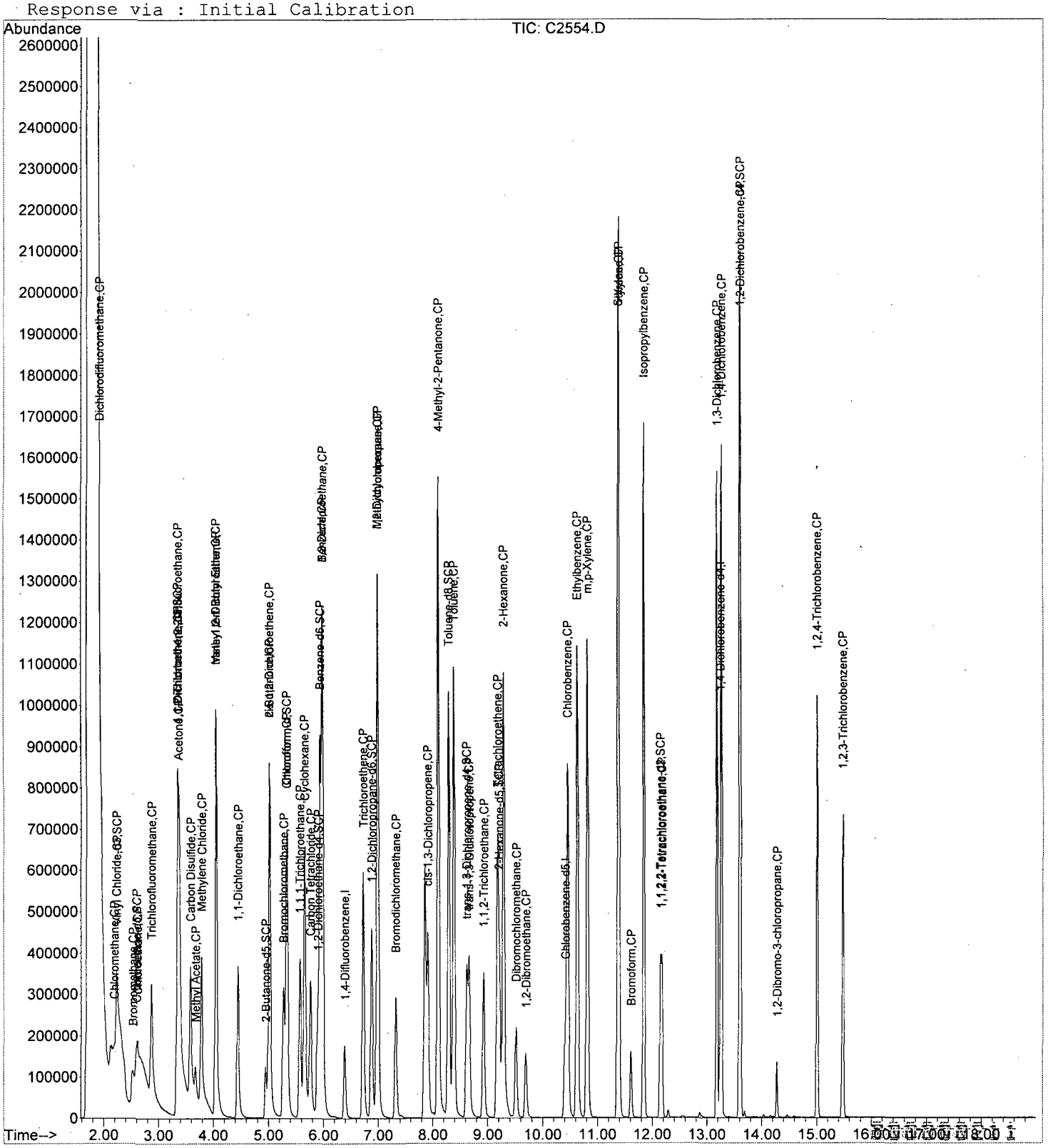
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2554.D
Acq On : 12 Mar 2010 9:46
Sample : 0C12001-CAL5
Misc : VSTD02004 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 10:32 2010

Vial: 38
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2555.D
Acq On : 12 Mar 2010 10:12
Sample : 0C12001-CAL4
Misc : VSTD01004 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 10:33:30 2010

Vial: 39
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 10:33:12 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	208940	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	184809	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	111733	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.23	65	218150	9.5905 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 191.81%#		
7) Chloroethane-d5	2.62	69	188132	9.7553 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 195.11%#		
10) 1,1-Dichloroethene-d2	3.35	63	272379	9.8686 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 197.37%#		
20) 2-Butanone-d5	4.95	46	92692	91.4930 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 182.99%#		
24) Chloroform-d	5.32	84	233666	9.6469 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 192.94%#		
26) 1,2-Dichloroethane-d4	5.90	65	111399	9.4036 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 188.07%#		
32) Benzene-d6	5.94	84	545833	9.7143 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 194.29%#		
35) 1,2-Dichloropropane-d6	6.88	67	167559	9.9562 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 199.12%#		
41) Toluene-d8	8.29	98	518508	9.7570 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 195.14%#		
43) trans-1,3-Dichloropropene-	8.62	79	143086	9.5094 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 190.19%#		
47) 2-Hexanone-d5	9.21	63	76589	91.3603 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 182.72%#		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	104549	9.4527 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 189.05%#		
63) 1,2-Dichlorobenzene-d4	13.59	152	205362	9.4933 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 189.87%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.94	85	188053	10.9018 ug/L	99
3) Chloromethane	2.13	50	288859	10.2804 ug/L	99
5) Vinyl Chloride	2.24	62	273469	10.7337 ug/L	100
6) Bromomethane	2.55	94	170800	10.7160 ug/L	97
8) Chloroethane	2.64	64	170105	10.6190 ug/L #	100
9) Trichlorofluoromethane	2.89	101	308232	11.3751 ug/L	99
11) 1,1-Dichloroethene	3.36	96	146169	10.6875 ug/L #	74
12) 1,1,2-Trichloro-1,2,2-trif	3.36	101	139053	11.4106 ug/L	89
13) Acetone	3.38	43	205275	77.2406 ug/L	93
14) Carbon Disulfide	3.59	76	477206	10.3465 ug/L	100
15) Methyl Acetate	3.68	43	55439	9.5018 ug/L	90
16) Methylene Chloride	3.79	84	141240	9.6215 ug/L #	83
17) trans-1,2-Dichloroethene	4.06	96	150498	10.4032 ug/L #	88
18) Methyl tert-Butyl Ether	4.05	73	268944	9.5229 ug/L	94
19) 1,1-Dichloroethane	4.45	63	241387	10.4549 ug/L	99
21) cis-1,2-Dichloroethene	5.03	96	152309	10.1041 ug/L	89
22) 2-Butanone	5.01	43	326800	84.5441 ug/L	91
23) Bromochloromethane	5.28	128	62764	9.8702 ug/L #	77

ORIGINAL COPY
Case: 39551 SDG: F3EY1
Episode: 001/765 Int./Date: 3/15/10

000000212

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2555.D
Acq On : 12 Mar 2010 10:12
Sample : 0C12001-CAL4
Misc : VSTD01004 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 10:33:30 2010

Vial: 39
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 10:33:12 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.35	83	223811	10.2074 ug/L	97
27)	1,2-Dichloroethane	5.98	62	132809	9.7137 ug/L	96
29)	1,1,1-Trichloroethane	5.57	97	193006	10.7200 ug/L	98
30)	Cyclohexane	5.66	56	260586	11.3094 ug/L	92
31)	Carbon Tetrachloride	5.77	117	154431	10.9853 ug/L	98
33)	Benzene	5.98	78	587399	10.4254 ug/L	100
34)	Trichloroethene	6.73	95	147498	10.8178 ug/L	97
36)	Methylcyclohexane	6.99	83	275184	11.0974 ug/L	90
37)	1,2-Dichloropropane	6.99	63	132455	10.1815 ug/L	99
38)	Bromodichloromethane	7.32	83	138761	10.1306 ug/L	99
39)	cis-1,3-Dichloropropene	7.91	75	189789	9.9439 ug/L	97
40)	4-Methyl-2-Pentanone	8.10	43	749123	94.6397 ug/L	94
42)	Toluene	8.38	91	637707	10.4022 ug/L	99
44)	trans-1,3-Dichloropropene	8.66	75	149300	9.6999 ug/L	100
45)	1,1,2-Trichloroethane	8.93	97	84198	9.6178 ug/L	99
46)	Tetrachloroethene	9.18	164	142947	10.8156 ug/L	98
48)	2-Hexanone	9.28	43	518476	92.9342 ug/L	96
49)	Dibromochloromethane	9.51	129	89607	9.7886 ug/L	98
50)	1,2-Dibromoethane	9.69	107	82793	9.5468 ug/L	99
51)	Chlorobenzene	10.45	112	410480	10.1586 ug/L	96
52)	Ethylbenzene	10.63	91	704600	10.4513 ug/L	98
53)	m,p-Xylene	10.81	106	285222	10.4085 ug/L	94
54)	o-Xylene	11.37	106	273247	10.2893 ug/L	94
55)	Styrene	11.39	104	387373	10.1752 ug/L	92
56)	Isopropylbenzene	11.84	105	736273	10.6401 ug/L	98
58)	1,1,2,2-Tetrachloroethane	12.18	83	99189	9.5311 ug/L	100
60)	Bromoform	11.61	173	48424	9.4945 ug/L	96
61)	1,3-Dichlorobenzene	13.18	146	366551	9.8316 ug/L	99
62)	1,4-Dichlorobenzene	13.27	146	371336	9.9324 ug/L	99
64)	1,2-Dichlorobenzene	13.61	146	328119	9.8002 ug/L	99
65)	1,2-Dibromo-3-chloropropan	14.28	75	14086	9.6512 ug/L	88
66)	1,2,4-Trichlorobenzene	15.00	180	198398	11.1037 ug/L	98
67)	1,2,3-Trichlorobenzene	15.48	180	164443	11.5469 ug/L	98

000000213

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

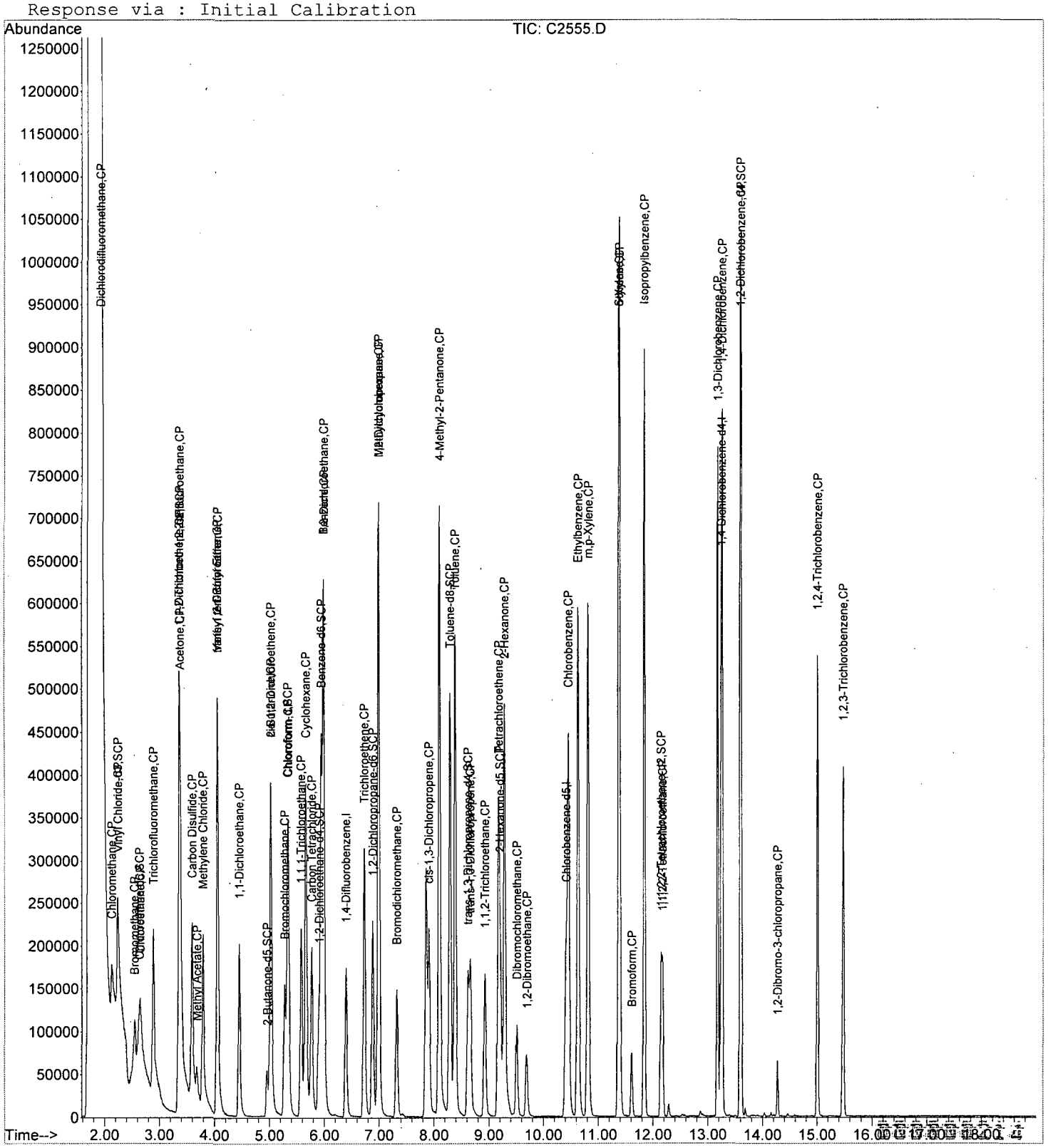
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2555.D
Acq On : 12 Mar 2010 10:12
Sample : 0C12001-CAL4
Misc : VSTD01004 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 10:33 2010

Vial: 39
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2556.D
Acq On : 12 Mar 2010 10:39
Sample : 0C12001-CAL2
Misc : VSTD00104 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:06:27 2010

Vial: 40
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 10:33:51 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10
3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	198192	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	189152	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	100006	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.24	65	25431	1.1950 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery =	23.90%#	
7) Chloroethane-d5	2.63	69	20853	1.1493 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery =	22.99%#	
10) 1,1-Dichloroethene-d2	3.35	63	28545	1.0951 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery =	21.90%#	
20) 2-Butanone-d5	4.97	46	10891	11.6639 ug/L	0.02
Spiked Amount 50.0000	Range 49 - 155		Recovery =	23.33%#	
24) Chloroform-d	5.32	84	25822	1.1373 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery =	22.75%#	
26) 1,2-Dichloroethane-d4	5.90	65	13002	1.1805 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery =	23.61%#	
32) Benzene-d6	5.94	84	58726	1.0310 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery =	20.62%#	
35) 1,2-Dichloropropane-d6	6.88	67	16368	0.9516 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery =	19.03%#	
41) Toluene-d8	8.30	98	57822	1.0718 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery =	21.44%#	
43) trans-1,3-Dichloropropene-	8.63	79	15718	1.0376 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery =	20.75%#	
47) 2-Hexanone-d5	9.22	63	8996	10.7955 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery =	21.59%#	
57) 1,1,2,2-Tetrachloroethane-	12.15	84	13023	1.1718 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery =	23.44%#	
63) 1,2-Dichlorobenzene-d4	13.59	152	23289	1.2235 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery =	24.47%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.94	85	18373	1.0901 ug/L	76
3) Chloromethane	2.14	50	33605	1.2492 ug/L #	43
5) Vinyl Chloride	2.24	62	27804	1.1230 ug/L	94
6) Bromomethane	2.57	94	21893	1.4143 ug/L	89
8) Chloroethane	2.66	64	17486	1.1275 ug/L #	100
9) Trichlorofluoromethane	2.89	101	28064	1.0440 ug/L	98
11) 1,1-Dichloroethene	3.37	96	13067	0.9847 ug/L #	88
12) 1,1,2-Trichloro-1,2,2-trif	3.37	101	13564	1.1207 ug/L #	73
13) Acetone	3.38	43	25380	10.8943 ug/L	97
14) Carbon Disulfide	3.59	76	47771	1.0794 ug/L	97
15) Methyl Acetate	3.68	43	7464	1.3714 ug/L	100
16) Methylene Chloride	3.79	84	17996	1.3089 ug/L #	85
17) trans-1,2-Dichloroethene	4.06	96	15542	1.1176 ug/L	89
18) Methyl tert-Butyl Ether	4.05	73	32769	1.2430 ug/L	94
19) 1,1-Dichloroethane	4.45	63	25980	1.1685 ug/L	98
21) cis-1,2-Dichloroethene	5.03	96	16300	1.1360 ug/L	91
22) 2-Butanone	5.02	43	40453	11.6321 ug/L	94
23) Bromochloromethane	5.28	128	7520	1.2521 ug/L #	75

ORIGINAL COPY
Case: 39551 SDG: F3EYL
Episode: 0011765 Int./Date: 3/15/10

0000000215

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2556.D
Acq On : 12 Mar 2010 10:39
Sample : 0C12001-CAL2
Misc : VSTD00104 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:06:27 2010

Vial: 40
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 10:33:51 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.34	83	24673	1.1781 ug/L	100
27)	1,2-Dichloroethane	5.99	62	15800	1.2300 ug/L	96
29)	1,1,1-Trichloroethane	5.58	97	19727	1.0454 ug/L	96
30)	Cyclohexane	5.66	56	23407	0.9510 ug/L	89
31)	Carbon Tetrachloride	5.77	117	14883	1.0015 ug/L	96
33)	Benzene	5.99	78	61707	1.0551 ug/L	100
34)	Trichloroethene	6.73	95	14929	1.0414 ug/L	93
36)	Methylcyclohexane	6.99	83	26584	1.0105 ug/L	89
37)	1,2-Dichloropropane	7.00	63	15150	1.1310 ug/L	100
38)	Bromodichloromethane	7.33	83	15289	1.0859 ug/L	96
39)	cis-1,3-Dichloropropene	7.91	75	20134	1.0326 ug/L	98
40)	4-Methyl-2-Pentanone	8.10	43	100610	12.6446 ug/L	96
42)	Toluene	8.38	91	70465	1.1082 ug/L	99
44)	trans-1,3-Dichloropropene	8.66	75	16400	1.0515 ug/L	99
45)	1,1,2-Trichloroethane	8.93	97	10581	1.1961 ug/L	96
46)	Tetrachloroethene	9.17	164	14961	1.0767 ug/L	99
48)	2-Hexanone	9.28	43	75355	13.5152 ug/L	98
49)	Dibromochloromethane	9.51	129	10183	1.0946 ug/L	99
50)	1,2-Dibromoethane	9.70	107	10193	1.1660 ug/L	93
51)	Chlorobenzene	10.45	112	49796	1.1977 ug/L	97
52)	Ethylbenzene	10.63	91	78129	1.1155 ug/L	96
53)	m,p-Xylene	10.81	106	32041	1.1271 ug/L	93
54)	o-Xylene	11.37	106	30494	1.1112 ug/L	95
55)	Styrene	11.39	104	43211	1.1025 ug/L	91
56)	Isopropylbenzene	11.84	105	77140	1.0664 ug/L	98
58)	1,1,2,2-Tetrachloroethane	12.17	83	13078	1.2473 ug/L	93
60)	Bromoform	11.62	173	5327	1.1869 ug/L #	93
61)	1,3-Dichlorobenzene	13.18	146	42532	1.2818 ug/L	97
62)	1,4-Dichlorobenzene	13.27	146	43470	1.3020 ug/L	98
64)	1,2-Dichlorobenzene	13.62	146	38815	1.3039 ug/L	97
65)	1,2-Dibromo-3-chloropropan	14.27	75	1740	1.3477 ug/L	95
66)	1,2,4-Trichlorobenzene	15.01	180	21420	1.2919 ug/L	99
67)	1,2,3-Trichlorobenzene	15.47	180	20907	1.5598 ug/L	97

000000215

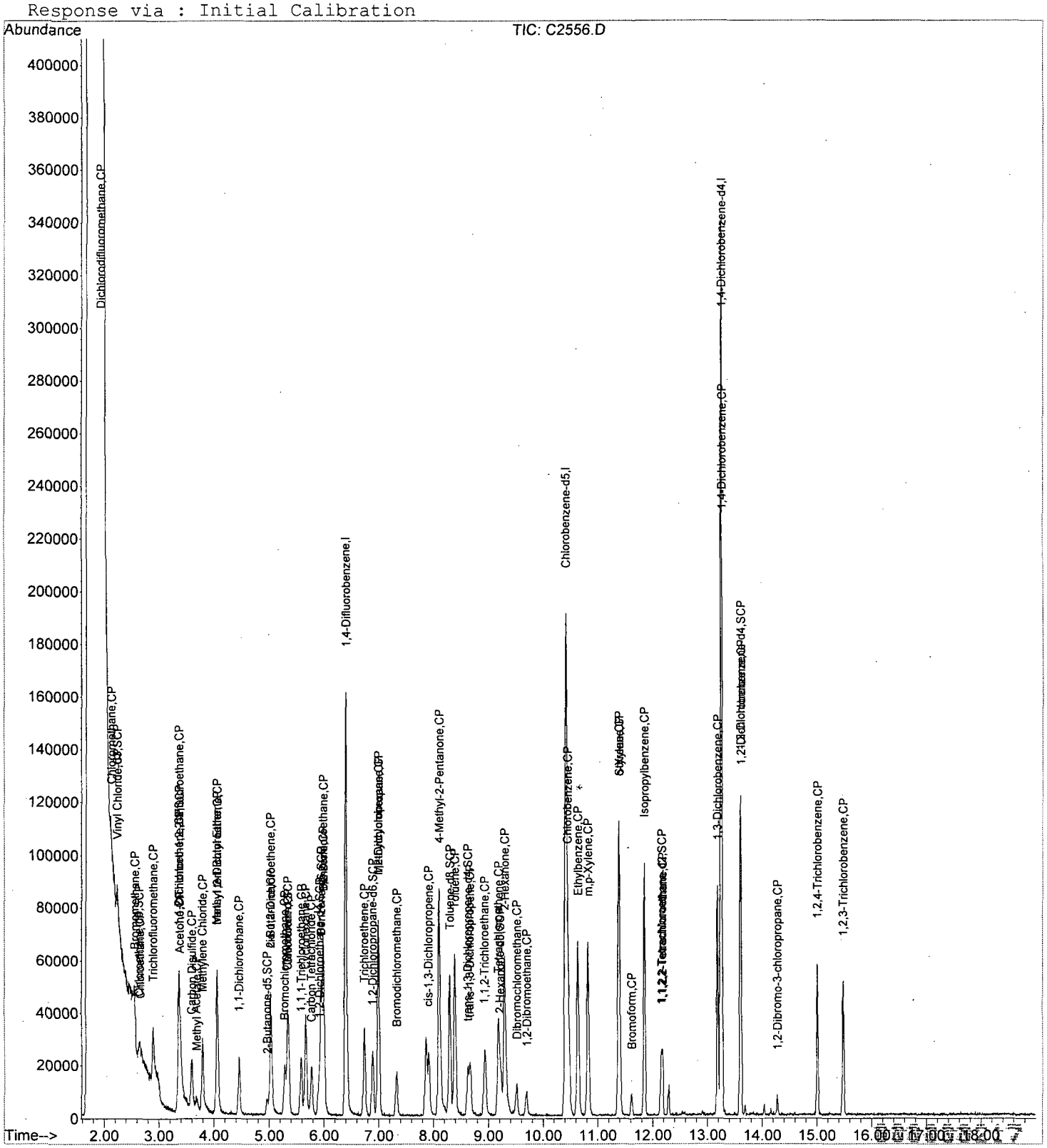
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2556.D
Acq On : 12 Mar 2010 10:39
Sample : 0C12001-CAL2
Misc : VSTD00104 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:06 2010

Vial: 40
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2557.D
Acq On : 12 Mar 2010 11:05
Sample : 0C12001-CAL1
Misc : VSTD0.504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:25:16 2010

Vial: 41
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:23:15 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	176594	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	170175	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	87679	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.24	65	10851	0.5359 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery =	10.72%#	
7) Chloroethane-d5	2.64	69	9088	0.5330 ug/L	0.02
Spiked Amount 5.0000	Range 71 - 131		Recovery =	10.66%#	
10) 1,1-Dichloroethene-d2	3.35	63	11615	0.4907 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery =	9.81%#	
20) 2-Butanone-d5	4.96	46	6355	6.7073 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery =	13.41%#	
24) Chloroform-d	5.32	84	11374	0.5342 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery =	10.68%#	
26) 1,2-Dichloroethane-d4	5.89	65	5780	0.5496 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery =	10.99%#	
32) Benzene-d6	5.94	84	25526	0.4954 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery =	9.91%#	
35) 1,2-Dichloropropane-d6	6.89	67	7174	0.4751 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery =	9.50%#	
41) Toluene-d8	8.29	98	25247	0.5087 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery =	10.17%#	
43) trans-1,3-Dichloropropene-	8.64	79	6924	0.5026 ug/L	0.02
Spiked Amount 5.0000	Range 73 - 121		Recovery =	10.05%#	
47) 2-Hexanone-d5	9.22	63	5301	6.4353 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery =	12.87%#	
57) 1,1,2,2-Tetrachloroethane-	12.14	84	6518	0.5953 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery =	11.91%#	
63) 1,2-Dichlorobenzene-d4	13.60	152	10788	0.5859 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery =	11.72%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.93	85	9649	0.5977 ug/L	65
3) Chloromethane	2.15	50	20974	0.7293 ug/L	69
5) Vinyl Chloride	2.25	62	17192	0.6858 ug/L	98
6) Bromomethane	2.57	94	12762	0.7385 ug/L	82
8) Chloroethane	2.66	64	9800	0.6394 ug/L	100
9) Trichlorofluoromethane	2.89	101	17410	0.6611 ug/L	99
11) 1,1-Dichloroethene	3.36	96	7650	0.6128 ug/L #	62
12) 1,1,2-Trichloro-1,2,2-trif	3.37	101	8274	0.6784 ug/L #	68
13) Acetone	3.39	43	15402	6.6565 ug/L	99
14) Carbon Disulfide	3.59	76	27641	0.6394 ug/L	97
15) Methyl Acetate	3.69	43	4033	0.6890 ug/L	91
16) Methylene Chloride	3.79	84	11412	0.7547 ug/L #	79
17) trans-1,2-Dichloroethene	4.06	96	8815	0.6420 ug/L #	84
18) Methyl tert-Butyl Ether	4.05	73	17597	0.6524 ug/L	97
19) 1,1-Dichloroethane	4.44	63	14847	0.6612 ug/L	97
21) cis-1,2-Dichloroethene	5.03	96	9135	0.6420 ug/L	89
22) 2-Butanone	5.02	43	23973	6.7739 ug/L	96
23) Bromochloromethane	5.28	128	4425	0.7001 ug/L #	64

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Episode: 001265 Int./Date: Ch 3/15/10

000000210

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2557.D
Acq On : 12 Mar 2010 11:05
Sample : 0C12001-CAL1
Misc : VSTD0.504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:25:16 2010

Vial: 41
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:23:15 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
25)	Chloroform	5.34	83	13601	0.6466 ug/L		92
27)	1,2-Dichloroethane	5.98	62	8456	0.6472 ug/L		99
29)	1,1,1-Trichloroethane	5.57	97	11085	0.6101 ug/L		96
30)	Cyclohexane	5.66	56	14428	0.6201 ug/L		95
31)	Carbon Tetrachloride	5.77	117	8330	0.5936 ug/L		98
33)	Benzene	5.99	78	35089	0.6188 ug/L		100
34)	Trichloroethene	6.73	95	8538	0.6169 ug/L		92
36)	Methylcyclohexane	6.99	83	16106	0.6334 ug/L		88
37)	1,2-Dichloropropane	6.99	63	7852	0.5995 ug/L	#	87
38)	Bromodichloromethane	7.34	83	8808	0.6348 ug/L		95
39)	cis-1,3-Dichloropropene	7.92	75	11134	0.5986 ug/L		89
40)	4-Methyl-2-Pentanone	8.10	43	57839	6.8701 ug/L		98
42)	Toluene	8.38	91	39876	0.6334 ug/L		99
44)	trans-1,3-Dichloropropene	8.67	75	9378	0.6202 ug/L		96
45)	1,1,2-Trichloroethane	8.93	97	6510	0.7013 ug/L		90
46)	Tetrachloroethene	9.17	164	8825	0.6431 ug/L		99
48)	2-Hexanone	9.29	43	41800	6.9233 ug/L		98
49)	Dibromochloromethane	9.51	129	5794	0.6317 ug/L		100
50)	1,2-Dibromoethane	9.69	107	6039	0.6733 ug/L	#	97
51)	Chlorobenzene	10.45	112	27812	0.6540 ug/L		99
52)	Ethylbenzene	10.63	91	43919	0.6325 ug/L		100
53)	m,p-Xylene	10.82	106	18375	0.6456 ug/L		94
54)	o-Xylene	11.37	106	17604	0.6438 ug/L		88
55)	Styrene	11.40	104	23280	0.6087 ug/L		91
56)	Isopropylbenzene	11.85	105	43766	0.6214 ug/L		97
58)	1,1,2,2-Tetrachloroethane	12.18	83	7121	0.6556 ug/L		98
60)	Bromoform	11.61	173	2875	0.6468 ug/L	#	87
61)	1,3-Dichlorobenzene	13.19	146	22462	0.6626 ug/L		98
62)	1,4-Dichlorobenzene	13.26	146	23625	0.6821 ug/L		97
64)	1,2-Dichlorobenzene	13.62	146	20873	0.6774 ug/L		98
65)	1,2-Dibromo-3-chloropropan	14.28	75	700	0.5537 ug/L	#	68
66)	1,2,4-Trichlorobenzene	15.00	180	8729	0.5466 ug/L		99
67)	1,2,3-Trichlorobenzene	15.48	180	7603	0.5526 ug/L		96

000000215

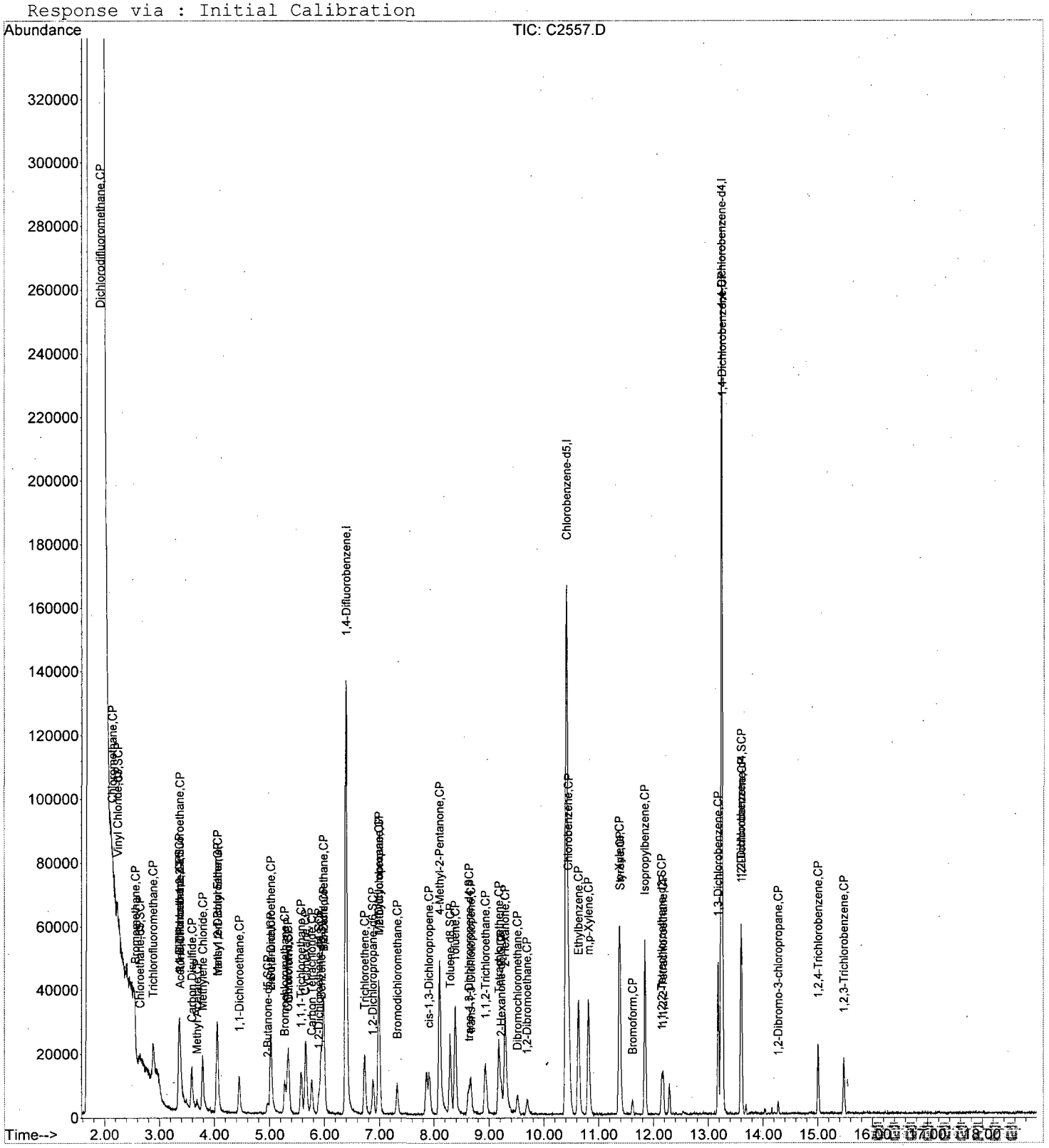
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2557.D
Acq On : 12 Mar 2010 11:05
Sample : 0C12001-CAL1
Misc : VSTD0.504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:25 2010

Vial: 41
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/12/2010 Time: 0916

Lab File ID: C2553.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00504 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.457	0.464	0.010	1.4	40.0
Chloromethane	0.814	0.749	0.010	-8.0	40.0
Vinyl chloride	0.710	0.677	0.100	-4.7	30.0
Bromomethane	0.489	0.428	0.100	-12.5	30.0
Chloroethane	0.434	0.417	0.010	-4.0	40.0
Trichlorofluoromethane	0.746	0.712	0.010	-4.5	40.0
1,1-Dichloroethene	0.353	0.346	0.100	-2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.345	0.321	0.010	-7.2	40.0
Acetone	0.066	0.068	0.010	3.3	40.0
Carbon disulfide	1.224	1.182	0.010	-3.4	40.0
Methyl acetate	0.166	0.148	0.010	-10.5	40.0
Methylene chloride	0.428	0.377	0.010	-11.9	40.0
trans-1,2-Dichloroethene	0.389	0.370	0.010	-4.9	40.0
Methyl tert-butyl ether	0.764	0.696	0.010	-8.8	40.0
1,1-Dichloroethane	0.636	0.579	0.200	-8.9	30.0
cis-1,2-Dichloroethene	0.403	0.378	0.010	-6.3	40.0
2-Butanone	0.100	0.097	0.010	-3.3	40.0
Bromochloromethane	0.179	0.158	0.050	-11.6	30.0
Chloroform	0.596	0.547	0.200	-8.1	30.0
1,1,1-Trichloroethane	0.534	0.513	0.100	-3.8	30.0
Cyclohexane	0.684	0.662	0.010	-3.2	40.0
Carbon tetrachloride	0.412	0.400	0.100	-2.9	30.0
Benzene	1.666	1.588	0.400	-4.7	30.0
1,2-Dichloroethane	0.370	0.341	0.100	-7.9	30.0
Trichloroethene	0.407	0.388	0.300	-4.5	30.0
Methylcyclohexane	0.747	0.715	0.010	-4.2	40.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/12/2010 Time: 0916

Lab File ID: C2553.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00504 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.385	0.359	0.010	-6.6	40.0
Bromodichloromethane	0.408	0.380	0.200	-6.9	30.0
cis-1,3-Dichloropropene	0.547	0.530	0.200	-3.0	30.0
4-Methyl-2-pentanone	0.247	0.226	0.010	-8.6	40.0
Toluene	1.850	1.730	0.400	-6.5	30.0
trans-1,3-Dichloropropene	0.444	0.423	0.100	-4.7	30.0
1,1,2-Trichloroethane	0.273	0.248	0.100	-9.2	30.0
Tetrachloroethene	0.403	0.379	0.100	-5.9	30.0
2-Hexanone	0.177	0.157	0.010	-11.4	40.0
Dibromochloromethane	0.269	0.254	0.100	-5.8	30.0
1,2-Dibromoethane	0.264	0.248	0.010	-6.0	40.0
Chlorobenzene	1.250	1.157	0.500	-7.4	30.0
Ethylbenzene	2.040	1.924	0.100	-5.7	30.0
o-Xylene	0.803	0.745	0.300	-7.3	30.0
m,p-Xylene	0.836	0.781	0.300	-6.6	30.0
Styrene	1.124	1.050	0.300	-6.6	30.0
Bromoform	0.253	0.236	0.050	-7.0	30.0
Isopropylbenzene	2.069	1.958	0.010	-5.4	40.0
1,1,2,2-Tetrachloroethane	0.319	0.296	0.100	-7.3	30.0
1,3-Dichlorobenzene	1.933	1.800	0.400	-6.9	30.0
1,4-Dichlorobenzene	1.975	1.797	0.400	-9.0	30.0
1,2-Dichlorobenzene	1.757	1.604	0.400	-8.7	30.0
1,2-Dibromo-3-chloropropane	0.072	0.070	0.010	-3.5	40.0
1,2,4-Trichlorobenzene	0.911	0.779	0.200	-14.5	30.0
1,2,3-Trichlorobenzene	0.785	0.626	0.200	-20.2	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/12/2010 Time: 0916

Lab File ID: C2553.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00504 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.573	0.585	0.010	2.1	30.0
Chloroethane-d5	0.483	0.481	0.010	-0.3	40.0
1,1-Dichloroethene-d2	0.670	0.684	0.010	2.1	30.0
2-Butanone-d5	0.027	0.025	0.010	-5.0	40.0
Chloroform-d	0.603	0.602	0.010	-0.1	30.0
1,2-Dichloroethane-d4	0.298	0.301	0.010	1.2	30.0
Benzene-d6	1.514	1.567	0.010	3.5	30.0
1,2-Dichloropropane-d6	0.444	0.471	0.010	6.3	40.0
Toluene-d8	1.458	1.493	0.010	2.4	30.0
trans-1,3-Dichloropropene-d4	0.405	0.421	0.010	4.1	30.0
2-Hexanone-d5	0.024	0.024	0.010	-2.1	40.0
1,1,2,2-Tetrachloroethane-d2	0.322	0.320	0.010	-0.6	30.0
1,2-Dichlorobenzene-d4	1.050	1.038	0.010	-1.1	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2553.D Vial: 37
Acq On : 12 Mar 2010 9:16 Operator: SP
Sample : 0C12001-CAL3 Inst : C-5973
Misc : VSTD00504 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 09:50:37 2010 Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Wed Sep 16 11:52:35 2009
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	209335	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	187949	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	103141	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.23	65	122499	6.5380 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 130.76%		
7) Chloroethane-d5	2.62	69	100712	6.7677 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 135.35%#		
10) 1,1-Dichloroethene-d2	3.35	63	143225	4.7827 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 95.65%		
20) 2-Butanone-d5	4.95	46	53343	25.1262 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 50.25%		
24) Chloroform-d	5.32	84	126064	5.7001 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 114.00%		
26) 1,2-Dichloroethane-d4	5.90	65	63089	5.4198 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 108.40%		
32) Benzene-d6	5.94	84	294463	5.6333 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 112.67%		
35) 1,2-Dichloropropane-d6	6.88	67	88601	5.7180 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 114.36%		
41) Toluene-d8	8.29	98	280555	5.7955 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 115.91%		
43) trans-1,3-Dichloropropene-	8.62	79	79165	5.1344 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 102.69%		
47) 2-Hexanone-d5	9.22	63	44542	23.3543 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 46.71%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	60074	5.8249 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 116.50%		
63) 1,2-Dichlorobenzene-d4	13.59	152	107089	5.8388 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 116.78%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.93	85	97040	4.6909 ug/L	93
3) Chloromethane	2.14	50	156792	5.7255 ug/L #	43
5) Vinyl Chloride	2.24	62	141621	6.8082 ug/L	98
6) Bromomethane	2.56	94	89596	9.0828 ug/L	95
8) Chloroethane	2.65	64	87241	6.0562 ug/L #	100
9) Trichlorofluoromethane	2.88	101	149104	6.6264 ug/L	99
11) 1,1-Dichloroethene	3.36	96	72480	5.8954 ug/L #	79
12) 1,1,2-Trichloro-1,2,2-trif	3.36	101	67105	5.5093 ug/L	91
13) Acetone	3.38	43	141610	35.3050 ug/L	93
14) Carbon Disulfide	3.59	76	247507	5.3874 ug/L	99
15) Methyl Acetate	3.69	43	31037	4.3462 ug/L	98
16) Methylene Chloride	3.79	84	78992	6.3172 ug/L #	83
17) trans-1,2-Dichloroethene	4.06	96	77363	5.7297 ug/L #	88
18) Methyl tert-Butyl Ether	4.05	73	145797	5.0664 ug/L	95
19) 1,1-Dichloroethane	4.45	63	121180	4.9734 ug/L	99
21) cis-1,2-Dichloroethene	5.03	96	79058	5.9122 ug/L	89
22) 2-Butanone	5.01	43	202848	38.3678 ug/L	91
23) Bromochloromethane	5.28	128	33113	6.0841 ug/L #	77

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Episode: 0011765 Int./Date: 3/15/10

000000224

(#) = qualifier out of range (m) = manual integration
C2553.D SOTC2553.M Mon Mar 15 14:44:44 2010

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2553.D
Acq On : 12 Mar 2010 9:16
Sample : 0C12001-CAL3
Misc : VSTD00504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 09:50:37 2010

Vial: 37
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Wed Sep 16 11:52:35 2009
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.35	83	114561	5.4433 ug/L	97
27)	1,2-Dichloroethane	5.98	62	71330	4.9364 ug/L	95
29)	1,1,1-Trichloroethane	5.58	97	96504	4.6885 ug/L	97
30)	Cyclohexane	5.66	56	124410	4.2443 ug/L	90
31)	Carbon Tetrachloride	5.77	117	75265	4.4022 ug/L	100
33)	Benzene	5.98	78	298465	5.4086 ug/L	100
34)	Trichloroethene	6.73	95	72992	5.2657 ug/L	94
36)	Methylcyclohexane	6.99	83	134453	4.7419 ug/L	91
37)	1,2-Dichloropropane	6.99	63	67565	5.1133 ug/L	99
38)	Bromodichloromethane	7.32	83	71360	5.1021 ug/L	99
39)	cis-1,3-Dichloropropene	7.91	75	99624	5.4474 ug/L	97
40)	4-Methyl-2-Pentanone	8.10	43	424955	40.2402 ug/L	94
42)	Toluene	8.38	91	325216	5.4620 ug/L	99
44)	trans-1,3-Dichloropropene	8.67	75	79559	5.2403 ug/L	99
45)	1,1,2-Trichloroethane	8.92	97	46538	5.5976 ug/L	97
46)	Tetrachloroethene	9.17	164	71287	5.5900 ug/L	98
48)	2-Hexanone	9.28	43	295551	34.0274 ug/L	95
49)	Dibromochloromethane	9.51	129	47690	5.4235 ug/L	98
50)	1,2-Dibromoethane	9.69	107	46559	5.6125 ug/L	98
51)	Chlorobenzene	10.45	112	217378	5.6801 ug/L	95
52)	Ethylbenzene	10.63	91	361683	5.2972 ug/L	97
53)	m,p-Xylene	10.81	106	146828	5.4924 ug/L	94
54)	o-Xylene	11.37	106	140021	5.6063 ug/L	96
55)	Styrene	11.39	104	197277	7.4226 ug/L	92
56)	Isopropylbenzene	11.84	105	367973	5.2127 ug/L	97
58)	1,1,2,2-Tetrachloroethane	12.18	83	55619	5.3276 ug/L	99
60)	Bromoform	11.61	173	24317	4.8653 ug/L	99
61)	1,3-Dichlorobenzene	13.18	146	185673	5.6256 ug/L	98
62)	1,4-Dichlorobenzene	13.26	146	185315	5.5908 ug/L	99
64)	1,2-Dichlorobenzene	13.61	146	165429	5.6760 ug/L	99
65)	1,2-Dibromo-3-chloropropan	14.28	75	7177	4.4570 ug/L	87
66)	1,2,4-Trichlorobenzene	15.01	180	80339	5.1169 ug/L	98
67)	1,2,3-Trichlorobenzene	15.48	180	64612	4.9374 ug/L	99

000000225

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

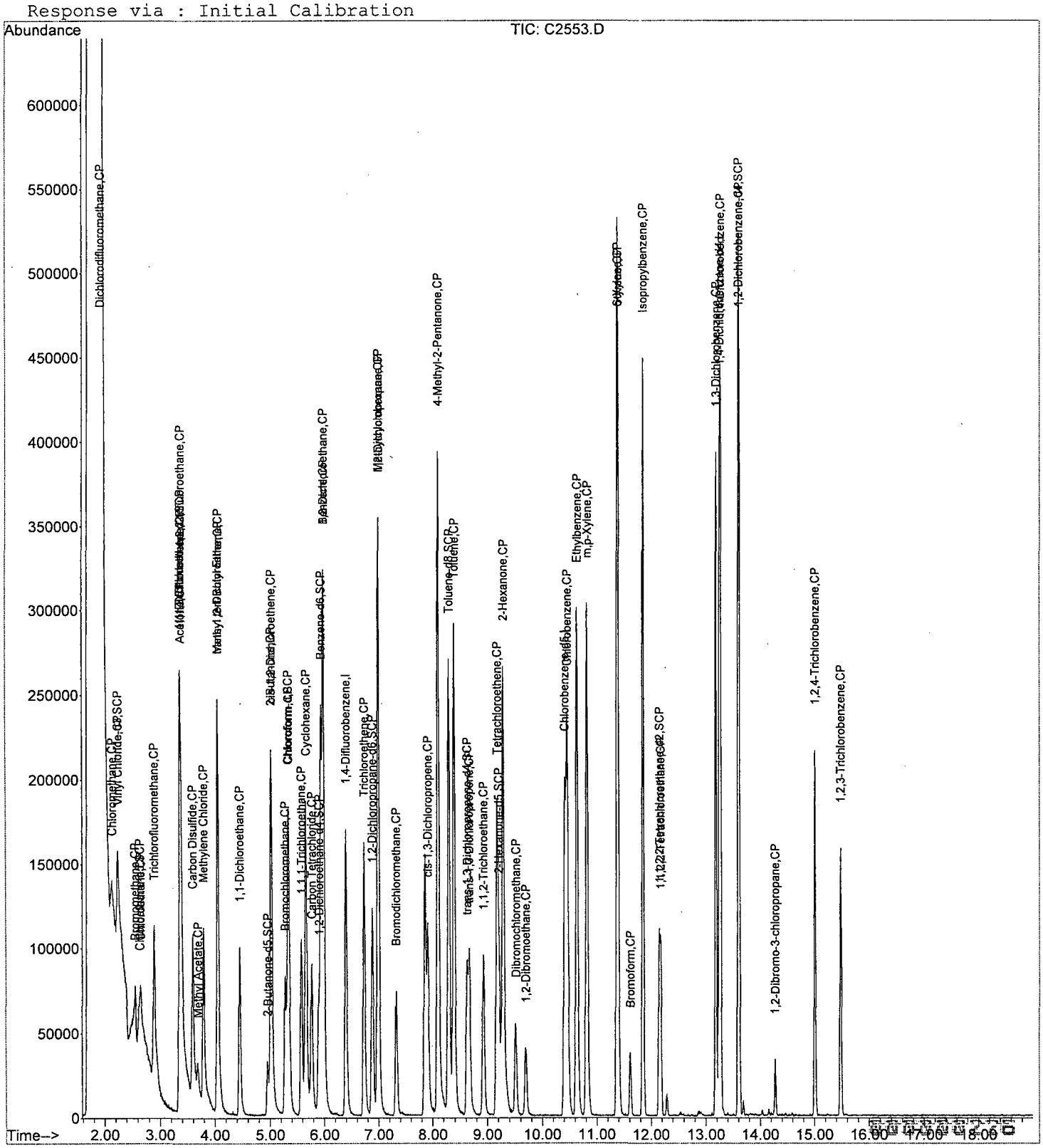
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2553.D
Acq On : 12 Mar 2010 9:16
Sample : 0C12001-CAL3
Misc : VSTD00504 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 9:50 2010

Vial: 37
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\C2553.D
Acq On : 12 Mar 2010 9:16
Sample : 0C12001-CAL3
Misc : VSTD00504 25ML
MS Integration Params: RTEINT.P

Vial: 37
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

3/15/10

3/15/10

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Difluorobenzene	1.00000	1.00000	0.00	100	0.00
2	CP	Dichlorodifluoromethane	0.45710	0.46356	1.41	100	0.00
3	CP	Chloromethane	0.81431	0.74900	-8.02	100	0.00
4	SCP	Vinyl Chloride-d3	0.57335	0.58518	2.06	100	0.00
5	CP	Vinyl Chloride	0.70975	0.67653	-4.68	100	0.00
6	CP	Bromomethane	0.48931	0.42800	-12.53	100	0.00
7	SCP	Chloroethane-d5	0.48278	0.48110	-0.35	100	0.00
8	CP	Chloroethane	0.43396	0.41675	-3.97	100	0.00
9	CP	Trichlorofluoromethane	0.74567	0.71227	-4.48	100	0.00
10	SCP	1,1-Dichloroethene-d2	0.67013	0.68419	2.10	100	0.00
11	CP	1,1-Dichloroethene	0.35344	0.34624	-2.04	100	0.00
12	CP	1,1,2-Trichloro-1,2,2-trifl	0.34535	0.32056	-7.18	100	0.00
13	CP	Acetone	0.06551	0.06765	3.26	100	0.00
14	CP	Carbon Disulfide	1.22396	1.18235	-3.40	100	0.00
15	CP	Methyl Acetate	0.16572	0.14826	-10.53	100	0.00
16	CP	Methylene Chloride	0.42816	0.37735	-11.87	100	0.00
17	CP	trans-1,2-Dichloroethene	0.38876	0.36957	-4.94	100	0.00
18	CP	Methyl tert-Butyl Ether	0.76369	0.69648	-8.80	100	0.00
19	CP	1,1-Dichloroethane	0.63577	0.57888	-8.95	100	0.00
20	SCP	2-Butanone-d5	0.02683	0.02548	-5.01	100	0.00
21	CP	cis-1,2-Dichloroethene	0.40289	0.37766	-6.26	100	0.00
22	CP	2-Butanone	0.10020	0.09690	-3.29	100	0.00
23	CP	Bromochloromethane	0.17897	0.15818	-11.61	100	0.00
24	SCP	Chloroform-d	0.60279	0.60221	-0.10	100	0.00
25	CP	Chloroform	0.59553	0.54726	-8.10	100	0.00
26	SCP	1,2-Dichloroethane-d4	0.29778	0.30138	1.21	100	0.00
27	CP	1,2-Dichloroethane	0.36992	0.34075	-7.89	100	0.00
28	I	Chlorobenzene-d5	1.00000	1.00000	0.00	100	0.00
29	CP	1,1,1-Trichloroethane	0.53385	0.51346	-3.82	100	0.00
30	CP	Cyclohexane	0.68367	0.66193	-3.18	100	0.00
31	CP	Carbon Tetrachloride	0.41228	0.40045	-2.87	100	0.00
32	SCP	Benzene-d6	1.51389	1.56672	3.49	100	0.00
33	CP	Benzene	1.66620	1.58801	-4.69	100	0.00
34	CP	Trichloroethene	0.40664	0.38836	-4.49	100	0.00
35	SCP	1,2-Dichloropropane-d6	0.44364	0.47141	6.26	100	0.00
36	CP	Methylcyclohexane	0.74709	0.71537	-4.25	100	0.00
37	CP	1,2-Dichloropropane	0.38483	0.35949	-6.59	100	0.00
38	CP	Bromodichloromethane	0.40766	0.37968	-6.86	100	0.00
39	CP	cis-1,3-Dichloropropene	0.54654	0.53006	-3.02	100	0.00
40	CP	4-Methyl-2-Pentanone	0.24736	0.22610	-8.60	100	0.00
41	SCP	Toluene-d8	1.45808	1.49272	2.38	100	0.00
42	CP	Toluene	1.84968	1.73034	-6.45	100	0.00
43	SCP	trans-1,3-Dichloropropene-d	0.40473	0.42120	4.07	100	0.00
44	CP	trans-1,3-Dichloropropene	0.44428	0.42330	-4.72	100	0.00
45	CP	1,1,2-Trichloroethane	0.27275	0.24761	-9.22	100	0.00
46	CP	Tetrachloroethene	0.40319	0.37929	-5.93	100	0.00
47	SCP	2-Hexanone-d5	0.02420	0.02370	-2.08	100	0.00
48	CP	2-Hexanone	0.17739	0.15725	-11.36	100	0.00
49	CP	Dibromochloromethane	0.26948	0.25374	-5.84	100	0.00
50	CP	1,2-Dibromoethane	0.26351	0.24772	-5.99	100	0.00
51	CP	Chlorobenzene	1.24952	1.15658	-7.44	100	0.00
52	CP	Ethylbenzene	2.04006	1.92437	-5.67	100	0.00
53	CP	m,p-Xylene	0.83623	0.78121	-6.58	100	0.00

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54	CP	o-Xylene	0.80335	0.74499	-7.26	100	0.00
55	CP	Styrene	1.12365	1.04963	-6.59	100	0.00
56	CP	Isopropylbenzene	2.06944	1.95783	-5.39	100	0.00
57	SCP	1,1,2,2-Tetrachloroethane-d	0.32172	0.31963	-0.65	100	0.00
58	CP	1,1,2,2-Tetrachloroethane	0.31912	0.29593	-7.27	100	0.00
59	I	1,4-Dichlorobenzene-d4	1.00000	1.00000	0.00	100	0.00
60	CP	Bromoform	0.25348	0.23576	-6.99	100	0.00
61	CP	1,3-Dichlorobenzene	1.93308	1.80019	-6.87	100	0.00
62	CP	1,4-Dichlorobenzene	1.97513	1.79672	-9.03	100	0.00
63	SCP	1,2-Dichlorobenzene-d4	1.04997	1.03828	-1.11	100	0.00
64	CP	1,2-Dichlorobenzene	1.75722	1.60391	-8.72	100	0.00
65	CP	1,2-Dibromo-3-chloropropane	0.07210	0.06958	-3.49	100	0.00
66	CP	1,2,4-Trichlorobenzene	0.91069	0.77892	-14.47	100	0.00
67	CP	1,2,3-Trichlorobenzene	0.78458	0.62644	-20.16	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C2553.D SOTC2553.M Mon Mar 15 14:44:49 2010

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/12/2010 Time: 1807

Lab File ID: C2570.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00505 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.457	0.474	0.010	3.6	40.0
Chloromethane	0.814	0.741	0.010	-9.0	40.0
Vinyl chloride	0.710	0.683	0.100	-3.8	30.0
Bromomethane	0.489	0.436	0.100	-11.0	30.0
Chloroethane	0.434	0.423	0.010	-2.5	40.0
Trichlorofluoromethane	0.746	0.756	0.010	1.4	40.0
1,1-Dichloroethene	0.353	0.358	0.100	1.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.345	0.339	0.010	-2.0	40.0
Acetone	0.066	0.053	0.010	-19.4	40.0
Carbon disulfide	1.224	1.192	0.010	-2.6	40.0
Methyl acetate	0.166	0.146	0.010	-12.0	40.0
Methylene chloride	0.428	0.366	0.010	-14.6	40.0
trans-1,2-Dichloroethene	0.389	0.371	0.010	-4.6	40.0
Methyl tert-butyl ether	0.764	0.697	0.010	-8.7	40.0
1,1-Dichloroethane	0.636	0.592	0.200	-6.9	30.0
cis-1,2-Dichloroethene	0.403	0.380	0.010	-5.6	40.0
2-Butanone	0.100	0.092	0.010	-8.2	40.0
Bromochloromethane	0.179	0.163	0.050	-9.1	30.0
Chloroform	0.596	0.553	0.200	-7.1	30.0
1,1,1-Trichloroethane	0.534	0.507	0.100	-5.1	30.0
Cyclohexane	0.684	0.717	0.010	4.8	40.0
Carbon tetrachloride	0.412	0.325	0.100	-21.2	30.0
Benzene	1.666	1.595	0.400	-4.3	30.0
1,2-Dichloroethane	0.370	0.346	0.100	-6.4	30.0
Trichloroethene	0.407	0.400	0.300	-1.6	30.0
Methylcyclohexane	0.747	0.758	0.010	1.5	40.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/12/2010 Time: 1807

Lab File ID: C2570.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00505 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.385	0.369	0.010	-4.1	40.0
Bromodichloromethane	0.408	0.345	0.200	-15.5	30.0
cis-1,3-Dichloropropene	0.547	0.482	0.200	-11.9	30.0
4-Methyl-2-pentanone	0.247	0.241	0.010	-2.6	40.0
Toluene	1.850	1.755	0.400	-5.1	30.0
trans-1,3-Dichloropropene	0.444	0.400	0.100	-10.0	30.0
1,1,2-Trichloroethane	0.273	0.257	0.100	-5.8	30.0
Tetrachloroethene	0.403	0.396	0.100	-1.8	30.0
2-Hexanone	0.177	0.164	0.010	-7.5	40.0
Dibromochloromethane	0.269	0.198	0.100	-26.4	30.0
1,2-Dibromoethane	0.264	0.250	0.010	-5.1	40.0
Chlorobenzene	1.250	1.150	0.500	-7.9	30.0
Ethylbenzene	2.040	1.935	0.100	-5.1	30.0
o-Xylene	0.803	0.760	0.300	-5.4	30.0
m,p-Xylene	0.836	0.794	0.300	-5.1	30.0
Styrene	1.124	1.064	0.300	-5.3	30.0
Bromoform	0.253	0.160	0.050	-36.9	30.0
Isopropylbenzene	2.069	2.000	0.010	-3.4	40.0
1,1,2,2-Tetrachloroethane	0.319	0.302	0.100	-5.3	30.0
1,3-Dichlorobenzene	1.933	1.763	0.400	-8.8	30.0
1,4-Dichlorobenzene	1.975	1.764	0.400	-10.7	30.0
1,2-Dichlorobenzene	1.757	1.570	0.400	-10.6	30.0
1,2-Dibromo-3-chloropropane	0.072	0.058	0.010	-19.7	40.0
1,2,4-Trichlorobenzene	0.911	0.765	0.200	-16.0	30.0
1,2,3-Trichlorobenzene	0.785	0.621	0.200	-20.9	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/12/2010 Time: 1807

Lab File ID: C2570.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00505 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.573	0.602	0.010	5.0	30.0
Chloroethane-d5	0.483	0.497	0.010	3.0	40.0
1,1-Dichloroethene-d2	0.670	0.713	0.010	6.4	30.0
2-Butanone-d5	0.027	0.024	0.010	-10.8	40.0
Chloroform-d	0.603	0.573	0.010	-5.0	30.0
1,2-Dichloroethane-d4	0.298	0.290	0.010	-2.6	30.0
Benzene-d6	1.514	1.509	0.010	-0.3	30.0
1,2-Dichloropropane-d6	0.444	0.462	0.010	4.2	40.0
Toluene-d8	1.458	1.416	0.010	-2.9	30.0
trans-1,3-Dichloropropene-d4	0.405	0.373	0.010	-7.9	30.0
2-Hexanone-d5	0.024	0.023	0.010	-4.9	40.0
1,1,2,2-Tetrachloroethane-d2	0.322	0.311	0.010	-3.3	30.0
1,2-Dichlorobenzene-d4	1.050	0.988	0.010	-5.9	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2570.D
Acq On : 12 Mar 2010 18:07
Sample : 0C12001-CCV1
Misc : VSTD00505 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 18:30:20 2010

Vial: 12
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	195105	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	172807	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	98293	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.23	65	117493	5.2517 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 105.03%		
7) Chloroethane-d5	2.62	69	96976	5.1477 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 102.95%		
10) 1,1-Dichloroethene-d2	3.35	63	139135	5.3208 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 106.42%#		
20) 2-Butanone-d5	4.95	46	46674	44.5877 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 89.18%		
24) Chloroform-d	5.32	84	111770	4.7518 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 95.04%		
26) 1,2-Dichloroethane-d4	5.90	65	56583	4.8697 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 97.39%		
32) Benzene-d6	5.94	84	260736	4.9833 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 99.67%		
35) 1,2-Dichloropropane-d6	6.89	67	79889	5.2103 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 104.21%		
41) Toluene-d8	8.29	98	244689	4.8556 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 97.11%		
43) trans-1,3-Dichloropropene-	8.62	79	64438	4.6066 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 92.13%		
47) 2-Hexanone-d5	9.21	63	39775	47.5509 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 95.10%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	53750	4.8341 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 96.68%		
63) 1,2-Dichlorobenzene-d4	13.60	152	97090	4.7038 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 94.08%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.93	85	92409	5.1809 ug/L	93
3) Chloromethane	2.21	50	144626	4.5516 ug/L #	100
5) Vinyl Chloride	2.24	62	133279	4.8123 ug/L	97
6) Bromomethane	2.56	94	85007	4.4521 ug/L	99
8) Chloroethane	2.64	64	82538	4.8742 ug/L #	45
9) Trichlorofluoromethane	2.89	101	147536	5.0705 ug/L	98
11) 1,1-Dichloroethene	3.36	96	69867	5.0659 ug/L	99
12) 1,1,2-Trichloro-1,2,2-trif	3.36	101	66045	4.9010 ug/L	96
13) Acetone	3.38	43	103009	40.2950 ug/L	100
14) Carbon Disulfide	3.59	76	232647	4.8711 ug/L	100
15) Methyl Acetate	3.68	43	28444	4.3987 ug/L	98
16) Methylene Chloride	3.79	84	71351	4.2707 ug/L	91
17) trans-1,2-Dichloroethene	4.05	96	72345	4.7691 ug/L	98
18) Methyl tert-Butyl Ether	4.04	73	136017	4.5644 ug/L	99
19) 1,1-Dichloroethane	4.45	63	115464	4.6542 ug/L	100
21) cis-1,2-Dichloroethene	5.03	96	74200	4.7198 ug/L	99
22) 2-Butanone	5.01	43	179516	45.9119 ug/L	98
23) Bromochloromethane	5.28	128	31747	4.5461 ug/L	98

(#) = qualifier out of range (m) = manual integration

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Episode: 001765 Int./Date: 3/15/10

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2570.D Vial: 12
Acq On : 12 Mar 2010 18:07 Operator: SP
Sample : 0C12001-CCV1 Inst : C-5973
Misc : VSTD00505 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 18:30:20 2010 Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) Chloroform	5.35	83	107899	4.6432 ug/L	100
27) 1,2-Dichloroethane	5.98	62	67546	4.6794 ug/L	100
29) 1,1,1-Trichloroethane	5.58	97	87573	4.7464 ug/L	99
30) Cyclohexane	5.66	56	123844	5.2413 ug/L	96
31) Carbon Tetrachloride	5.77	117	56157	3.9411 ug/L	100
33) Benzene	5.98	78	275649	4.7867 ug/L	100
34) Trichloroethene	6.73	95	69147	4.9201 ug/L	98
36) Methylcyclohexane	6.99	83	131068	5.0762 ug/L	100
37) 1,2-Dichloropropane	7.00	63	63806	4.7973 ug/L	100
38) Bromodichloromethane	7.32	83	59539	4.2258 ug/L	100
39) cis-1,3-Dichloropropene	7.91	75	83238	4.4067 ug/L	97
40) 4-Methyl-2-Pentanone	8.10	43	416231	48.6866 ug/L	99
42) Toluene	8.38	91	303263	4.7439 ug/L	98
44) trans-1,3-Dichloropropene	8.66	75	69125	4.5018 ug/L	98
45) 1,1,2-Trichloroethane	8.92	97	44420	4.7122 ug/L	99
46) Tetrachloroethene	9.18	164	68440	4.9114 ug/L	97
48) 2-Hexanone	9.29	43	283647	46.2644 ug/L	98
49) Dibromochloromethane	9.51	129	34270	3.6795 ug/L	98
50) 1,2-Dibromoethane	9.69	107	43219	4.7455 ug/L	99
51) Chlorobenzene	10.46	112	198789	4.6032 ug/L	99
52) Ethylbenzene	10.63	91	334412	4.7429 ug/L	100
53) m,p-Xylene	10.81	106	137167	4.7460 ug/L	98
54) o-Xylene	11.38	106	131271	4.7279 ug/L	98
55) Styrene	11.39	104	183846	4.7340 ug/L	99
56) Isopropylbenzene	11.84	105	345576	4.8317 ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.18	83	52246	4.7370 ug/L	100
60) Bromoform	11.62	173	15715	3.1537 ug/L	99
61) 1,3-Dichlorobenzene	13.18	146	173247	4.5589 ug/L	99
62) 1,4-Dichlorobenzene	13.27	146	173394	4.4657 ug/L	99
64) 1,2-Dichlorobenzene	13.61	146	154359	4.4684 ug/L	99
65) 1,2-Dibromo-3-chloropropan	14.28	75	5692	4.0160 ug/L	96
66) 1,2,4-Trichlorobenzene	15.01	180	75194	4.2001 ug/L	99
67) 1,2,3-Trichlorobenzene	15.48	180	60996	3.9547 ug/L	99

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

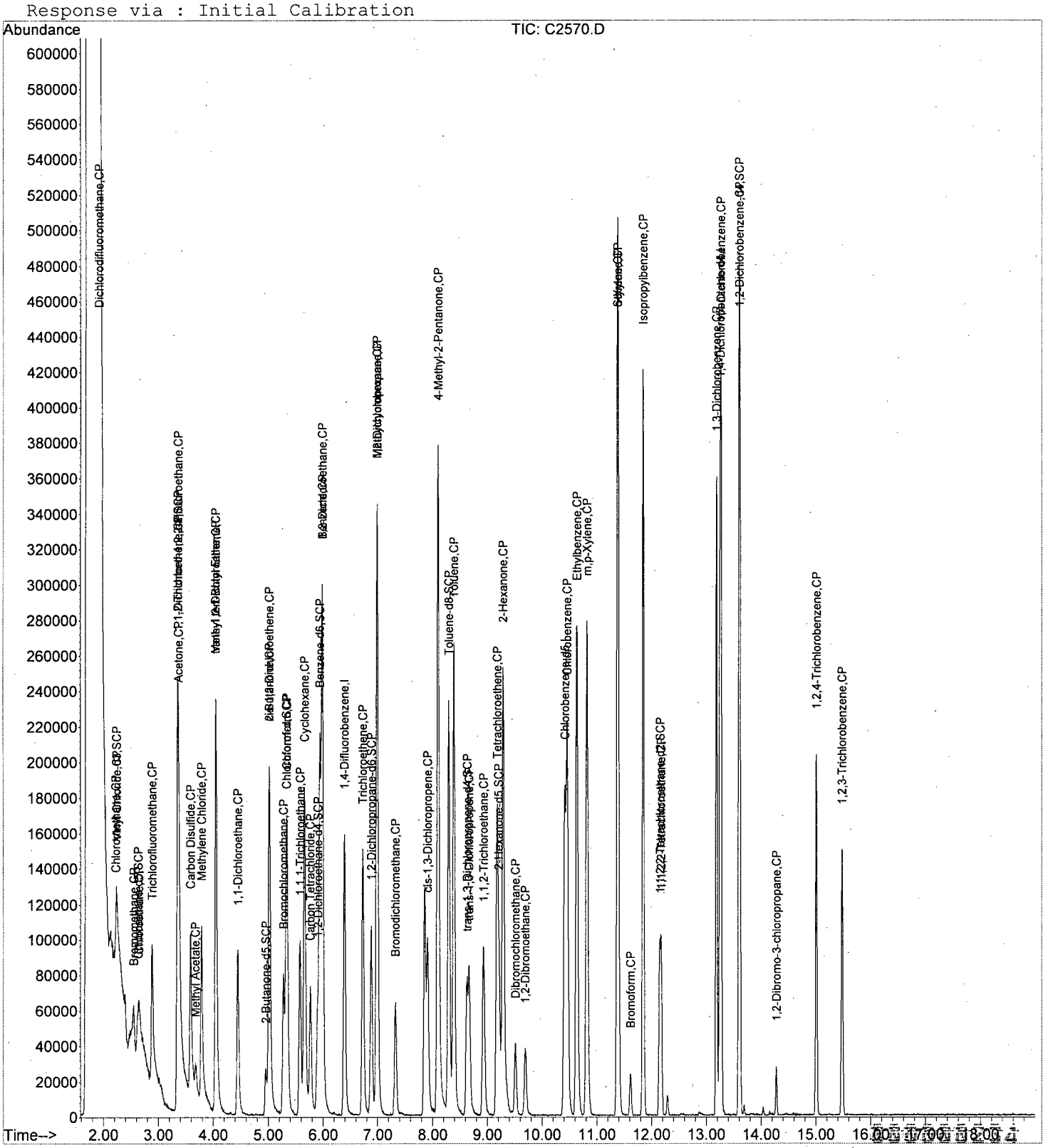
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2570.D
Acq On : 12 Mar 2010 18:07
Sample : 0C12001-CCV1
Misc : VSTD00505 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 18:30 2010

Vial: 12
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\C2570.D
Acq On : 12 Mar 2010 18:07
Sample : 0C12001-CCV1
Misc : VSTD00505 25ML
MS Integration Params: RTEINT.P

Vial: 12
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Difluorobenzene	1.00000	1.00000	0.00	93	0.00
2	CP	Dichlorodifluoromethane	0.45710	0.47364	3.62	95	0.00
3	CP	Chloromethane	0.81431	0.74127	-8.97	92	0.00
4	SCP	Vinyl Chloride-d3	0.57335	0.60220	5.03	96	0.00
5	CP	Vinyl Chloride	0.70975	0.68311	-3.75	94	0.00
6	CP	Bromomethane	0.48931	0.43570	-10.96	95	0.00
7	SCP	Chloroethane-d5	0.48278	0.49705	2.95	96	0.00
8	CP	Chloroethane	0.43396	0.42304	-2.52	95	0.00
9	CP	Trichlorofluoromethane	0.74567	0.75619	1.41	99	0.00
10	SCP	1,1-Dichloroethene-d2	0.67013	0.71313	6.42	97	0.00
11	CP	1,1-Dichloroethene	0.35344	0.35810	1.32	96	0.00
12	CP	1,1,2-Trichloro-1,2,2-trifl	0.34535	0.33851	-1.98	98	0.00
13	CP	Acetone	0.06551	0.05280	-19.41	73	0.00
14	CP	Carbon Disulfide	1.22396	1.19242	-2.58	94	0.00
15	CP	Methyl Acetate	0.16572	0.14579	-12.03	92	0.00
16	CP	Methylene Chloride	0.42816	0.36571	-14.59	90	0.00
17	CP	trans-1,2-Dichloroethene	0.38876	0.37080	-4.62	94	0.00
18	CP	Methyl tert-Butyl Ether	0.76369	0.69715	-8.71	93	0.00
19	CP	1,1-Dichloroethane	0.63577	0.59180	-6.92	95	0.00
20	SCP	2-Butanone-d5	0.02683	0.02392	-10.82	87	0.00
21	CP	cis-1,2-Dichloroethene	0.40289	0.38031	-5.60	94	0.00
22	CP	2-Butanone	0.10020	0.09201	-8.18	88	0.00
23	CP	Bromochloromethane	0.17897	0.16272	-9.08	96	0.00
24	SCP	Chloroform-d	0.60279	0.57287	-4.96	89	0.00
25	CP	Chloroform	0.59553	0.55303	-7.14	94	0.00
26	SCP	1,2-Dichloroethane-d4	0.29778	0.29001	-2.61	90	0.00
27	CP	1,2-Dichloroethane	0.36992	0.34620	-6.41	95	0.00
28	I	Chlorobenzene-d5	1.00000	1.00000	0.00	92	0.00
29	CP	1,1,1-Trichloroethane	0.53385	0.50677	-5.07	91	0.00
30	CP	Cyclohexane	0.68367	0.71666	4.83	100	0.00
31	CP	Carbon Tetrachloride	0.41228	0.32497	-21.18	75	0.00
32	SCP	Benzene-d6	1.51389	1.50883	-0.33	89	0.00
33	CP	Benzene	1.66620	1.59513	-4.27	92	0.00
34	CP	Trichloroethene	0.40664	0.40014	-1.60	95	0.00
35	SCP	1,2-Dichloropropane-d6	0.44364	0.46230	4.21	90	0.00
36	CP	Methylcyclohexane	0.74709	0.75846	1.52	97	0.00
37	CP	1,2-Dichloropropane	0.38483	0.36923	-4.05	94	0.00
38	CP	Bromodichloromethane	0.40766	0.34454	-15.48	83	0.00
39	CP	cis-1,3-Dichloropropene	0.54654	0.48168	-11.87	84	0.00
40	CP	4-Methyl-2-Pentanone	0.24736	0.24086	-2.63	98	0.00
41	SCP	Toluene-d8	1.45808	1.41597	-2.89	87	0.00
42	CP	Toluene	1.84968	1.75492	-5.12	93	0.00
43	SCP	trans-1,3-Dichloropropene-d	0.40473	0.37289	-7.87	81	0.00
44	CP	trans-1,3-Dichloropropene	0.44428	0.40001	-9.96	87	0.00
45	CP	1,1,2-Trichloroethane	0.27275	0.25705	-5.76	95	0.00
46	CP	Tetrachloroethene	0.40319	0.39605	-1.77	96	0.00
47	SCP	2-Hexanone-d5	0.02420	0.02302	-4.90	89	0.00
48	CP	2-Hexanone	0.17739	0.16414	-7.47	96	0.00
49	CP	Dibromochloromethane	0.26948	0.19831	-26.41	72	0.00
50	CP	1,2-Dibromoethane	0.26351	0.25010	-5.09	93	0.00
51	CP	Chlorobenzene	1.24952	1.15035	-7.94	91	0.00
52	CP	Ethylbenzene	2.04006	1.93518	-5.14	92	0.00
53	CP	m,p-Xylene	0.83623	0.79376	-5.08	93	0.00

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54	CP	o-Xylene	0.80335	0.75964	-5.44	94	0.00
55	CP	Styrene	1.12365	1.06388	-5.32	93	0.00
56	CP	Isopropylbenzene	2.06944	1.99978	-3.37	94	0.00
57	SCP	1,1,2,2-Tetrachloroethane-d	0.32172	0.31104	-3.32	89	0.00
58	CP	1,1,2,2-Tetrachloroethane	0.31912	0.30234	-5.26	94	0.00
59	I	1,4-Dichlorobenzene-d4	1.00000	1.00000	0.00	95	0.00
60	CP	Bromoform	0.25348	0.15988	-36.93#	65	0.00
61	CP	1,3-Dichlorobenzene	1.93308	1.76256	-8.82	93	0.00
62	CP	1,4-Dichlorobenzene	1.97513	1.76405	-10.69	94	0.00
63	SCP	1,2-Dichlorobenzene-d4	1.04997	0.98776	-5.92	91	0.00
64	CP	1,2-Dichlorobenzene	1.75722	1.57040	-10.63	93	0.00
65	CP	1,2-Dibromo-3-chloropropane	0.07210	0.05791	-19.68	79	0.00
66	CP	1,2,4-Trichlorobenzene	0.91069	0.76500	-16.00	94	0.00
67	CP	1,2,3-Trichlorobenzene	0.78458	0.62055	-20.91	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
C2570.D SOTC2570.M Mon Mar 15 14:51:35 2010

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/13/2010 Time: 0326

Lab File ID: C2591.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00506 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.457	0.574	0.010	25.7	50.0
Chloromethane	0.814	0.892	0.010	9.5	50.0
Vinyl chloride	0.710	0.837	0.010	18.0	50.0
Bromomethane	0.489	0.571	0.010	16.7	50.0
Chloroethane	0.434	0.535	0.010	23.2	50.0
Trichlorofluoromethane	0.746	0.931	0.010	24.8	50.0
1,1-Dichloroethene	0.353	0.410	0.010	16.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.345	0.507	0.010	46.8	50.0
Acetone	0.066	0.059	0.010	-9.4	50.0
Carbon disulfide	1.224	1.362	0.010	11.3	50.0
Methyl acetate	0.166	0.139	0.010	-16.0	50.0
Methylene chloride	0.428	0.480	0.010	12.2	50.0
trans-1,2-Dichloroethene	0.389	0.429	0.010	10.3	50.0
Methyl tert-butyl ether	0.764	0.787	0.010	3.1	50.0
1,1-Dichloroethane	0.636	0.698	0.010	9.8	50.0
cis-1,2-Dichloroethene	0.403	0.441	0.010	9.6	50.0
2-Butanone	0.100	0.103	0.010	2.7	50.0
Bromochloromethane	0.179	0.191	0.010	6.8	50.0
Chloroform	0.596	0.659	0.010	10.7	50.0
1,1,1-Trichloroethane	0.534	0.531	0.010	-0.5	50.0
Cyclohexane	0.684	0.876	0.010	28.1	50.0
Carbon tetrachloride	0.412	0.287	0.010	-30.4	50.0
Benzene	1.666	1.910	0.010	14.6	50.0
1,2-Dichloroethane	0.370	0.415	0.010	12.1	50.0
Trichloroethene	0.407	0.469	0.010	15.4	50.0
Methylcyclohexane	0.747	0.898	0.010	20.2	50.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/13/2010 Time: 0326

Lab File ID: C2591.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00506 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.385	0.445	0.010	15.5	50.0
Bromodichloromethane	0.408	0.372	0.010	-8.7	50.0
cis-1,3-Dichloropropene	0.547	0.495	0.010	-9.4	50.0
4-Methyl-2-pentanone	0.247	0.279	0.010	12.8	50.0
Toluene	1.850	2.043	0.010	10.4	50.0
trans-1,3-Dichloropropene	0.444	0.334	0.010	-24.8	50.0
1,1,2-Trichloroethane	0.273	0.305	0.010	11.9	50.0
Tetrachloroethene	0.403	0.416	0.010	3.3	50.0
2-Hexanone	0.177	0.187	0.010	5.2	50.0
Dibromochloromethane	0.269	0.174	0.010	-35.3	50.0
1,2-Dibromoethane	0.264	0.272	0.010	3.1	50.0
Chlorobenzene	1.250	1.276	0.010	2.1	50.0
Ethylbenzene	2.040	2.121	0.010	4.0	50.0
o-Xylene	0.803	0.827	0.010	2.9	50.0
m,p-Xylene	0.836	0.862	0.010	3.1	50.0
Styrene	1.124	1.158	0.010	3.1	50.0
Bromoform	0.253	0.130	0.010	-48.6	50.0
Isopropylbenzene	2.069	2.173	0.010	5.0	50.0
1,1,2,2-Tetrachloroethane	0.319	0.337	0.010	5.7	50.0
1,3-Dichlorobenzene	1.933	1.919	0.010	-0.7	50.0
1,4-Dichlorobenzene	1.975	1.990	0.010	0.8	50.0
1,2-Dichlorobenzene	1.757	1.827	0.010	4.0	50.0
1,2-Dibromo-3-chloropropane	0.072	0.046	0.010	-36.0	50.0
1,2,4-Trichlorobenzene	0.911	0.955	0.010	4.9	50.0
1,2,3-Trichlorobenzene	0.785	0.823	0.010	4.8	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/13/2010 Time: 0326

Lab File ID: C2591.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00506 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.573	0.691	0.010	20.5	50.0
Chloroethane-d5	0.483	0.611	0.010	26.6	50.0
1,1-Dichloroethene-d2	0.670	0.824	0.010	23.0	50.0
2-Butanone-d5	0.027	0.024	0.010	-8.9	50.0
Chloroform-d	0.603	0.673	0.010	11.6	50.0
1,2-Dichloroethane-d4	0.298	0.347	0.010	16.5	50.0
Benzene-d6	1.514	1.785	0.010	17.9	50.0
1,2-Dichloropropane-d6	0.444	0.473	0.010	6.6	50.0
Toluene-d8	1.458	1.604	0.010	10.0	50.0
trans-1,3-Dichloropropene-d4	0.405	0.315	0.010	-22.1	50.0
2-Hexanone-d5	0.024	0.021	0.010	-11.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.322	0.352	0.010	9.3	50.0
1,2-Dichlorobenzene-d4	1.050	1.095	0.010	4.3	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2591.D
Acq On : 13 Mar 2010 3:26
Sample : 0C12001-CCV2
Misc : VSTD00506 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:42:44 2010

Vial: 31
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.38	114	108349	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	92499	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	51243	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.21	65	74876	6.0266 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 120.53%		
7) Chloroethane-d5	2.60	69	66230	6.3307 ug/L	-0.02
Spiked Amount 5.0000	Range 71 - 131		Recovery = 126.61%		
10) 1,1-Dichloroethene-d2	3.33	63	89331	6.1516 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 123.03%#		
20) 2-Butanone-d5	4.94	46	26486	45.5617 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 91.12%		
24) Chloroform-d	5.32	84	72901	5.5810 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 111.62%		
26) 1,2-Dichloroethane-d4	5.89	65	37577	5.8234 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 116.47%		
32) Benzene-d6	5.93	84	165105	5.8952 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 117.90%		
35) 1,2-Dichloropropane-d6	6.88	67	43731	5.3283 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 106.57%		
41) Toluene-d8	8.29	98	148410	5.5019 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 110.04%		
43) trans-1,3-Dichloropropene-	8.62	79	29160	3.8945 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 77.89%		
47) 2-Hexanone-d5	9.21	63	19797	44.2152 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 88.43%		
57) 1,1,2,2-Tetrachloroethane-	12.14	84	32515	5.4631 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 109.26%		
63) 1,2-Dichlorobenzene-d4	13.59	152	56120	5.2153 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 104.31%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.91	85	62234	6.2829 ug/L	99
3) Chloromethane	2.11	50	96617	5.4753 ug/L #	100
5) Vinyl Chloride	2.22	62	90711	5.8979 ug/L	96
6) Bromomethane	2.54	94	61867	5.8347 ug/L	100
8) Chloroethane	2.63	64	57946	6.1619 ug/L	98
9) Trichlorofluoromethane	2.87	101	100843	6.2408 ug/L	99
11) 1,1-Dichloroethene	3.35	96	44419	5.7996 ug/L	98
12) 1,1,2-Trichloro-1,2,2-trif	3.33	101	54922	7.3390 ug/L #	79
13) Acetone	3.36	43	64292	45.2873 ug/L	98
14) Carbon Disulfide	3.57	76	147582	5.5643 ug/L	99
15) Methyl Acetate	3.66	43	15082	4.1998 ug/L	94
16) Methylene Chloride	3.77	84	52045	5.6094 ug/L	96
17) trans-1,2-Dichloroethene	4.04	96	46447	5.5135 ug/L	98
18) Methyl tert-Butyl Ether	4.03	73	85312	5.1551 ug/L	99
19) 1,1-Dichloroethane	4.44	63	75661	5.4918 ug/L	99
21) cis-1,2-Dichloroethene	5.02	96	47825	5.4779 ug/L	99
22) 2-Butanone	5.01	43	111552	51.3739 ug/L	97
23) Bromochloromethane	5.27	128	20704	5.3386 ug/L	98

(#) = qualifier out of range (m) = manual integration

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Episode: 0011765 Int./Date: 3/15/10

00000240

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2591.D Vial: 31
Acq On : 13 Mar 2010 3:26 Operator: SP
Sample : 0C12001-CCV2 Inst : C-5973
Misc : VSTD00506 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:42:44 2010 Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.34	83	71399	5.5327 ug/L	98
27)	1,2-Dichloroethane	5.97	62	44915	5.6030 ug/L	99
29)	1,1,1-Trichloroethane	5.57	97	49152	4.9769 ug/L	97
30)	Cyclohexane	5.65	56	81036	6.4071 ug/L	95
31)	Carbon Tetrachloride	5.76	117	26540	3.4797 ug/L	97
33)	Benzene	5.98	78	176636	5.7304 ug/L	100
34)	Trichloroethene	6.72	95	43423	5.7723 ug/L	95
36)	Methylcyclohexane	6.98	83	83060	6.0097 ug/L	99
37)	1,2-Dichloropropane	6.99	63	41123	5.7762 ug/L	100
38)	Bromodichloromethane	7.32	83	34415	4.5633 ug/L	99
39)	cis-1,3-Dichloropropene	7.90	75	45777	4.5275 ug/L	96
40)	4-Methyl-2-Pentanone	8.09	43	258202	56.4233 ug/L	98
42)	Toluene	8.38	91	188964	5.5222 ug/L	98
44)	trans-1,3-Dichloropropene	8.66	75	30914	3.7613 ug/L	99
45)	1,1,2-Trichloroethane	8.93	97	28229	5.5946 ug/L	99
46)	Tetrachloroethene	9.18	164	38511	5.1631 ug/L	97
48)	2-Hexanone	9.28	43	172577	52.5867 ug/L	97
49)	Dibromochloromethane	9.51	129	16119	3.2333 ug/L	95
50)	1,2-Dibromoethane	9.69	107	25122	5.1533 ug/L	98
51)	Chlorobenzene	10.45	112	117986	5.1041 ug/L	98
52)	Ethylbenzene	10.63	91	196228	5.1994 ug/L	99
53)	m,p-Xylene	10.81	106	79777	5.1568 ug/L	100
54)	o-Xylene	11.37	106	76458	5.1446 ug/L	100
55)	Styrene	11.39	104	107146	5.1544 ug/L	99
56)	Isopropylbenzene	11.84	105	201040	5.2513 ug/L	100
58)	1,1,2,2-Tetrachloroethane	12.17	83	31206	5.2858 ug/L	100
60)	Bromoform	11.61	173	6675	2.5695 ug/L	99
61)	1,3-Dichlorobenzene	13.18	146	98353	4.9645 ug/L	98
62)	1,4-Dichlorobenzene	13.27	146	101988	5.0384 ug/L	99
64)	1,2-Dichlorobenzene	13.61	146	93638	5.1995 ug/L	99
65)	1,2-Dibromo-3-chloropropan	14.27	75	2366	3.2020 ug/L	93
66)	1,2,4-Trichlorobenzene	15.00	180	48954	5.2451 ug/L	98
67)	1,2,3-Trichlorobenzene	15.48	180	42151	5.2421 ug/L	98

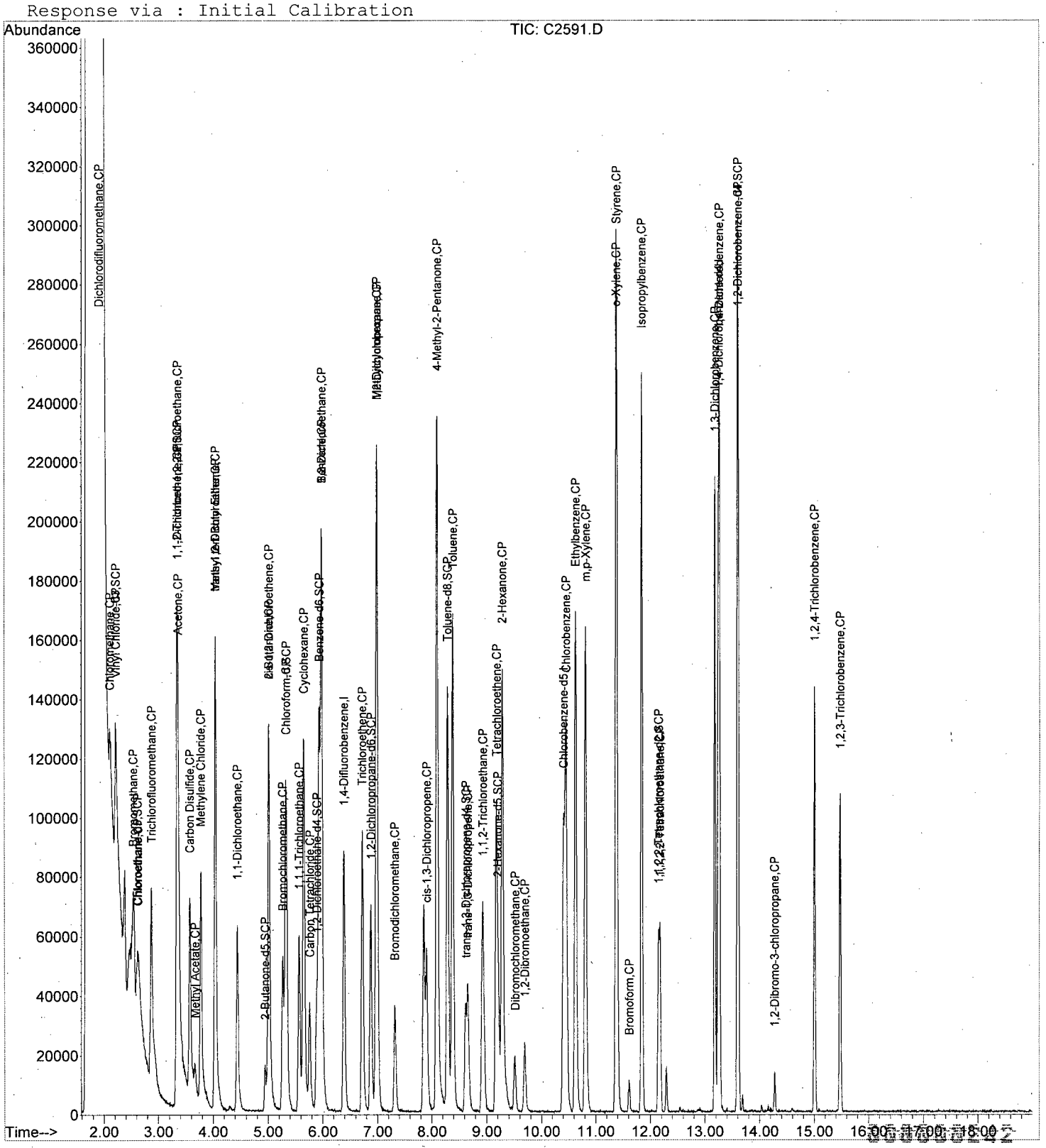
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2591.D
Acq On : 13 Mar 2010 3:26
Sample : 0C12001-CCV2
Misc : VSTD00506 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:42 2010

Vial: 31
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\C2591.D
Acq On : 13 Mar 2010 3:26
Sample : 0C12001-CCV2
Misc : VSTD00506 25ML
MS Integration Params: RTEINT.P

Vial: 31
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

3/15/10

3/15/10

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Difluorobenzene	1.00000	1.00000	0.00	52	0.00
2	CP	Dichlorodifluoromethane	0.45710	0.57438	25.66	64	-0.02
3	CP	Chloromethane	0.81431	0.89172	9.51	62	-0.10
4	SCP	Vinyl Chloride-d3	0.57335	0.69106	20.53	61	-0.02
5	CP	Vinyl Chloride	0.70975	0.83721	17.96	64	-0.02
6	CP	Bromomethane	0.48931	0.57100	16.69	69	-0.02
7	SCP	Chloroethane-d5	0.48278	0.61127	26.61	66	-0.02
8	CP	Chloroethane	0.43396	0.53481	23.24	66	-0.01
9	CP	Trichlorofluoromethane	0.74567	0.93072	24.82	68	-0.02
10	SCP	1,1-Dichloroethene-d2	0.67013	0.82447	23.03	62	-0.02
11	CP	1,1-Dichloroethene	0.35344	0.40996	15.99	61	0.00
12	CP	1,1,2-Trichloro-1,2,2-trifl	0.34535	0.50690	46.78#	82	-0.03
13	CP	Acetone	0.06551	0.05934	-9.43	45#	-0.02
14	CP	Carbon Disulfide	1.22396	1.36210	11.29	60	-0.02
15	CP	Methyl Acetate	0.16572	0.13920	-16.00	49#	-0.02
16	CP	Methylene Chloride	0.42816	0.48035	12.19	66	-0.02
17	CP	trans-1,2-Dichloroethene	0.38876	0.42868	10.27	60	0.00
18	CP	Methyl tert-Butyl Ether	0.76369	0.78738	3.10	59	0.00
19	CP	1,1-Dichloroethane	0.63577	0.69831	9.84	62	0.00
20	SCP	2-Butanone-d5	0.02683	0.02445	-8.88	50#	0.00
21	CP	cis-1,2-Dichloroethene	0.40289	0.44140	9.56	60	0.00
22	CP	2-Butanone	0.10020	0.10296	2.75	55	0.00
23	CP	Bromochloromethane	0.17897	0.19109	6.77	63	0.00
24	SCP	Chloroform-d	0.60279	0.67284	11.62	58	0.00
25	CP	Chloroform	0.59553	0.65897	10.65	62	0.00
26	SCP	1,2-Dichloroethane-d4	0.29778	0.34681	16.47	60	0.00
27	CP	1,2-Dichloroethane	0.36992	0.41454	12.06	63	0.00
28	I	Chlorobenzene-d5	1.00000	1.00000	0.00	49#	0.00
29	CP	1,1,1-Trichloroethane	0.53385	0.53138	-0.46	51	-0.01
30	CP	Cyclohexane	0.68367	0.87607	28.14	65	0.00
31	CP	Carbon Tetrachloride	0.41228	0.28692	-30.41#	35#	0.00
32	SCP	Benzene-d6	1.51389	1.78494	17.90	56	0.00
33	CP	Benzene	1.66620	1.90960	14.61	59	0.00
34	CP	Trichloroethene	0.40664	0.46944	15.45	59	-0.01
35	SCP	1,2-Dichloropropane-d6	0.44364	0.47277	6.57	49#	0.00
36	CP	Methylcyclohexane	0.74709	0.89796	20.19	62	0.00
37	CP	1,2-Dichloropropane	0.38483	0.44458	15.52	61	0.00
38	CP	Bromodichloromethane	0.40766	0.37206	-8.73	48#	0.00
39	CP	cis-1,3-Dichloropropene	0.54654	0.49489	-9.45	46#	0.00
40	CP	4-Methyl-2-Pentanone	0.24736	0.27914	12.85	61	0.00
41	SCP	Toluene-d8	1.45808	1.60445	10.04	53	0.00
42	CP	Toluene	1.84968	2.04288	10.44	58	0.00
43	SCP	trans-1,3-Dichloropropene-d	0.40473	0.31525	-22.11	37#	0.00
44	CP	trans-1,3-Dichloropropene	0.44428	0.33421	-24.77	39#	0.00
45	CP	1,1,2-Trichloroethane	0.27275	0.30518	11.89	61	0.00
46	CP	Tetrachloroethene	0.40319	0.41634	3.26	54	0.00
47	SCP	2-Hexanone-d5	0.02420	0.02140	-11.57	44#	0.00
48	CP	2-Hexanone	0.17739	0.18657	5.17	58	0.00
49	CP	Dibromochloromethane	0.26948	0.17426	-35.33#	34#	0.00
50	CP	1,2-Dibromoethane	0.26351	0.27159	3.07	54	0.00
51	CP	Chlorobenzene	1.24952	1.27554	2.08	54	0.00
52	CP	Ethylbenzene	2.04006	2.12141	3.99	54	0.00
53	CP	m,p-Xylene	0.83623	0.86246	3.14	54	0.00

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54	CP	o-Xylene	0.80335	0.82658	2.89	55	0.00
55	CP	Styrene	1.12365	1.15835	3.09	54	0.00
56	CP	Isopropylbenzene	2.06944	2.17343	5.03	55	0.00
57	SCP	1,1,2,2-Tetrachloroethane-d	0.32172	0.35152	9.26	54	0.00
58	CP	1,1,2,2-Tetrachloroethane	0.31912	0.33737	5.72	56	0.00
59	I	1,4-Dichlorobenzene-d4	1.00000	1.00000	0.00	50#	0.00
60	CP	Bromoform	0.25348	0.13026	-48.61#	27#	0.00
61	CP	1,3-Dichlorobenzene	1.93308	1.91935	-0.71	53	0.00
62	CP	1,4-Dichlorobenzene	1.97513	1.99028	0.77	55	0.00
63	SCP	1,2-Dichlorobenzene-d4	1.04997	1.09517	4.31	52	0.00
64	CP	1,2-Dichlorobenzene	1.75722	1.82733	3.99	57	0.00
65	CP	1,2-Dibromo-3-chloropropane	0.07210	0.04617	-35.96	33#	0.00
66	CP	1,2,4-Trichlorobenzene	0.91069	0.95533	4.90	61	0.00
67	CP	1,2,3-Trichlorobenzene	0.78458	0.82257	4.84	65	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 4

C2570.D SOTC2570.M Mon Mar 15 15:12:10 2010

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/15/2010 Time: 1141

Lab File ID: C2594.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00507 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.457	0.522	0.010	14.2	40.0
Chloromethane	0.814	0.780	0.010	-4.2	40.0
Vinyl chloride	0.710	0.722	0.100	1.7	30.0
Bromomethane	0.489	0.438	0.100	-10.5	30.0
Chloroethane	0.434	0.433	0.010	-0.2	40.0
Trichlorofluoromethane	0.746	0.757	0.010	1.6	40.0
1,1-Dichloroethene	0.353	0.353	0.100	-0.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.345	0.320	0.010	-7.4	40.0
Acetone	0.066	0.054	0.010	-18.1	40.0
Carbon disulfide	1.224	1.197	0.010	-2.2	40.0
Methyl acetate	0.166	0.156	0.010	-5.9	40.0
Methylene chloride	0.428	0.331	0.010	-22.6	40.0
trans-1,2-Dichloroethene	0.389	0.375	0.010	-3.5	40.0
Methyl tert-butyl ether	0.764	0.651	0.010	-14.8	40.0
1,1-Dichloroethane	0.636	0.573	0.200	-9.9	30.0
cis-1,2-Dichloroethene	0.403	0.361	0.010	-10.4	40.0
2-Butanone	0.100	0.089	0.010	-10.8	40.0
Bromochloromethane	0.179	0.153	0.050	-14.5	30.0
Chloroform	0.596	0.534	0.200	-10.4	30.0
1,1,1-Trichloroethane	0.534	0.515	0.100	-3.6	30.0
Cyclohexane	0.684	0.715	0.010	4.6	40.0
Carbon tetrachloride	0.412	0.366	0.100	-11.3	30.0
Benzene	1.666	1.572	0.400	-5.7	30.0
1,2-Dichloroethane	0.370	0.335	0.100	-9.4	30.0
Trichloroethene	0.407	0.396	0.300	-2.6	30.0
Methylcyclohexane	0.747	0.762	0.010	2.0	40.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: . SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/15/2010 Time: 1141

Lab File ID: C2594.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00507 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.385	0.344	0.010	-10.5	40.0
Bromodichloromethane	0.408	0.356	0.200	-12.6	30.0
cis-1,3-Dichloropropene	0.547	0.483	0.200	-11.7	30.0
4-Methyl-2-pentanone	0.247	0.221	0.010	-10.5	40.0
Toluene	1.850	1.704	0.400	-7.9	30.0
trans-1,3-Dichloropropene	0.444	0.385	0.100	-13.3	30.0
1,1,2-Trichloroethane	0.273	0.248	0.100	-9.0	30.0
Tetrachloroethene	0.403	0.375	0.100	-6.9	30.0
2-Hexanone	0.177	0.154	0.010	-13.4	40.0
Dibromochloromethane	0.269	0.226	0.100	-16.2	30.0
1,2-Dibromoethane	0.264	0.246	0.010	-6.6	40.0
Chlorobenzene	1.250	1.086	0.500	-13.1	30.0
Ethylbenzene	2.040	1.822	0.100	-10.7	30.0
o-Xylene	0.803	0.708	0.300	-11.9	30.0
m,p-Xylene	0.836	0.737	0.300	-11.8	30.0
Styrene	1.124	0.987	0.300	-12.2	30.0
Bromoform	0.253	0.208	0.050	-17.9	30.0
Isopropylbenzene	2.069	1.870	0.010	-9.6	40.0
1,1,2,2-Tetrachloroethane	0.319	0.291	0.100	-8.9	30.0
1,3-Dichlorobenzene	1.933	1.604	0.400	-17.0	30.0
1,4-Dichlorobenzene	1.975	1.628	0.400	-17.6	30.0
1,2-Dichlorobenzene	1.757	1.459	0.400	-17.0	30.0
1,2-Dibromo-3-chloropropane	0.072	0.067	0.010	-7.7	40.0
1,2,4-Trichlorobenzene	0.911	0.678	0.200	-25.5	30.0
1,2,3-Trichlorobenzene	0.785	0.543	0.200	-30.8	30.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/15/2010 Time: 1141

Lab File ID: C2594.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00507 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.573	0.614	0.010	7.1	30.0
Chloroethane-d5	0.483	0.481	0.010	-0.4	40.0
1,1-Dichloroethene-d2	0.670	0.691	0.010	3.0	30.0
2-Butanone-d5	0.027	0.026	0.010	-4.1	40.0
Chloroform-d	0.603	0.546	0.010	-9.4	30.0
1,2-Dichloroethane-d4	0.298	0.270	0.010	-9.2	30.0
Benzene-d6	1.514	1.438	0.010	-5.0	30.0
1,2-Dichloropropane-d6	0.444	0.431	0.010	-2.9	40.0
Toluene-d8	1.458	1.346	0.010	-7.7	30.0
trans-1,3-Dichloropropene-d4	0.405	0.361	0.010	-10.9	30.0
2-Hexanone-d5	0.024	0.023	0.010	-5.3	40.0
1,1,2,2-Tetrachloroethane-d2	0.322	0.288	0.010	-10.6	30.0
1,2-Dichlorobenzene-d4	1.050	0.893	0.010	-14.9	30.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2594.D
Acq On : 15 Mar 2010 11:41
Sample : 0C15005-CCV1
Misc : VSTD00507 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:03:36 2010

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2594.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10
3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	206303	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	182975	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	101675	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.25	65	126649	5.3536 ug/L	0.01
Spiked Amount 5.0000	Range 65 - 131		Recovery = 107.07%		
7) Chloroethane-d5	2.62	69	99185	4.9792 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 99.58%		
10) 1,1-Dichloroethene-d2	3.35	63	142461	5.1523 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 103.05%		
20) 2-Butanone-d5	4.95	46	53067	47.9433 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 95.89%		
24) Chloroform-d	5.33	84	112708	4.5316 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 90.63%		
26) 1,2-Dichloroethane-d4	5.90	65	55799	4.5415 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 90.83%		
32) Benzene-d6	5.94	84	263120	4.7494 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 94.99%		
35) 1,2-Dichloropropane-d6	6.88	67	78856	4.8571 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 97.14%		
41) Toluene-d8	8.29	98	246241	4.6149 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 92.30%		
43) trans-1,3-Dichloropropene-	8.62	79	66011	4.4568 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 89.14%		
47) 2-Hexanone-d5	9.21	63	41918	47.3280 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 94.66%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	52606	4.4683 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 89.37%		
63) 1,2-Dichlorobenzene-d4	13.59	152	90802	4.2528 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 85.06%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.94	85	107656	5.7081 ug/L	92
3) Chloromethane	2.21	50	160905	4.7890 ug/L #	100
5) Vinyl Chloride	2.25	62	148931	5.0856 ug/L	97
6) Bromomethane	2.57	94	90322	4.4737 ug/L	100
8) Chloroethane	2.65	64	89347	4.9899 ug/L #	45
9) Trichlorofluoromethane	2.88	101	156265	5.0790 ug/L	99
11) 1,1-Dichloroethene	3.36	96	72818	4.9933 ug/L	99
12) 1,1,2-Trichloro-1,2,2-trif	3.36	101	65944	4.6279 ug/L	95
13) Acetone	3.38	43	110648	40.9339 ug/L	99
14) Carbon Disulfide	3.59	76	247011	4.8912 ug/L	100
15) Methyl Acetate	3.68	43	32177	4.7058 ug/L	98
16) Methylene Chloride	3.79	84	68347	3.8688 ug/L	93
17) trans-1,2-Dichloroethene	4.05	96	77375	4.8238 ug/L	99
18) Methyl tert-Butyl Ether	4.04	73	134277	4.2614 ug/L	99
19) 1,1-Dichloroethane	4.45	63	118193	4.5057 ug/L	99
21) cis-1,2-Dichloroethene	5.02	96	74460	4.4792 ug/L	99
22) 2-Butanone	5.01	43	184491	44.6231 ug/L	98
23) Bromochloromethane	5.27	128	31550	4.2726 ug/L	100

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Episode: 0011765 Int./Date: ch 3/15/10

00000240

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2594.D
Acq On : 15 Mar 2010 11:41
Sample : 0C15005-CCV1
Misc : VSTD00507 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:03:36 2010

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2594.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.34	83	110099	4.4807 ug/L	98
27)	1,2-Dichloroethane	5.98	62	69169	4.5317 ug/L	100
29)	1,1,1-Trichloroethane	5.58	97	94188	4.8212 ug/L	100
30)	Cyclohexane	5.66	56	130841	5.2297 ug/L	97
31)	Carbon Tetrachloride	5.77	117	66885	4.4332 ug/L	98
33)	Benzene	5.98	78	287647	4.7175 ug/L	100
34)	Trichloroethene	6.73	95	72471	4.8701 ug/L	94
36)	Methylcyclohexane	6.99	83	139366	5.0976 ug/L	100
37)	1,2-Dichloropropane	7.00	63	63013	4.4744 ug/L	99
38)	Bromodichloromethane	7.32	83	65195	4.3701 ug/L	100
39)	cis-1,3-Dichloropropene	7.91	75	88350	4.4174 ug/L	95
40)	4-Methyl-2-Pentanone	8.10	43	405148	44.7567 ug/L	99
42)	Toluene	8.39	91	311703	4.6049 ug/L	99
44)	trans-1,3-Dichloropropene	8.66	75	70444	4.3328 ug/L	98
45)	1,1,2-Trichloroethane	8.93	97	45391	4.5476 ug/L	97
46)	Tetrachloroethene	9.18	164	68681	4.6548 ug/L	99
48)	2-Hexanone	9.28	43	281103	43.3016 ug/L	98
49)	Dibromochloromethane	9.51	129	41313	4.1892 ug/L	98
50)	1,2-Dibromoethane	9.69	107	45038	4.6704 ug/L	98
51)	Chlorobenzene	10.45	112	198755	4.3466 ug/L	99
52)	Ethylbenzene	10.63	91	333435	4.4663 ug/L	100
53)	m,p-Xylene	10.81	106	134921	4.4089 ug/L	100
54)	o-Xylene	11.38	106	129561	4.4070 ug/L	97
55)	Styrene	11.39	104	180518	4.3900 ug/L	100
56)	Isopropylbenzene	11.84	105	342130	4.5177 ug/L	100
58)	1,1,2,2-Tetrachloroethane	12.18	83	53168	4.5527 ug/L	99
60)	Bromoform	11.61	173	21160	4.1052 ug/L	98
61)	1,3-Dichlorobenzene	13.18	146	163072	4.1484 ug/L	99
62)	1,4-Dichlorobenzene	13.27	146	165501	4.1206 ug/L	99
64)	1,2-Dichlorobenzene	13.61	146	148317	4.1507 ug/L	100
65)	1,2-Dibromo-3-chloropropan	14.27	75	6764	4.6136 ug/L	92
66)	1,2,4-Trichlorobenzene	15.00	180	68947	3.7231 ug/L	99
67)	1,2,3-Trichlorobenzene	15.48	180	55227	3.4616 ug/L	99

00000245

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

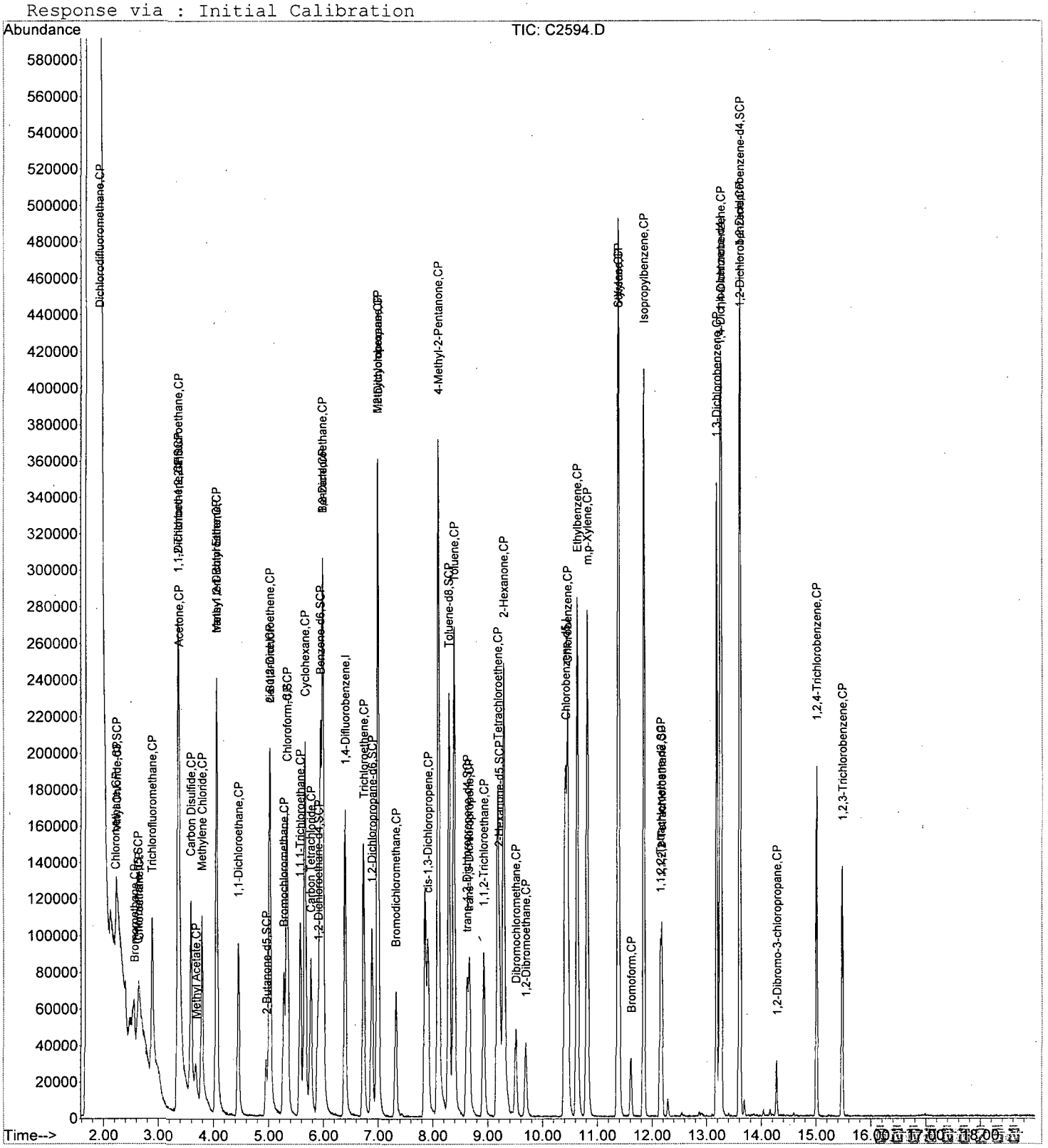
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2594.D
Acq On : 15 Mar 2010 11:41
Sample : 0C15005-CCV1
Misc : VSTD00507 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 12:03 2010

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2594.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\C2594.D
Acq On : 15 Mar 2010 11:41
Sample : 0C15005-CCV1
Misc : VSTD00507 25ML
MS Integration Params: RTEINT.P

Vial: 3
Operator: SP
Inst : C-5973
Multiplr: 1.00

3/15/10
3/15/10

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Difluorobenzene	1.00000	1.00000	0.00	99	0.00
2	CP	Dichlorodifluoromethane	0.45710	0.52183	14.16	111	0.00
3	CP	Chloromethane	0.81431	0.77995	-4.22	103	0.00
4	SCP	Vinyl Chloride-d3	0.57335	0.61390	7.07	103	0.00
5	CP	Vinyl Chloride	0.70975	0.72190	1.71	105	0.00
6	CP	Bromomethane	0.48931	0.43781	-10.53	101	0.00
7	SCP	Chloroethane-d5	0.48278	0.48077	-0.42	98	0.00
8	CP	Chloroethane	0.43396	0.43309	-0.20	102	0.00
9	CP	Trichlorofluoromethane	0.74567	0.75745	1.58	105	0.00
10	SCP	1,1-Dichloroethene-d2	0.67013	0.69054	3.05	99	0.00
11	CP	1,1-Dichloroethene	0.35344	0.35297	-0.13	100	0.00
12	CP	1,1,2-Trichloro-1,2,2-trifl	0.34535	0.31965	-7.44	98	0.00
13	CP	Acetone	0.06551	0.05363	-18.13	78	0.00
14	CP	Carbon Disulfide	1.22396	1.19732	-2.18	100	0.00
15	CP	Methyl Acetate	0.16572	0.15597	-5.88	104	0.00
16	CP	Methylene Chloride	0.42816	0.33129	-22.62	87	0.00
17	CP	trans-1,2-Dichloroethene	0.38876	0.37506	-3.52	100	0.00
18	CP	Methyl tert-Butyl Ether	0.76369	0.65087	-14.77	92	0.00
19	CP	1,1-Dichloroethane	0.63577	0.57291	-9.89	98	0.00
20	SCP	2-Butanone-d5	0.02683	0.02572	-4.11	99	0.00
21	CP	cis-1,2-Dichloroethene	0.40289	0.36093	-10.42	94	0.00
22	CP	2-Butanone	0.10020	0.08943	-10.75	91	0.00
23	CP	Bromochloromethane	0.17897	0.15293	-14.55	95	0.00
24	SCP	Chloroform-d	0.60279	0.54632	-9.37	89	0.00
25	CP	Chloroform	0.59553	0.53368	-10.39	96	0.00
26	SCP	1,2-Dichloroethane-d4	0.29778	0.27047	-9.17	88	0.00
27	CP	1,2-Dichloroethane	0.36992	0.33528	-9.37	97	0.00
28	I	Chlorobenzene-d5	1.00000	1.00000	0.00	97	0.00
29	CP	1,1,1-Trichloroethane	0.53385	0.51476	-3.58	98	0.00
30	CP	Cyclohexane	0.68367	0.71508	4.59	105	0.00
31	CP	Carbon Tetrachloride	0.41228	0.36554	-11.34	89	0.00
32	SCP	Benzene-d6	1.51389	1.43801	-5.01	89	0.00
33	CP	Benzene	1.66620	1.57206	-5.65	96	0.00
34	CP	Trichloroethene	0.40664	0.39607	-2.60	99	0.00
35	SCP	1,2-Dichloropropane-d6	0.44364	0.43097	-2.86	89	0.00
36	CP	Methylcyclohexane	0.74709	0.76167	1.95	104	0.00
37	CP	1,2-Dichloropropane	0.38483	0.34438	-10.51	93	0.00
38	CP	Bromodichloromethane	0.40766	0.35631	-12.60	91	0.00
39	CP	cis-1,3-Dichloropropene	0.54654	0.48285	-11.65	89	0.00
40	CP	4-Methyl-2-Pentanone	0.24736	0.22142	-10.49	95	0.00
41	SCP	Toluene-d8	1.45808	1.34576	-7.70	88	0.00
42	CP	Toluene	1.84968	1.70353	-7.90	96	0.00
43	SCP	trans-1,3-Dichloropropene-d	0.40473	0.36077	-10.86	83	0.00
44	CP	trans-1,3-Dichloropropene	0.44428	0.38499	-13.34	89	0.00
45	CP	1,1,2-Trichloroethane	0.27275	0.24807	-9.05	98	0.00
46	CP	Tetrachloroethene	0.40319	0.37536	-6.90	96	0.00
47	SCP	2-Hexanone-d5	0.02420	0.02291	-5.34	94	0.00
48	CP	2-Hexanone	0.17739	0.15363	-13.40	95	0.00
49	CP	Dibromochloromethane	0.26948	0.22578	-16.22	87	0.00
50	CP	1,2-Dibromoethane	0.26351	0.24614	-6.59	97	0.00
51	CP	Chlorobenzene	1.24952	1.08624	-13.07	91	0.00
52	CP	Ethylbenzene	2.04006	1.82230	-10.67	92	0.00
53	CP	m,p-Xylene	0.83623	0.73737	-11.82	92	0.00

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54	CP	o-Xylene	0.80335	0.70808	-11.86	93	0.00
55	CP	Styrene	1.12365	0.98657	-12.20	92	0.00
56	CP	Isopropylbenzene	2.06944	1.86982	-9.65	93	0.00
57	SCP	1,1,2,2-Tetrachloroethane-d	0.32172	0.28750	-10.63	88	0.00
58	CP	1,1,2,2-Tetrachloroethane	0.31912	0.29058	-8.95	96	0.00
59	I	1,4-Dichlorobenzene-d4	1.00000	1.00000	0.00	99	0.00
60	CP	Bromoform	0.25348	0.20811	-17.90	87	0.00
61	CP	1,3-Dichlorobenzene	1.93308	1.60386	-17.03	88	0.00
62	CP	1,4-Dichlorobenzene	1.97513	1.62775	-17.59	89	0.00
63	SCP	1,2-Dichlorobenzene-d4	1.04997	0.89306	-14.94	85	0.00
64	CP	1,2-Dichlorobenzene	1.75722	1.45874	-16.99	90	0.00
65	CP	1,2-Dibromo-3-chloropropane	0.07210	0.06653	-7.73	94	0.00
66	CP	1,2,4-Trichlorobenzene	0.91069	0.67811	-25.54	86	0.00
67	CP	1,2,3-Trichlorobenzene	0.78458	0.54317	-30.77#	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
C2594.D SOTC2594.M Mon Mar 15 15:12:58 2010

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/15/2010 Time: 1452

Lab File ID: C2600.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00508 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.457	0.450	0.010	-1.6	50.0
Chloromethane	0.814	0.676	0.010	-17.0	50.0
Vinyl chloride	0.710	0.632	0.010	-10.9	50.0
Bromomethane	0.489	0.405	0.010	-17.2	50.0
Chloroethane	0.434	0.399	0.010	-8.0	50.0
Trichlorofluoromethane	0.746	0.648	0.010	-13.1	50.0
1,1-Dichloroethene	0.353	0.320	0.010	-9.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.345	0.315	0.010	-8.8	50.0
Acetone	0.066	0.059	0.010	-9.6	50.0
Carbon disulfide	1.224	1.105	0.010	-9.7	50.0
Methyl acetate	0.166	0.139	0.010	-16.1	50.0
Methylene chloride	0.428	0.337	0.010	-21.3	50.0
trans-1,2-Dichloroethene	0.389	0.338	0.010	-12.9	50.0
Methyl tert-butyl ether	0.764	0.641	0.010	-16.1	50.0
1,1-Dichloroethane	0.636	0.536	0.010	-15.6	50.0
cis-1,2-Dichloroethene	0.403	0.344	0.010	-14.6	50.0
2-Butanone	0.100	0.094	0.010	-6.1	50.0
Bromochloromethane	0.179	0.149	0.010	-16.5	50.0
Chloroform	0.596	0.514	0.010	-13.6	50.0
1,1,1-Trichloroethane	0.534	0.449	0.010	-15.9	50.0
Cyclohexane	0.684	0.641	0.010	-6.3	50.0
Carbon tetrachloride	0.412	0.293	0.010	-28.9	50.0
Benzene	1.666	1.472	0.010	-11.7	50.0
1,2-Dichloroethane	0.370	0.333	0.010	-10.1	50.0
Trichloroethene	0.407	0.366	0.010	-9.9	50.0
Methylcyclohexane	0.747	0.672	0.010	-10.0	50.0

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

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/15/2010 Time: 1452

Lab File ID: C2600.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00508 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.385	0.338	0.010	-12.0	50.0
Bromodichloromethane	0.408	0.334	0.010	-18.1	50.0
cis-1,3-Dichloropropene	0.547	0.451	0.010	-17.4	50.0
4-Methyl-2-pentanone	0.247	0.228	0.010	-7.7	50.0
Toluene	1.850	1.599	0.010	-13.5	50.0
trans-1,3-Dichloropropene	0.444	0.357	0.010	-19.7	50.0
1,1,2-Trichloroethane	0.273	0.236	0.010	-13.3	50.0
Tetrachloroethene	0.403	0.349	0.010	-13.5	50.0
2-Hexanone	0.177	0.161	0.010	-9.1	50.0
Dibromochloromethane	0.269	0.201	0.010	-25.4	50.0
1,2-Dibromoethane	0.264	0.235	0.010	-10.9	50.0
Chlorobenzene	1.250	1.041	0.010	-16.7	50.0
Ethylbenzene	2.040	1.735	0.010	-15.0	50.0
o-Xylene	0.803	0.678	0.010	-15.6	50.0
m,p-Xylene	0.836	0.709	0.010	-15.3	50.0
Styrene	1.124	0.961	0.010	-14.5	50.0
Bromoform	0.253	0.179	0.010	-29.3	50.0
Isopropylbenzene	2.069	1.770	0.010	-14.5	50.0
1,1,2,2-Tetrachloroethane	0.319	0.289	0.010	-9.4	50.0
1,3-Dichlorobenzene	1.933	1.580	0.010	-18.2	50.0
1,4-Dichlorobenzene	1.975	1.589	0.010	-19.6	50.0
1,2-Dichlorobenzene	1.757	1.485	0.010	-15.5	50.0
1,2-Dibromo-3-chloropropane	0.072	0.056	0.010	-22.5	50.0
1,2,4-Trichlorobenzene	0.911	0.670	0.010	-26.4	50.0
1,2,3-Trichlorobenzene	0.785	0.549	0.010	-30.0	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: _____ SDG No.: F3FY1

Instrument ID: C-5973 Calibration Date: 03/15/2010 Time: 1452

Lab File ID: C2600.D Init. Calib. Date(s): 03/12/2010 03/12/2010

EPA Sample No.(VSTD#####): VSTD00508 Init. Calib. Time(s): 0916 1105

Heated Purge: (Y/N) N GC Column: DB-624 ID: 0.20 (mm) Length: 25 (m)

Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.573	0.580	0.010	1.1	50.0
Chloroethane-d5	0.483	0.483	0.010	-0.1	50.0
1,1-Dichloroethene-d2	0.670	0.688	0.010	2.7	50.0
2-Butanone-d5	0.027	0.028	0.010	2.7	50.0
Chloroform-d	0.603	0.549	0.010	-9.0	50.0
1,2-Dichloroethane-d4	0.298	0.285	0.010	-4.4	50.0
Benzene-d6	1.514	1.424	0.010	-5.9	50.0
1,2-Dichloropropane-d6	0.444	0.431	0.010	-2.8	50.0
Toluene-d8	1.458	1.345	0.010	-7.8	50.0
trans-1,3-Dichloropropene-d4	0.405	0.330	0.010	-18.6	50.0
2-Hexanone-d5	0.024	0.025	0.010	1.6	50.0
1,1,2,2-Tetrachloroethane-d2	0.322	0.294	0.010	-8.7	50.0
1,2-Dichlorobenzene-d4	1.050	0.917	0.010	-12.7	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2600.D
Acq On : 15 Mar 2010 14:52
Sample : 0C15005-CCV2
Misc : VSTD00508 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:16:25 2010

Vial: 9
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2600.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2600.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Chloroform	5.35	83	101309	4.3186 ug/L	97
27)	1,2-Dichloroethane	5.98	62	65494	4.4945 ug/L	100
29)	1,1,1-Trichloroethane	5.57	97	78471	4.2056 ug/L	99
30)	Cyclohexane	5.66	56	111960	4.6855 ug/L	98
31)	Carbon Tetrachloride	5.77	117	51191	3.5525 ug/L	97
33)	Benzene	5.98	78	257215	4.4168 ug/L	100
34)	Trichloroethene	6.73	95	63997	4.5029 ug/L	97
36)	Methylcyclohexane	6.99	83	117521	4.5007 ug/L	97
37)	1,2-Dichloropropane	6.99	63	59152	4.3977 ug/L	97
38)	Bromodichloromethane	7.32	83	58315	4.0928 ug/L	97
39)	cis-1,3-Dichloropropene	7.91	75	78899	4.1303 ug/L	95
40)	4-Methyl-2-Pentanone	8.10	43	398902	46.1389 ug/L	99
42)	Toluene	8.38	91	279485	4.3231 ug/L	99
44)	trans-1,3-Dichloropropene	8.66	75	62331	4.0141 ug/L	99
45)	1,1,2-Trichloroethane	8.92	97	41305	4.3329 ug/L	99
46)	Tetrachloroethene	9.18	164	60982	4.3274 ug/L	98
48)	2-Hexanone	9.28	43	281897	45.4659 ug/L	98
49)	Dibromochloromethane	9.51	129	35130	3.7298 ug/L	97
50)	1,2-Dibromoethane	9.69	107	41047	4.4567 ug/L	96
51)	Chlorobenzene	10.46	112	181840	4.1637 ug/L	99
52)	Ethylbenzene	10.63	91	303129	4.2513 ug/L	99
53)	m,p-Xylene	10.81	106	123843	4.2372 ug/L	98
54)	o-Xylene	11.37	106	118449	4.2185 ug/L	98
55)	Styrene	11.39	104	167885	4.2748 ug/L	99
56)	Isopropylbenzene	11.84	105	309234	4.2753 ug/L	99
58)	1,1,2,2-Tetrachloroethane	12.17	83	50505	4.5280 ug/L	99
60)	Bromoform	11.61	173	17592	3.5344 ug/L	95
61)	1,3-Dichlorobenzene	13.18	146	155154	4.0875 ug/L	99
62)	1,4-Dichlorobenzene	13.27	146	155988	4.0220 ug/L	98
64)	1,2-Dichlorobenzene	13.61	146	145765	4.2245 ug/L	98
65)	1,2-Dibromo-3-chloropropan	14.28	75	5488	3.8765 ug/L	92
66)	1,2,4-Trichlorobenzene	15.01	180	65797	3.6794 ug/L	100
67)	1,2,3-Trichlorobenzene	15.48	180	53942	3.5014 ug/L	99

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

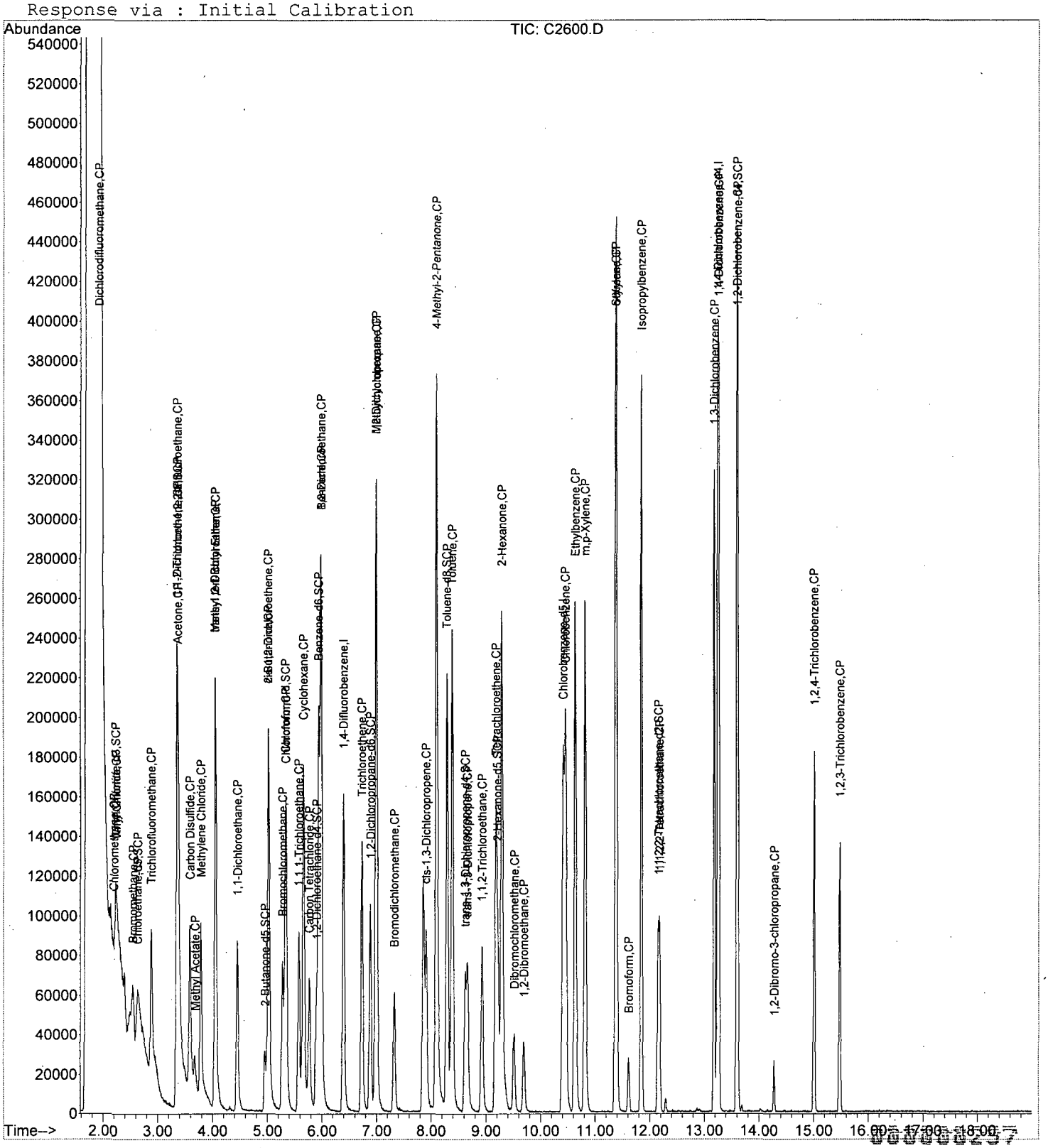
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2600.D
Acq On : 15 Mar 2010 14:52
Sample : 0C15005-CCV2
Misc : VSTD00508 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:16 2010

Vial: 9
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2600.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2600.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 15:16:37 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\C2600.D
Acq On : 15 Mar 2010 14:52
Sample : 0C15005-CCV2
Misc : VSTD00508 25ML
MS Integration Params: RTEINT.P

Vial: 9
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2600.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 15:16:37 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

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3/15/10

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Difluorobenzene	1.00000	1.00000	0.00	94	0.00
2	CP	Dichlorodifluoromethane	0.45710	0.44956	-1.65	91	0.00
3	CP	Chloromethane	0.81431	0.67616	-16.96	85	0.00
4	SCP	Vinyl Chloride-d3	0.57335	0.57981	1.13	93	0.00
5	CP	Vinyl Chloride	0.70975	0.63241	-10.90	88	0.00
6	CP	Bromomethane	0.48931	0.40504	-17.22	89	0.00
7	SCP	Chloroethane-d5	0.48278	0.48251	-0.06	94	0.00
8	CP	Chloroethane	0.43396	0.39934	-7.98	90	0.00
9	CP	Trichlorofluoromethane	0.74567	0.64835	-13.05	86	0.00
10	SCP	1,1-Dichloroethene-d2	0.67013	0.68813	2.69	95	0.00
11	CP	1,1-Dichloroethene	0.35344	0.31969	-9.55	87	0.00
12	CP	1,1,2-Trichloro-1,2,2-trifl	0.34535	0.31489	-8.82	92	0.00
13	CP	Acetone	0.06551	0.05924	-9.57	82	0.00
14	CP	Carbon Disulfide	1.22396	1.10521	-9.70	88	0.00
15	CP	Methyl Acetate	0.16572	0.13912	-16.05	88	0.00
16	CP	Methylene Chloride	0.42816	0.33685	-21.33	84	0.00
17	CP	trans-1,2-Dichloroethene	0.38876	0.33847	-12.93	86	0.00
18	CP	Methyl tert-Butyl Ether	0.76369	0.64053	-16.13	87	0.00
19	CP	1,1-Dichloroethane	0.63577	0.53641	-15.63	87	0.00
20	SCP	2-Butanone-d5	0.02683	0.02755	2.69	102	0.00
21	CP	cis-1,2-Dichloroethene	0.40289	0.34401	-14.61	86	0.00
22	CP	2-Butanone	0.10020	0.09408	-6.11	91	0.00
23	CP	Bromochloromethane	0.17897	0.14937	-16.54	89	0.00
24	SCP	Chloroform-d	0.60279	0.54858	-8.99	86	0.00
25	CP	Chloroform	0.59553	0.51437	-13.63	88	0.00
26	SCP	1,2-Dichloroethane-d4	0.29778	0.28475	-4.38	89	0.00
27	CP	1,2-Dichloroethane	0.36992	0.33253	-10.11	92	0.00
28	I	Chlorobenzene-d5	1.00000	1.00000	0.00	93	0.00
29	CP	1,1,1-Trichloroethane	0.53385	0.44903	-15.89	81	0.00
30	CP	Cyclohexane	0.68367	0.64066	-6.29	90	0.00
31	CP	Carbon Tetrachloride	0.41228	0.29293	-28.95	68	0.00
32	SCP	Benzene-d6	1.51389	1.42418	-5.93	85	0.00
33	CP	Benzene	1.66620	1.47184	-11.66	86	0.00
34	CP	Trichloroethene	0.40664	0.36621	-9.94	88	0.00
35	SCP	1,2-Dichloropropane-d6	0.44364	0.43134	-2.77	85	0.00
36	CP	Methylcyclohexane	0.74709	0.67248	-9.99	87	0.00
37	CP	1,2-Dichloropropane	0.38483	0.33848	-12.05	88	0.00
38	CP	Bromodichloromethane	0.40766	0.33369	-18.14	82	0.00
39	CP	cis-1,3-Dichloropropene	0.54654	0.45148	-17.39	79	0.00
40	CP	4-Methyl-2-Pentanone	0.24736	0.22826	-7.72	94	0.00
41	SCP	Toluene-d8	1.45808	1.34475	-7.77	84	0.00
42	CP	Toluene	1.84968	1.59928	-13.54	86	0.00
43	SCP	trans-1,3-Dichloropropene-d	0.40473	0.32951	-18.58	73	0.00
44	CP	trans-1,3-Dichloropropene	0.44428	0.35667	-19.72	78	0.00
45	CP	1,1,2-Trichloroethane	0.27275	0.23636	-13.34	89	0.00
46	CP	Tetrachloroethene	0.40319	0.34895	-13.45	86	0.00
47	SCP	2-Hexanone-d5	0.02420	0.02460	1.63	97	0.00
48	CP	2-Hexanone	0.17739	0.16131	-9.07	95	0.00
49	CP	Dibromochloromethane	0.26948	0.20102	-25.40	74	0.00
50	CP	1,2-Dibromoethane	0.26351	0.23488	-10.87	88	0.00
51	CP	Chlorobenzene	1.24952	1.04053	-16.73	84	0.00
52	CP	Ethylbenzene	2.04006	1.73457	-14.97	84	0.00
53	CP	m,p-Xylene	0.83623	0.70866	-15.26	84	0.00

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54	CP	o-Xylene	0.80335	0.67779	-15.63	85	0.00
55	CP	Styrene	1.12365	0.96068	-14.50	85	0.00
56	CP	Isopropylbenzene	2.06944	1.76951	-14.49	84	0.00
57	SCP	1,1,2,2-Tetrachloroethane-d	0.32172	0.29385	-8.66	85	0.00
58	CP	1,1,2,2-Tetrachloroethane	0.31912	0.28900	-9.44	91	0.00
59	I	1,4-Dichlorobenzene-d4	1.00000	1.00000	0.00	95	0.00
60	CP	Bromoform	0.25348	0.17918	-29.31	72	0.00
61	CP	1,3-Dichlorobenzene	1.93308	1.58030	-18.25	84	0.00
62	CP	1,4-Dichlorobenzene	1.97513	1.58880	-19.56	84	0.00
63	SCP	1,2-Dichlorobenzene-d4	1.04997	0.91710	-12.65	84	0.00
64	CP	1,2-Dichlorobenzene	1.75722	1.48467	-15.51	88	0.00
65	CP	1,2-Dibromo-3-chloropropane	0.07210	0.05590	-22.47	76	0.00
66	CP	1,2,4-Trichlorobenzene	0.91069	0.67017	-26.41	82	0.00
67	CP	1,2,3-Trichlorobenzene	0.78458	0.54942	-29.97	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C2600.D SOTC2600.M Mon Mar 15 15:16:55 2010

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2552.D
Acq On : 12 Mar 2010 8:43
Sample : 0C12001-TUN1
Misc : BFB04 50NG
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Vial: 36
Operator: SP
Inst : C-5973
Multiplr: 1.00

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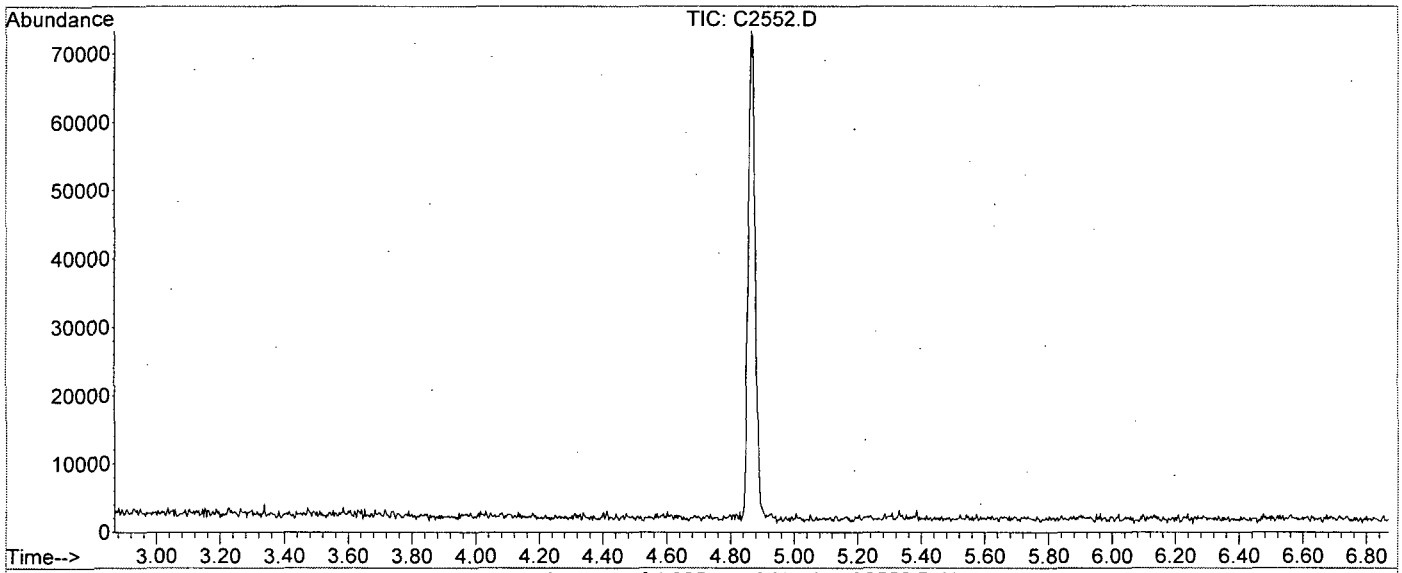
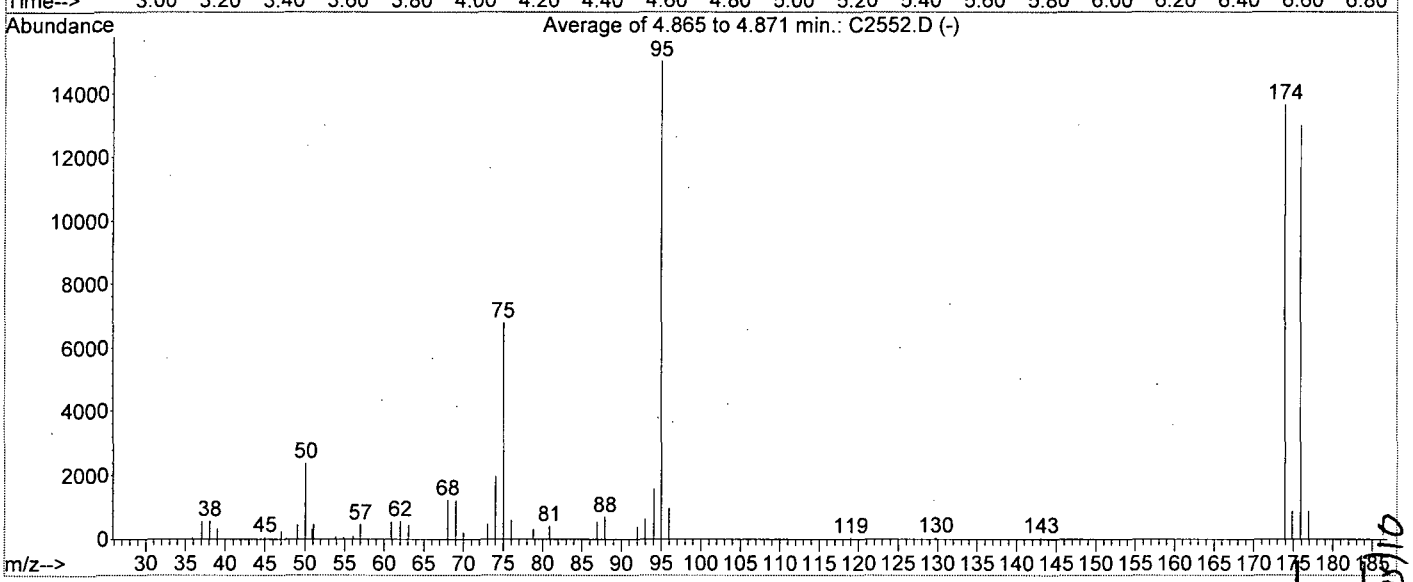
3/15/10





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AutoFind: Scans 1023, 1024, 1025; Background Corrected with Scan 1012

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	2385	PASS
75	95	30	60	45.2	6793	PASS
95	95	100	100	100.0	15031	PASS
96	95	5	9	6.4	968	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.9	13664	PASS
175	174	5	9	6.4	879	PASS
176	174	95	101	95.2	13006	PASS
177	176	5	9	6.7	865	PASS

ORIGINAL COPY
Case: 39551 SDG: E3FY1
Episode: 001765 Int./Date: CA 3/15/10

C2552.D SOTC2553.M Mon Mar 15 14:44:18 2010

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2552.D Vial: 36
Acq On : 12 Mar 2010 8:43 Operator: SP
Sample : 0C12001-TUN1 Inst : C-5973
Misc : BFB04 50NG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Scan 1024 (4.868 min): C2552.D
0C12001-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	483	62.00	608	87.00	571	176.90	756
38.00	471	63.10	363	87.90	690		
39.00	311	68.00	1181	92.00	373		
40.00	446	68.90	1270	93.00	763		
44.00	1457	70.00	160	94.00	1688		
47.10	324	73.00	366	95.00	16552		
49.00	399	74.00	2104	95.90	896		
50.10	2366	75.00	7328	119.00	152		
51.10	814	76.00	635	173.90	13955		
57.00	493	78.80	312	174.90	805		
60.90	594	80.80	379	175.90	13238		

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2552.D Vial: 36
Acq On : 12 Mar 2010 8:43 Operator: SP
Sample : 0C12001-TUN1 Inst : C-5973
Misc : BFB04 50NG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Scan 1023 (4.865 min): C2552.D
0C12001-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	160	53.90	213	75.00	7142	143.10	156
37.00	536	54.90	176	76.00	613	173.90	13797
38.10	719	57.00	545	78.70	212	174.80	951
39.00	369	60.90	550	80.90	434	175.90	12690
40.00	266	62.00	739	86.90	537	176.90	966
44.00	1111	63.00	487	87.90	909		
45.00	225	68.00	1251	92.00	464		
47.00	209	69.00	1483	93.00	541		
49.10	397	70.10	220	94.10	1122		
50.00	2423	73.00	522	95.00	15352		
50.90	909	74.00	1970	95.90	998		

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2552.D Vial: 36
Acq On : 12 Mar 2010 8:43 Operator: SP
Sample : 0C12001-TUN1 Inst : C-5973
Misc : BFB04 50NG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Scan 1025 (4.871 min): C2552.D
0C12001-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	608	60.90	445	80.90	413	175.90	13091
38.10	515	62.00	350	87.00	481	176.90	874
39.10	288	63.00	435	87.90	489	206.90	202
40.00	357	68.00	1253	92.00	310		
44.00	1703	69.10	823	92.90	575		
47.10	193	69.90	211	94.00	1871		
49.10	529	73.00	517	95.00	13190		
50.00	2368	74.00	1840	96.00	1012		
51.10	563	75.00	5909	129.80	157		
56.10	294	76.00	540	173.90	13241		
57.10	343	78.90	410	174.90	883		

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2552.D Vial: 36
Acq On : 12 Mar 2010 8:43 Operator: SP
Sample : 0C12001-TUN1 Inst : C-5973
Misc : BFB04 50NG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Scan 1012 (4.829 min): C2552.D
0C12001-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
40.00	493						
44.00	1841						
148.80	169						
197.40	186						
206.90	292						

Response Factor Report C-5973

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration

3/15/10 3/15/10

Calibration Files
1 =C2557.D 2 =C2556.D 3 =C2553.D
4 =C2555.D 5 =C2554.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	I	1,4-Difluorobenzene	----------ISTD----------						
2)	CP	Dichlorodifluoromet	0.54639	0.46352	0.46356	0.45002	0.36202	0.45710	14.324
3)	CP	Chloromethane	1.18770	0.84779	0.74900	0.69125	0.59579	0.81431	27.983
4)	SCP	Vinyl Chloride-d3	0.61446	0.64157	0.58518	0.52204	0.50348	0.57335	10.318
5)	CP	Vinyl Chloride	0.97353	0.70144	0.67653	0.65442	0.54285	0.70975	22.463
6)	CP	Bromomethane	0.72267	0.55232	0.42800	0.40873	0.33484	0.48931	31.085#
7)	SCP	Chloroethane-d5	0.51463	0.52608	0.48110	0.45021	0.44189	0.48278	7.767
8)	CP	Chloroethane	0.55495	0.44114	0.41675	0.40707	0.34992	0.43396	17.386
9)	CP	Trichlorofluorometh	0.98588	0.70800	0.71227	0.73761	0.58461	0.74567	19.691
10)	SCP	1,1-Dichloroethene-	0.65772	0.72014	0.68419	0.65181	0.63679	0.67013	4.892
11)	CP	1,1-Dichloroethene	0.43320	0.32966	0.34624	0.34979	0.30833	0.35344	13.441
12)	CP	1,1,2-Trichloro-1,2	0.46853	0.34219	0.32056	0.33276	0.26268	0.34535	21.857
13)	CP	Acetone	0.08722	0.06403	0.06765	0.04912	0.05955	0.06551	21.343
14)	CP	Carbon Disulfide	1.56523	1.20517	1.18235	1.14197	1.02509	1.22396	16.585
15)	CP	Methyl Acetate	0.22838	0.18830	0.14826	0.13267	0.13098	0.16572	25.315
16)	CP	Methylene Chloride	0.64623	0.45400	0.37735	0.33799	0.32523	0.42816	30.793
17)	CP	trans-1,2-Dichloroe	0.49917	0.39209	0.36957	0.36015	0.32281	0.38876	17.129
18)	CP	Methyl tert-Butyl E	0.99647	0.82670	0.69648	0.64359	0.65520	0.76369	19.518
19)	CP	1,1-Dichloroethane	0.84074	0.65543	0.57888	0.57765	0.52615	0.63577	19.429
20)	SCP	2-Butanone-d5	0.03599	0.02748	0.02548	0.02218	0.02301	0.02683	20.613
21)	CP	cis-1,2-Dichloroeth	0.51729	0.41122	0.37766	0.36448	0.34378	0.40289	16.999
22)	CP	2-Butanone	0.13575	0.10206	0.09690	0.07820	0.08810	0.10020	21.799
23)	CP	Bromochloromethane	0.25057	0.18972	0.15818	0.15020	0.14616	0.17897	24.323
24)	SCP	Chloroform-d	0.64408	0.65144	0.60221	0.55917	0.55706	0.60279	7.449
25)	CP	Chloroform	0.77018	0.62245	0.54726	0.53559	0.50214	0.59553	17.982
26)	SCP	1,2-Dichloroethane-	0.32730	0.32802	0.30138	0.26658	0.26560	0.29778	10.361
27)	CP	1,2-Dichloroethane	0.47884	0.39860	0.34075	0.31782	0.31362	0.36992	18.836
28)	I	Chlorobenzene-d5	----------ISTD----------						
29)	CP	1,1,1-Trichloroetha	0.65139	0.52146	0.51346	0.52218	0.46075	0.53385	13.201
30)	CP	Cyclohexane	0.84783	0.61874	0.66193	0.70501	0.58484	0.68367	14.964
31)	CP	Carbon Tetrachlorid	0.48950	0.39341	0.40045	0.41781	0.36022	0.41228	11.632
32)	SCP	Benzene-d6	1.49999	1.55235	1.56672	1.47675	1.47365	1.51389	2.853
33)	CP	Benzene	2.06194	1.63115	1.58801	1.58921	1.46070	1.66620	13.820
34)	CP	Trichloroethene	0.50172	0.39463	0.38836	0.39906	0.34942	0.40664	13.939
35)	SCP	1,2-Dichloropropane	0.42157	0.43267	0.47141	0.45333	0.43924	0.44364	4.353
36)	CP	Methylcyclohexane	0.94644	0.70272	0.71537	0.74451	0.62640	0.74709	16.019
37)	CP	1,2-Dichloropropane	0.46141	0.40047	0.35949	0.35836	0.34445	0.38483	12.382
38)	CP	Bromodichloromethan	0.51758	0.40415	0.37968	0.37542	0.36148	0.40766	15.539
39)	CP	cis-1,3-Dichloropro	0.65427	0.53222	0.53006	0.51347	0.50268	0.54654	11.242
40)	CP	4-Methyl-2-Pentanon	0.33988	0.26595	0.22610	0.20267	0.20221	0.24736	23.392
41)	SCP	Toluene-d8	1.48359	1.52845	1.49272	1.40282	1.38280	1.45808	4.273
42)	CP	Toluene	2.34323	1.86266	1.73034	1.72531	1.58685	1.84968	15.821
43)	SCP	trans-1,3-Dichlorop	0.40688	0.41549	0.42120	0.38712	0.39298	0.40473	3.580
44)	CP	trans-1,3-Dichlorop	0.55108	0.43351	0.42330	0.40393	0.40956	0.44428	13.690
45)	CP	1,1,2-Trichloroetha	0.38255	0.27970	0.24761	0.22780	0.22609	0.27275	23.855
46)	CP	Tetrachloroethene	0.51858	0.39548	0.37929	0.38674	0.33587	0.40319	16.981
47)	SCP	2-Hexanone-d5	0.03115	0.02378	0.02370	0.02072	0.02166	0.02420	16.945
48)	CP	2-Hexanone	0.24563	0.19919	0.15725	0.14027	0.14463	0.17739	25.192
49)	CP	Dibromochloromethan	0.34047	0.26918	0.25374	0.24243	0.24159	0.26948	15.297
50)	CP	1,2-Dibromoethane	0.35487	0.26944	0.24772	0.22400	0.22154	0.26351	20.746
51)	CP	Chlorobenzene	1.63432	1.31630	1.15658	1.11055	1.02985	1.24952	19.138
52)	CP	Ethylbenzene	2.58081	2.06524	1.92437	1.90629	1.72358	2.04006	15.968
53)	CP	m,p-Xylene	1.07977	0.84696	0.78121	0.77167	0.70155	0.83623	17.408
54)	CP	o-Xylene	1.03446	0.80607	0.74499	0.73927	0.69197	0.80335	[illegible]
55)	CP	Styrene	1.36800	1.14223	1.04963	1.04804	1.01034	1.12365	12.904
56)	CP	Isopropylbenzene	2.57182	2.03910	1.95783	1.99198	1.78645	2.06944	14.332
57)	SCP	1,1,2,2-Tetrachloro	0.38302	0.34425	0.31963	0.28286	0.27884	0.32172	13.565

58)	CP	1,1,2,2-Tetrachloro	0.41845	0.34570	0.29593	0.26836	0.26719	0.31912	20.055
59)	I	1,4-Dichlorobenzene-d	----------ISTD----------						
60)	CP	Bromoform	0.32790	0.26633	0.23576	0.21670	0.22070	0.25348	18.127
61)	CP	1,3-Dichlorobenzene	2.56184	2.12647	1.80019	1.64030	1.53661	1.93308	21.537
62)	CP	1,4-Dichlorobenzene	2.69449	2.17337	1.79672	1.66171	1.54934	1.97513	23.587
63)	SCP	1,2-Dichlorobenzene	1.23040	1.16438	1.03828	0.91899	0.89779	1.04997	13.973
64)	CP	1,2-Dichlorobenzene	2.38062	1.94063	1.60391	1.46832	1.39260	1.75722	23.154
65)	CP	1,2-Dibromo-3-chlor	0.07984	0.08699	0.06958	0.06303	0.06104	0.07210	15.391
66)	CP	1,2,4-Trichlorobenz	0.99556	1.07094	0.77892	0.88782	0.82022	0.91069	13.331
67)	CP	1,2,3-Trichlorobenz	0.86714	1.04529	0.62644	0.73587	0.64814	0.78458	22.148

(#) = Out of Range

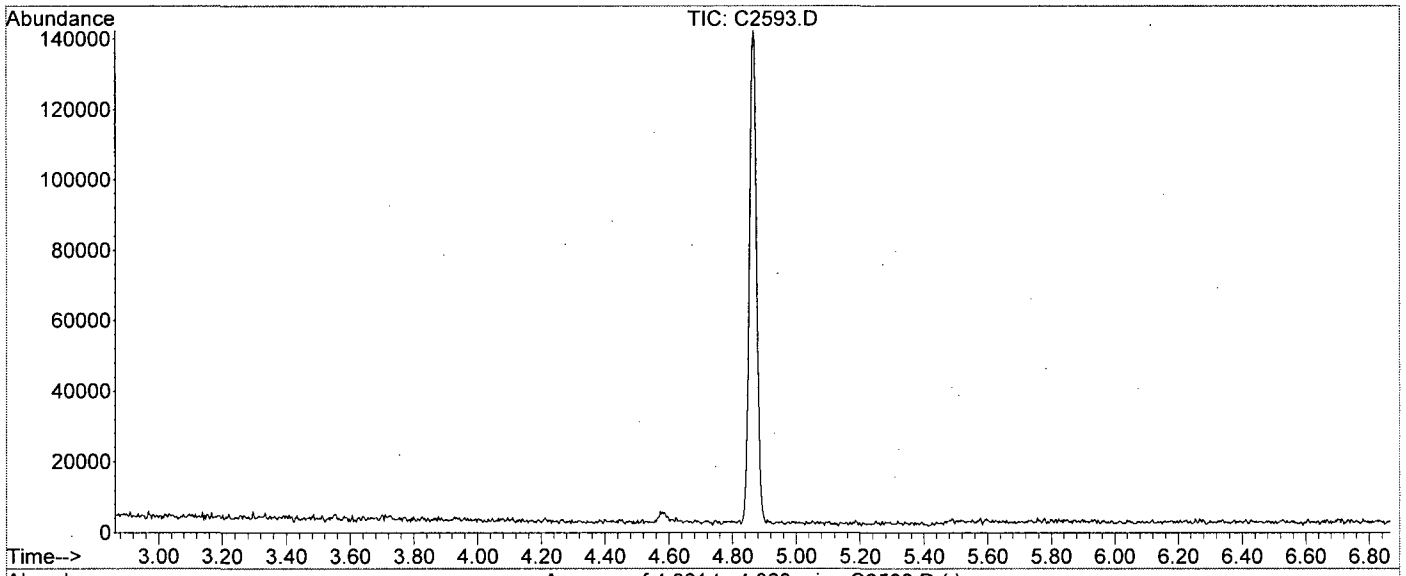
SOTC2553.M Mon Mar 15 14:44:35 2010

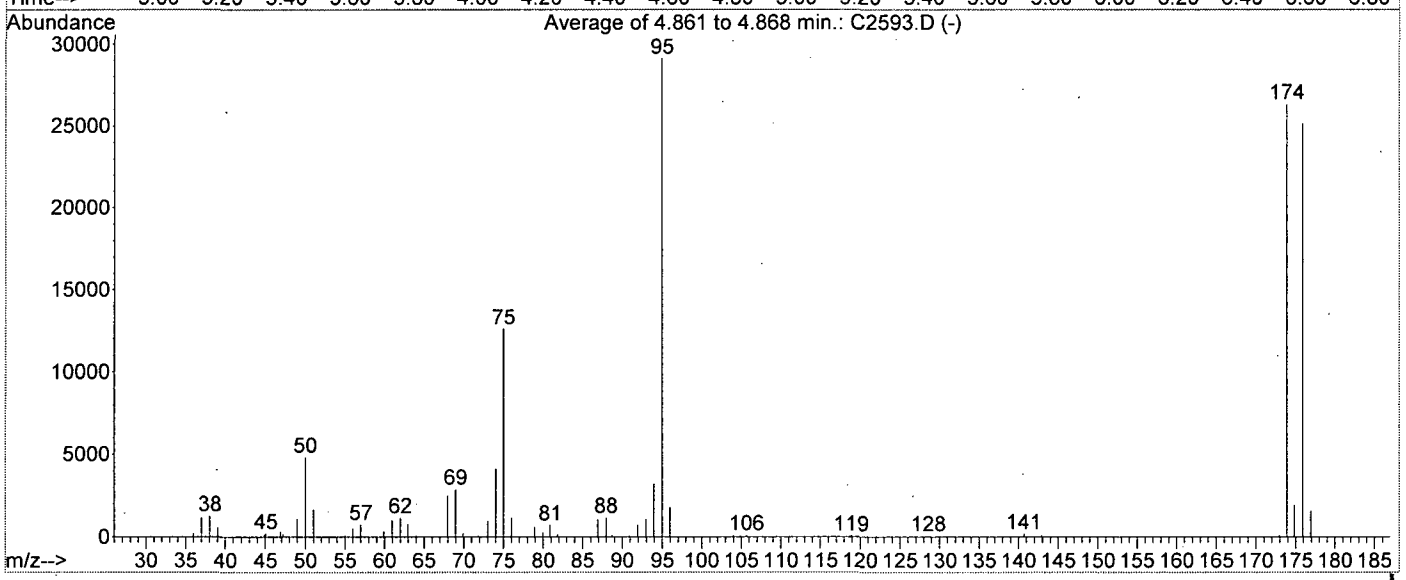
CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2593.D
Acq On : 15 Mar 2010 10:51
Sample : 0C15005-TUN1
Misc : BFB07 50NG
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Vial: 1
Operator: SP
Inst : C-5973
Multiplr: 1.00

3/15/10 3/15/10





AutoFind: Scans 1022, 1023, 1024; Background Corrected with Scan 1009

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	4809	PASS
75	95	30	60	43.2	12585	PASS
95	95	100	100	100.0	29101	PASS
96	95	5	9	6.2	1796	PASS
173	174	0.00	2	0.4	94	PASS
174	95	50	100	90.4	26317	PASS
175	174	5	9	7.3	1933	PASS
176	174	95	101	95.6	25149	PASS
177	176	5	9	6.2	1571	PASS

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Inside: 0011765 Int./Date: Ch 3/15/10

C2593.D SOTC2594.M Mon Mar 15 15:12:38 2010

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2593.D
Acq On : 15 Mar 2010 10:51
Sample : 0C15005-TUN1
Misc : BFB07 50NG
MS Integration Params: RTEINT.P

Vial: 1
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Scan 1023 (4.865 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	272	51.00	1476	71.80	251	91.90	854
37.00	1130	55.10	176	73.00	1143	93.00	1204
38.00	1505	56.00	511	74.00	4149	93.90	3436
39.10	554	57.00	654	75.00	12270	95.00	30088
39.90	491	59.90	242	76.10	1109	95.90	1642
44.00	1878	60.90	986	78.90	674	104.00	236
45.10	281	62.00	1210	80.00	283	115.70	171
46.90	434	63.00	727	80.90	808	129.80	154
47.70	197	67.90	2415	81.80	195	140.70	231
49.00	1218	69.00	3343	86.90	892	172.90	284
50.00	4403	70.00	212	87.90	1429	173.90	26512

Scan 1023 (4.865 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.80	2292						
175.90	25808						
176.90	1788						

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2593.D
Acq On : 15 Mar 2010 10:51
Sample : 0C15005-TUN1
Misc : BFB07 50NG
MS Integration Params: RTEINT.P

Vial: 1
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Scan 1022 (4.861 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	228	51.00	1875	73.00	776	88.70	269
37.00	1146	56.10	450	74.00	3877	90.90	190
38.10	1337	56.90	926	75.00	12501	91.90	707
39.10	630	59.90	427	76.00	1116	92.90	968
39.80	372	61.00	896	76.90	172	94.00	2885
41.90	173	62.00	855	78.90	635	95.00	28800
44.00	1713	62.90	772	79.90	278	96.00	1850
44.90	408	64.00	207	80.90	702	104.90	152
47.20	488	68.00	2528	81.80	261	118.90	230
49.00	1146	68.90	2937	86.90	1056	173.90	27352
50.00	5445	69.90	242	87.90	936	174.80	1711

Scan 1022 (4.861 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.90	22920						
176.90	1426						

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2593.D
Acq On : 15 Mar 2010 10:51
Sample : 0C15005-TUN1
Misc : BFB07 50NG
MS Integration Params: RTEINT.P

Vial: 1
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Scan 1024 (4.868 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	156	51.00	1650	69.90	226	91.90	626
37.00	1265	54.90	165	73.00	957	93.00	993
38.00	944	55.90	597	74.00	4370	94.00	3263
38.90	518	57.10	667	75.00	12986	95.00	28416
39.90	227	59.90	299	75.90	1201	95.90	1898
44.00	2484	61.00	1162	76.90	229	105.70	323
45.00	357	62.00	1393	78.90	477	116.80	193
46.90	477	63.00	829	80.00	268	128.60	203
47.90	157	66.00	186	80.90	650	140.70	339
48.90	896	67.90	2518	86.90	1195	142.90	302
50.00	4579	69.00	2331	88.00	1137	173.90	25088

Scan 1024 (4.868 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.80	1797						
175.90	26720						
176.90	1499						

CLPBFB

Data File : C:\MSDCHEM\1\DATA\C2593.D
Acq On : 15 Mar 2010 10:51
Sample : 0C15005-TUN1
Misc : BFB07 50NG
MS Integration Params: RTEINT.P

Vial: 1
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

Scan 1009 (4.820 min): C2593.D
0C15005-TUN1

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
39.80	607						
42.80	154						
44.00	2252						
77.00	163						

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

EPA SAMPLE NO.

VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030137-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2558.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.

VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030137-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2558.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030137-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2558.D

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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					
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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\C2558.D
Acq On : 12 Mar 2010 11:34
Sample : 0030137-BLK1
Misc : VBLK04 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:54:46 2010

Vial: 42
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

3/15/10
3/15/10

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.40	114	191284	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	176214	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	93476	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	118531	5.4039 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 108.08%		
7) Chloroethane-d5	2.63	69	95968	5.1960 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 103.92%		
10) 1,1-Dichloroethene-d2	3.35	63	104399	4.0722 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 81.44%		
20) 2-Butanone-d5	4.95	46	49103	47.8452 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 95.69%		
24) Chloroform-d	5.32	84	106887	4.6350 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 92.70%		
26) 1,2-Dichloroethane-d4	5.90	65	53243	4.6737 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 93.47%		
32) Benzene-d6	5.94	84	259898	4.8712 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 97.42%		
35) 1,2-Dichloropropane-d6	6.88	67	69549	4.4482 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 88.96%		
41) Toluene-d8	8.29	98	249719	4.8596 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 97.19%		
43) trans-1,3-Dichloropropene-	8.62	79	67507	4.7327 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 94.65%		
47) 2-Hexanone-d5	9.21	63	39766	46.6209 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 93.24%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	54119	4.7731 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 95.46%		
63) 1,2-Dichlorobenzene-d4	13.59	152	94120	4.7949 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 95.90%		

Target Compounds Qvalue

ORIGINAL COPY
Case: 39551 SDG: F3FY1
Episode: 0011765 Int./Date: CA 3/15/10

0000000275

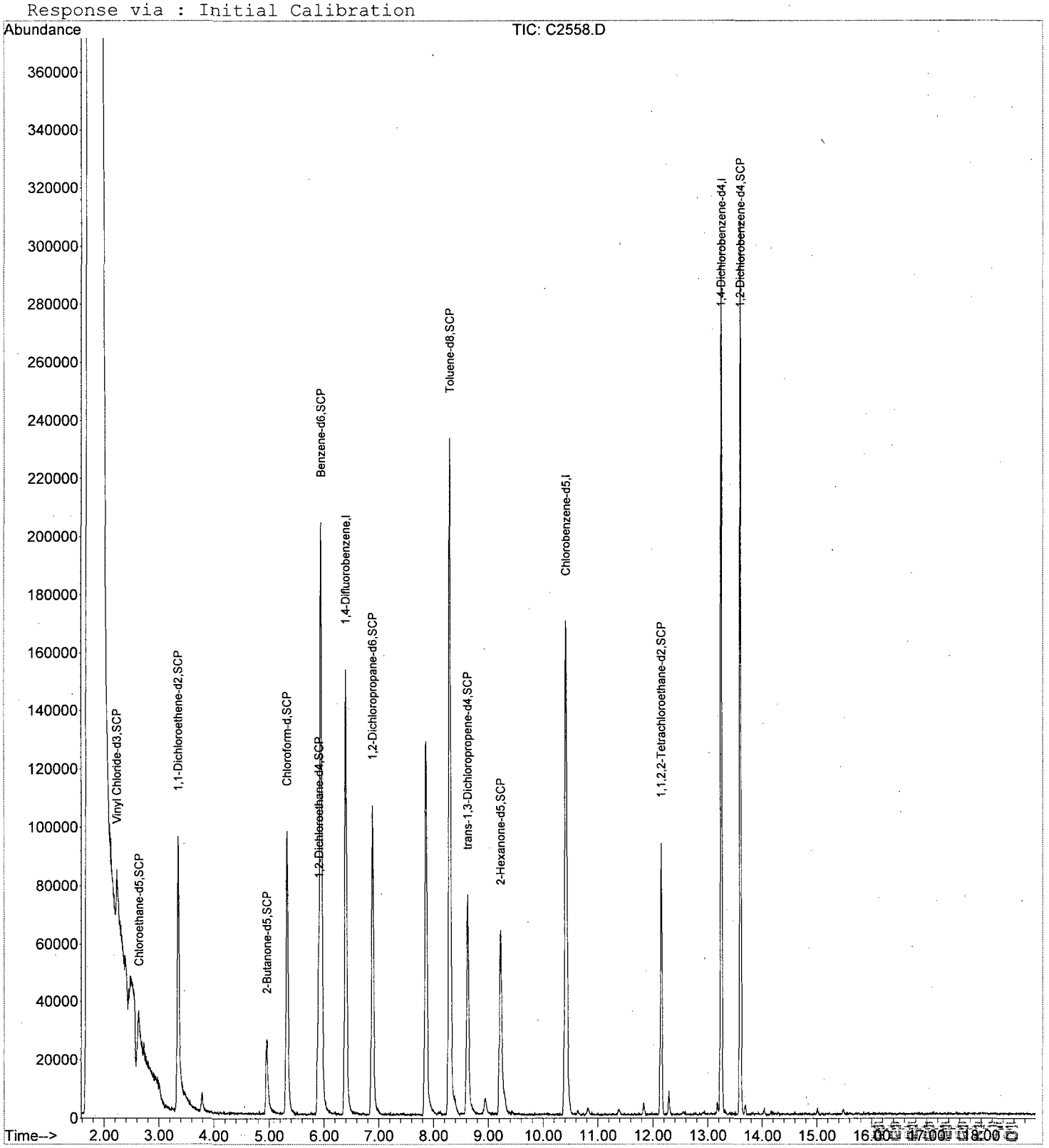
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2558.D
Acq On : 12 Mar 2010 11:34
Sample : 0030137-BLK1
Misc : VBLK04 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 11:55 2010

Vial: 42
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2553.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 11:27:18 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2558.D Vial: 42
Acq On : 12 Mar 2010 11:34 Operator: SP
Sample : 0030137-BLK1 Inst : C-5973
Misc : VBLK04 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

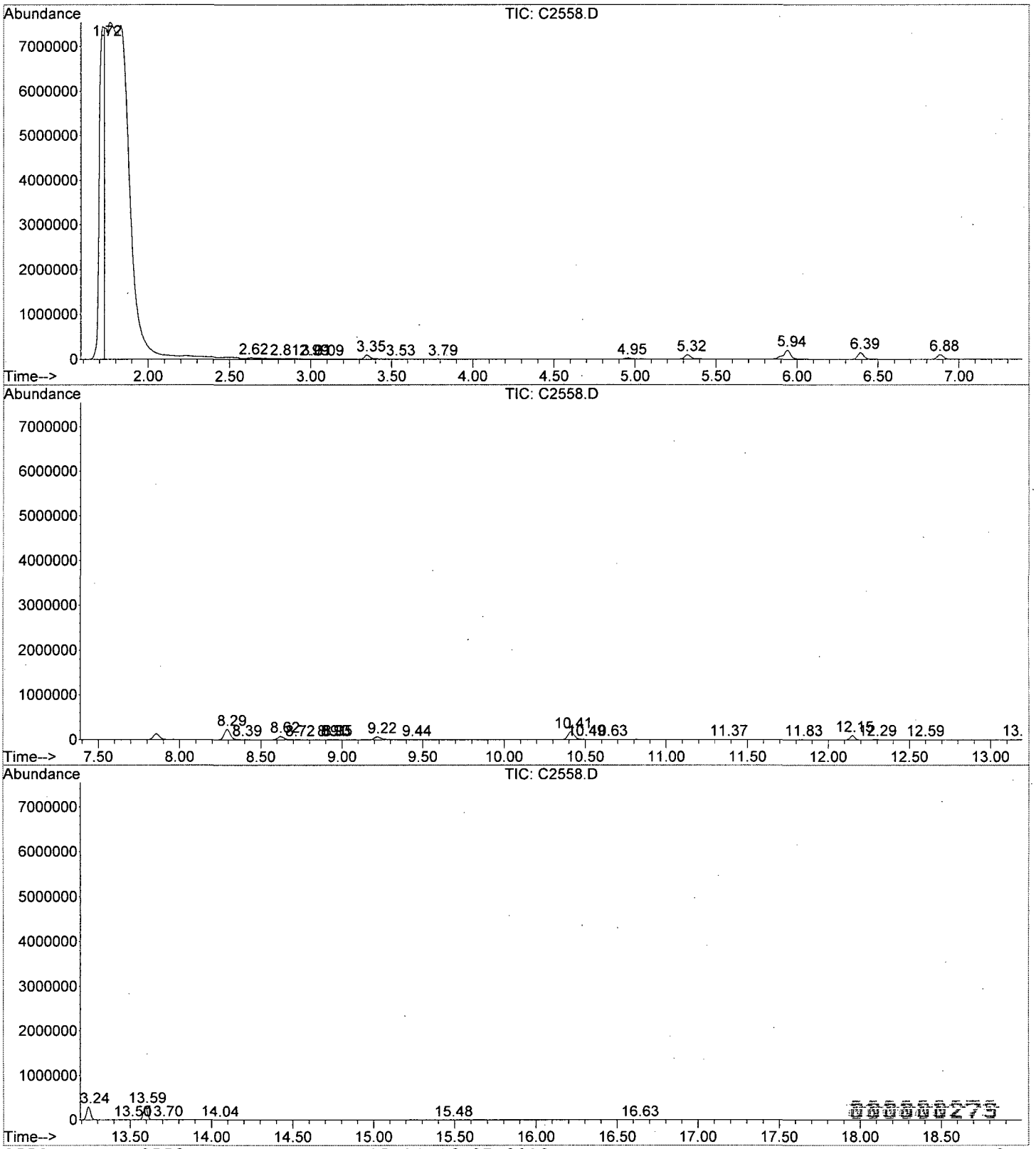
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.720	15	43	46	rBV	7452284	15828744	100.00%	77.174%
2	2.622	317	324	325	rBV	12695	11733	0.07%	0.057%
3	2.814	382	384	385	rBV2	2709	1012	0.01%	0.005%
4	2.994	438	440	443	rBV3	3381	1874	0.01%	0.009%
5	3.007	443	444	447	rVB	2195	1054	0.01%	0.005%
6	3.087	467	469	472	rVB2	1887	1281	0.01%	0.006%
7	3.347	536	550	572	rBV3	94137	243341	1.54%	1.186%
8	3.530	606	607	612	rVB4	1817	1100	0.01%	0.005%
9	3.790	679	688	693	rBV7	5714	9138	0.06%	0.045%
10	4.954	1039	1051	1070	rBV	25865	69548	0.44%	0.339%
11	5.323	1149	1166	1185	rBV3	97154	243983	1.54%	1.190%
12	5.940	1331	1358	1379	rBV3	203402	658276	4.16%	3.209%
13	6.392	1482	1499	1524	rBV2	152962	391410	2.47%	1.908%
14	6.883	1633	1652	1669	rBV2	106399	276678	1.75%	1.349%
15	8.295	2073	2092	2119	rBV2	232726	630252	3.98%	3.073%
16	8.388	2119	2121	2124	rVB3	2672	1381	0.01%	0.007%
17	8.622	2177	2194	2216	rBV3	75657	201861	1.28%	0.984%
18	8.715	2222	2223	2228	rVB5	1486	1059	0.01%	0.005%
19	8.911	2282	2284	2287	rBV3	1950	1306	0.01%	0.006%
20	8.933	2287	2291	2292	rBV2	3864	2189	0.01%	0.011%
21	8.946	2292	2295	2296	rVV2	1988	1232	0.01%	0.006%
22	9.222	2363	2381	2399	rBV4	63764	194752	1.23%	0.950%
23	9.437	2445	2448	2453	rBV3	1409	1309	0.01%	0.006%
24	10.413	2733	2752	2775	rBV2	170030	486077	3.07%	2.370%
25	10.493	2775	2777	2783	rVB4	3129	2370	0.01%	0.012%
26	10.631	2818	2820	2825	rVB3	1323	1025	0.01%	0.005%
27	11.372	3047	3051	3052	rBV3	1551	1054	0.01%	0.005%
28	11.834	3183	3195	3201	rBV7	4222	6651	0.04%	0.032%
29	12.149	3279	3293	3311	rVB4	93619	181063	1.14%	0.883%
30	12.290	3327	3337	3347	rBV4	7823	12197	0.08%	0.059%
31	12.585	3428	3429	3435	rVB3	1513	1110	0.01%	0.005%
32	13.176	3608	3613	3620	rBV4	3670	4647	0.03%	0.023%
33	13.243	3621	3634	3652	rVB	300869	512711	3.24%	2.500%
34	13.503	3711	3715	3718	rVB3	1470	1042	0.01%	0.005%
35	13.593	3731	3743	3756	rBV	308317	517152	3.27%	2.521%
36	13.695	3767	3775	3779	rVB5	3273	4488	0.03%	0.022%
37	14.039	3880	3882	3887	rVB2	2051	1263	0.01%	0.006%
38	15.480	4325	4331	4334	rBV3	1712	1940	0.01%	0.009%
39	16.628	4686	4689	4695	rBV2	942	1087	0.01%	0.005%

000000277

Sum of corrected areas: 20510390

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2558.D Vial: 42
Acq On : 12 Mar 2010 11:34 Operator: SP
Sample : 0030137-BLK1 Inst : C-5973
Misc : VBLK04 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2558.D Vial: 42
Acq On : 12 Mar 2010 11:34 Operator: SP
Sample : 0030137-BLK1 Inst : C-5973
Misc : VBLK04 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

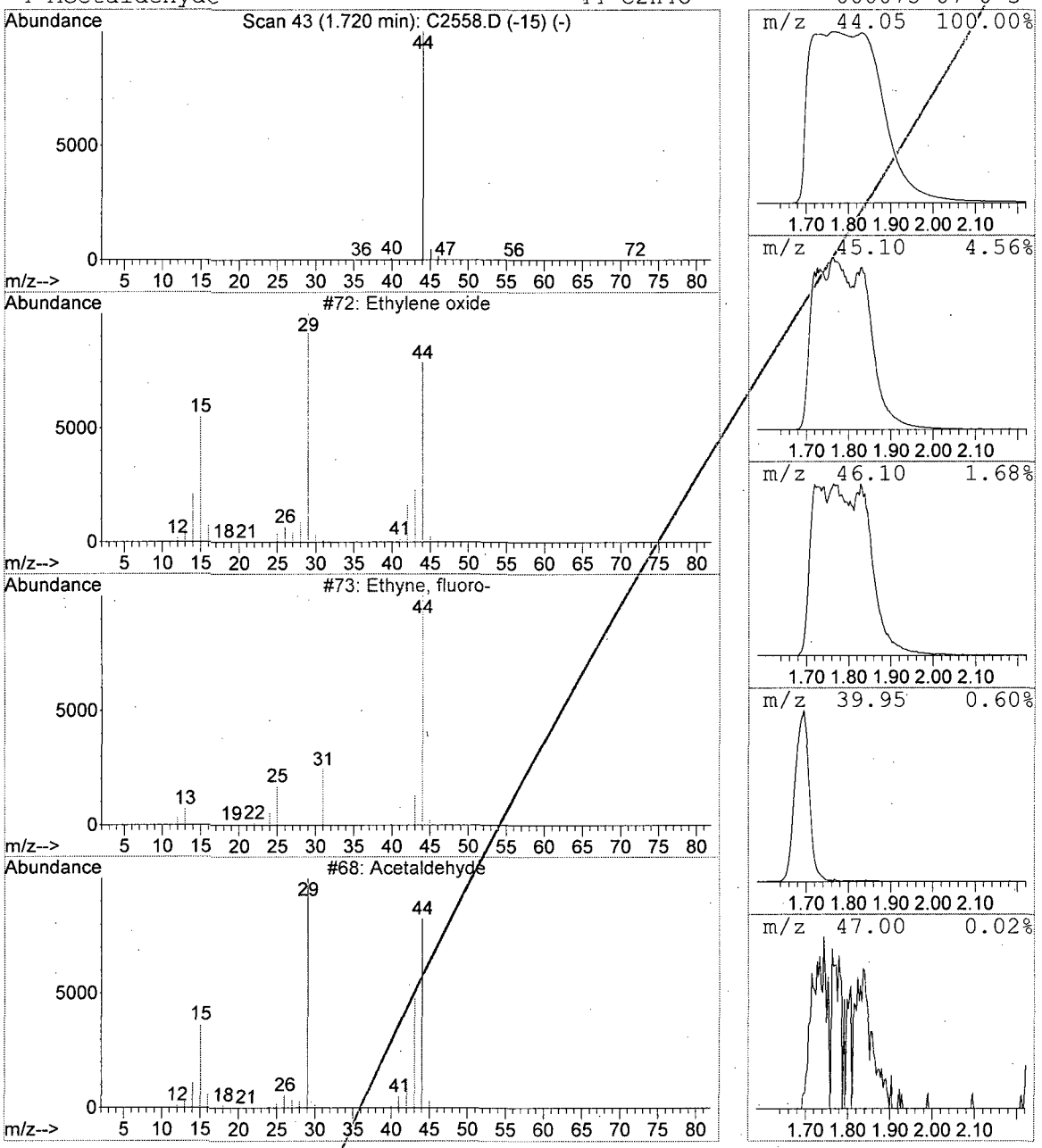
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.72	202.20 ug/L	15828700	1,4-Difluorobenzene	6.40

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



000000288

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 11:34
Data File: C:\MSDCHEM\1\DATA\C2558.D
Name: 0030137-BLK1
Misc: VBLK04 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2553.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylene oxide	1.72	202.2	ug/L	15828700	1	6.40	391410	5.0

000000281

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

EPA SAMPLE NO.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030145-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2571.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030145-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2571.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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
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.
VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030145-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2571.D

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/12/2010

GC Column: DB-624 ID: 0.20 (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					
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19					
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21					
22					
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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\C2571.D Vial: 13
Acq On : 12 Mar 2010 18:40 Operator: SP
Sample : 0030145-BLK1 Inst : C-5973
Misc : VBLK05 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 12 19:00:31 2010 Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10
3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	194910	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	177106	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.25	152	89550	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.23	65	120004	5.3693 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 107.39%		
7) Chloroethane-d5	2.63	69	98500	5.2339 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 104.68%		
10) 1,1-Dichloroethene-d2	3.35	63	108989	4.1722 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 83.44%		
20) 2-Butanone-d5	4.96	46	40318	38.5544 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 77.11%		
24) Chloroform-d	5.32	84	107792	4.5873 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 91.75%		
26) 1,2-Dichloroethane-d4	5.89	65	52007	4.4803 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 89.61%		
32) Benzene-d6	5.94	84	262463	4.8945 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 97.89%		
35) 1,2-Dichloropropane-d6	6.88	67	70220	4.4685 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 89.37%		
41) Toluene-d8	8.29	98	249014	4.8215 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 96.43%		
43) trans-1,3-Dichloropropene-	8.62	79	63241	4.4113 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 88.23%		
47) 2-Hexanone-d5	9.21	63	33427	38.9918 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 77.98%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	50055	4.3925 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 87.85%		
63) 1,2-Dichlorobenzene-d4	13.59	152	90450	4.8099 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 96.20%		

Target Compounds Qvalue

ORIGINAL COPY
Case: 39551 SDG: E3FYL
Episode: 0011765 Int./Date: CL 3/15/10

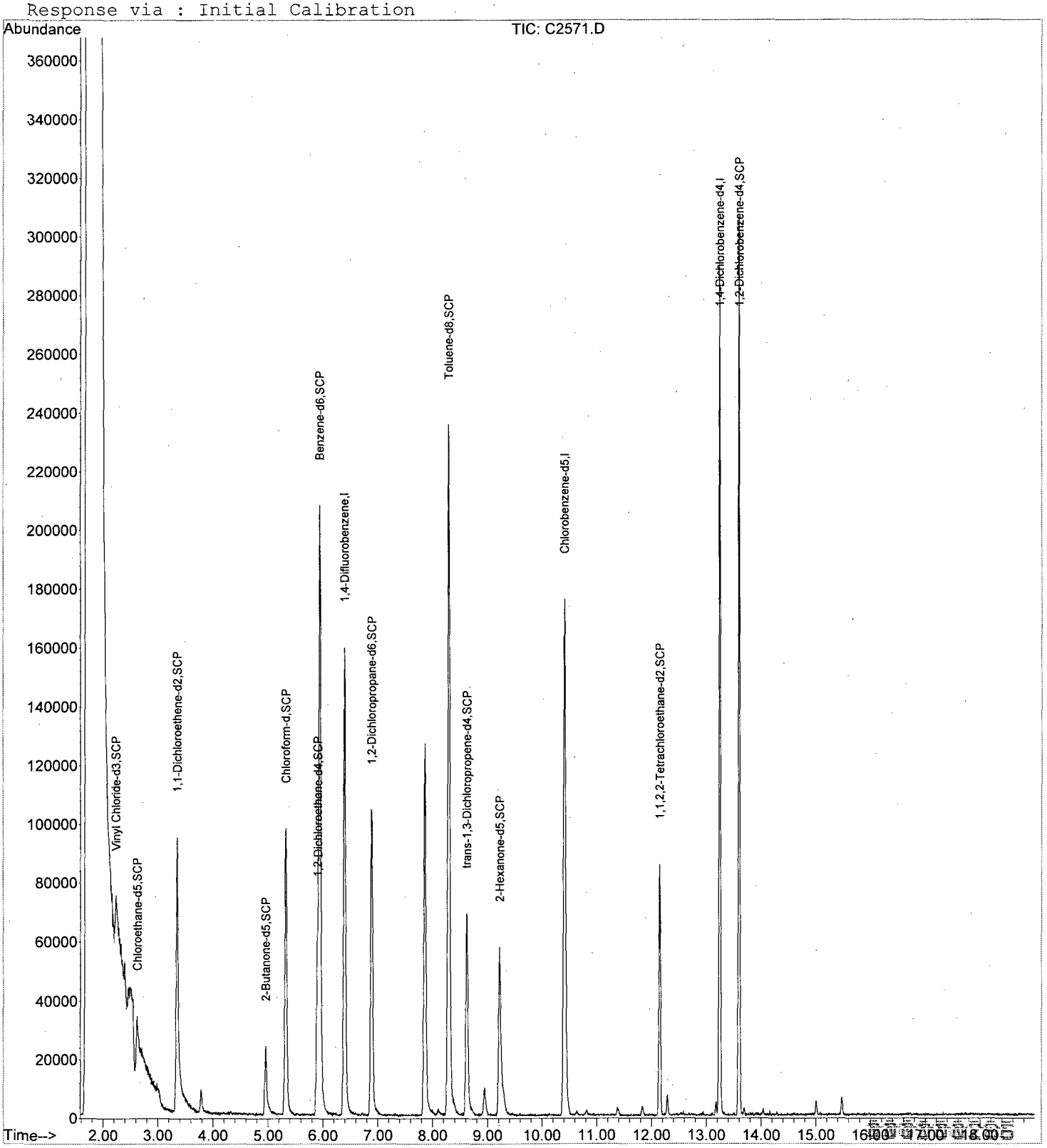
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2571.D
Acq On : 12 Mar 2010 18:40
Sample : 0030145-BLK1
Misc : VBLK05 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 12 19:01 2010

Vial: 13
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2571.D
Acq On : 12 Mar 2010 18:40
Sample : 0030145-BLK1
Misc : VBLK05 25ML
MS Integration Params: Lscint.p

Vial: 13
Operator: SP
Inst : C-5973
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1000 Area counts
Max Peaks: 40
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

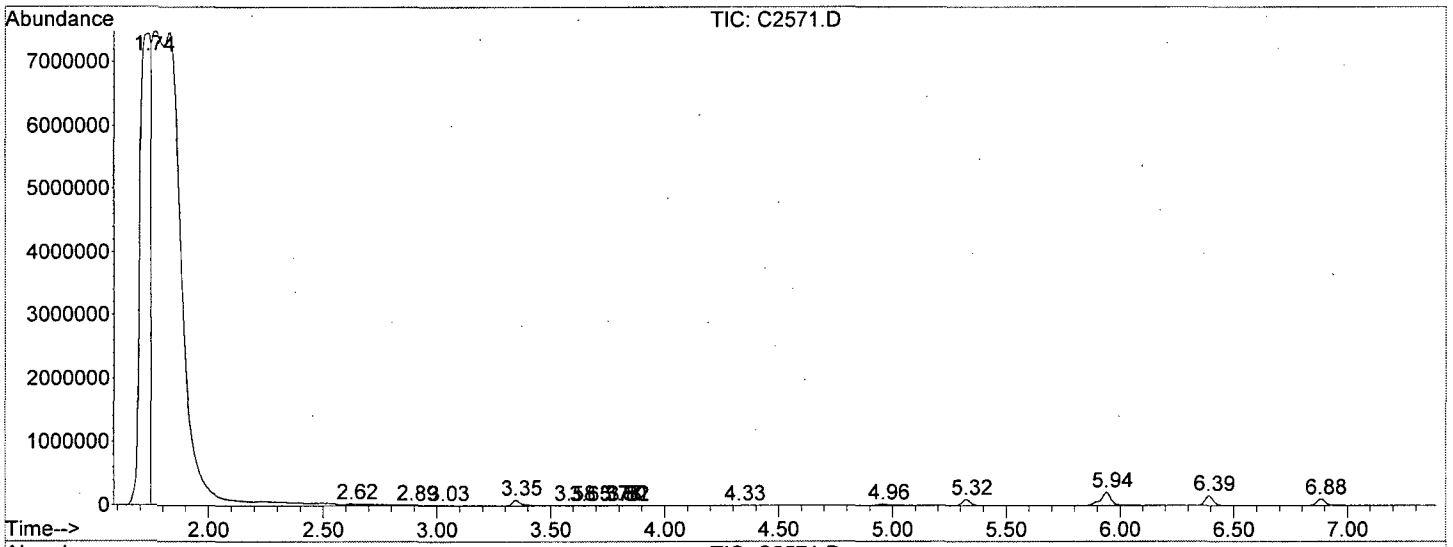
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.736	16	48	52	rBV	7441986	24221847	100.00%	82.942%
2	2.625	317	325	326	rBV2	15239	17132	0.07%	0.059%
3	2.888	405	407	410	rVB3	2401	1281	0.01%	0.004%
4	3.026	448	450	454	rVB3	2937	1981	0.01%	0.007%
5	3.347	536	550	568	rBV3	93142	236014	0.97%	0.808%
6	3.581	621	623	628	rVB3	1879	1331	0.01%	0.005%
7	3.648	640	644	648	rVB4	1414	1136	0.00%	0.004%
8	3.780	676	685	686	rBV4	7249	6938	0.03%	0.024%
9	3.802	691	692	694	rVV2	5043	2132	0.01%	0.007%
10	3.815	694	696	701	rVB4	1872	1771	0.01%	0.006%
11	4.325	848	855	857	rBV2	1148	1260	0.01%	0.004%
12	4.958	1039	1052	1064	rBV	23439	55469	0.23%	0.190%
13	5.323	1149	1166	1186	rBV2	97460	249730	1.03%	0.855%
14	5.940	1329	1358	1386	rBV3	207694	677536	2.80%	2.320%
15	6.389	1483	1498	1519	rBV2	158630	397489	1.64%	1.361%
16	6.880	1632	1651	1668	rBV2	104224	277573	1.15%	0.950%
17	7.858	1938	1956	1978	rBV2	126611	331499	1.37%	1.135%
18	8.292	2073	2091	2114	rBV2	235013	625132	2.58%	2.141%
19	8.622	2176	2194	2219	rBV4	68774	191121	0.79%	0.654%
20	8.943	2281	2294	2295	rBV3	8482	11464	0.05%	0.039%
21	9.219	2364	2380	2399	rBV3	56968	170350	0.70%	0.583%
22	10.413	2731	2752	2784	rBV3	175766	493889	2.04%	1.691%
23	10.641	2819	2823	2828	rVB3	1197	1138	0.00%	0.004%
24	10.823	2873	2880	2886	rVB4	1738	2624	0.01%	0.009%
25	11.379	3044	3053	3056	rBV6	2839	3217	0.01%	0.011%
26	11.831	3185	3194	3195	rBV4	3260	3692	0.02%	0.013%
27	12.149	3278	3293	3307	rBV2	85297	168131	0.69%	0.576%
28	12.290	3327	3337	3338	rBV3	6346	6578	0.03%	0.023%
29	13.169	3607	3611	3612	rBV2	3675	2205	0.01%	0.008%
30	13.179	3612	3614	3622	rVV4	4551	4822	0.02%	0.017%
31	13.243	3622	3634	3650	rVV	289820	498574	2.06%	1.707%
32	13.596	3728	3744	3758	rBV	305802	512590	2.12%	1.755%
33	13.686	3765	3772	3773	rBV3	2515	1812	0.01%	0.006%
34	13.692	3773	3774	3780	rVB4	2573	1560	0.01%	0.005%
35	14.039	3878	3882	3885	rBV2	1859	1518	0.01%	0.005%
36	14.161	3915	3920	3921	rBV2	1977	1267	0.01%	0.004%
37	14.594	4051	4055	4059	rBV2	1086	1034	0.00%	0.004%
38	15.008	4175	4184	4193	rBV5	4842	8268	0.03%	0.028%
39	15.480	4322	4331	4340	rVB7	5923	10328	0.04%	0.035%

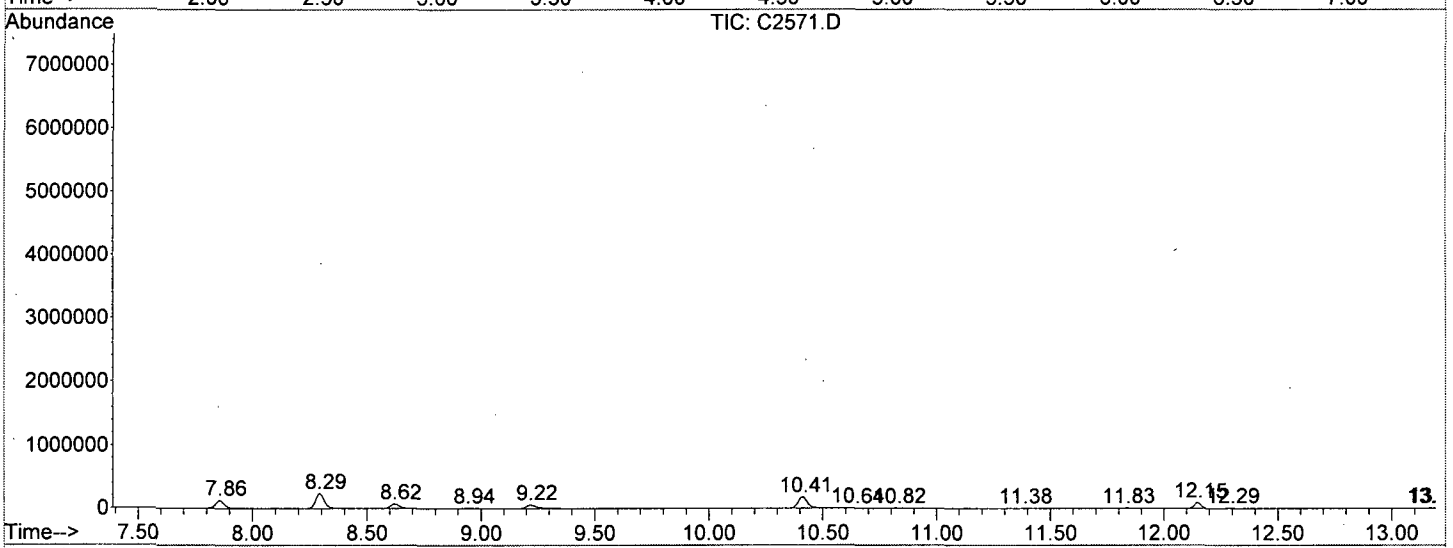
000000287

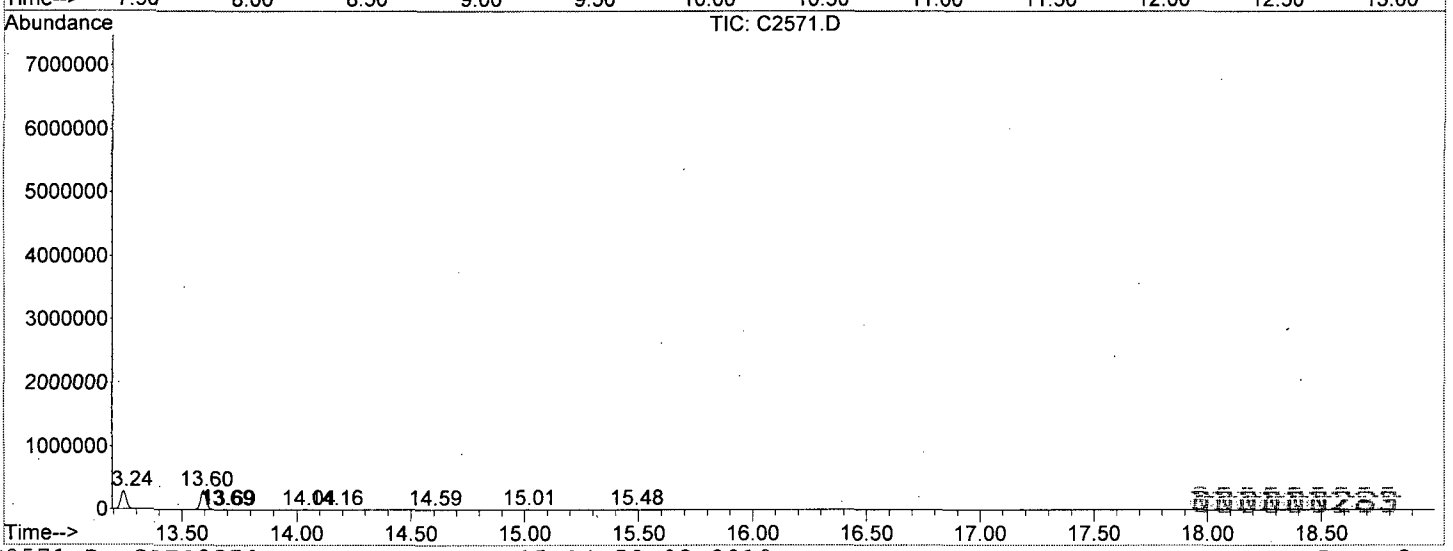
Sum of corrected areas: 29203433

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2571.D Vial: 13
Acq On : 12 Mar 2010 18:40 Operator: SP
Sample : 0030145-BLK1 Inst : C-5973
Misc : VBLK05 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2571.D Vial: 13
Acq On : 12 Mar 2010 18:40 Operator: SP
Sample : 0030145-BLK1 Inst : C-5973
Misc : VBLK05 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

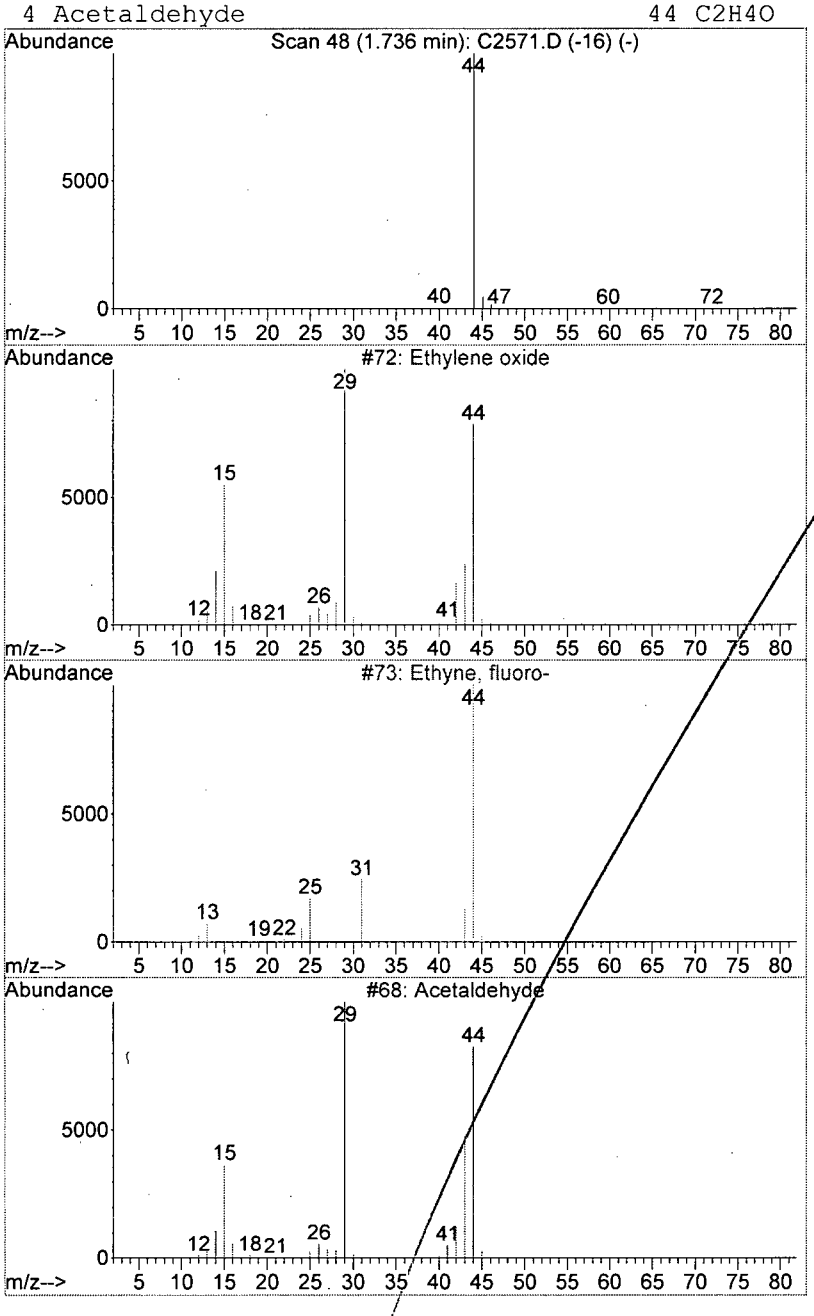
****

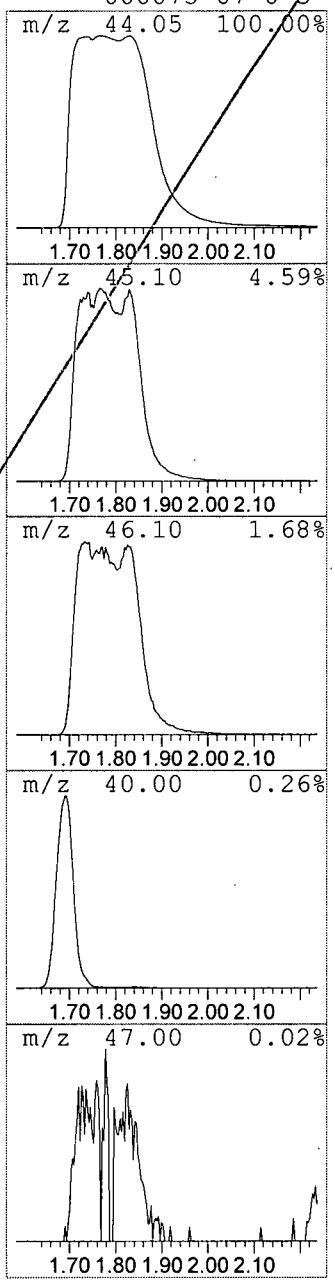
Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.74	304.69 ug/L	24221800	1,4-Difluorobenzene	6.39

Co2

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





000000290

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2571.D Vial: 13
Acq On : 12 Mar 2010 18:40 Operator: SP
Sample : 0030145-BLK1 Inst : C-5973
Misc : VBLK05 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

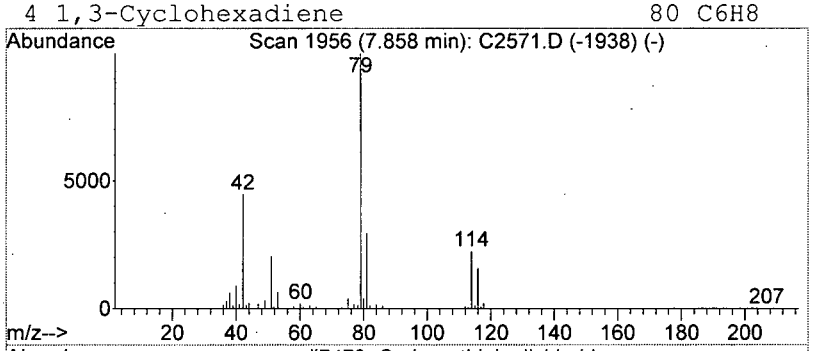
Dme adsorbent

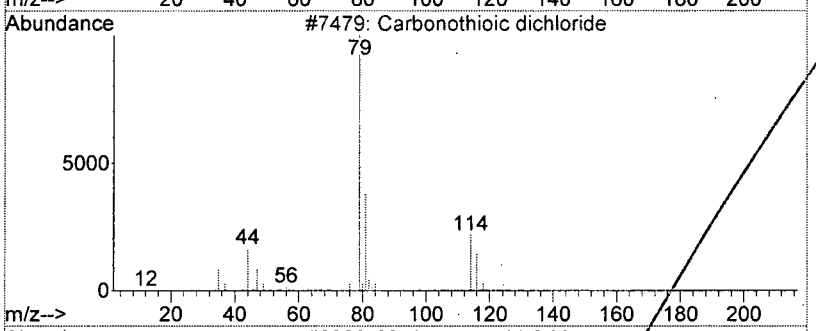
****

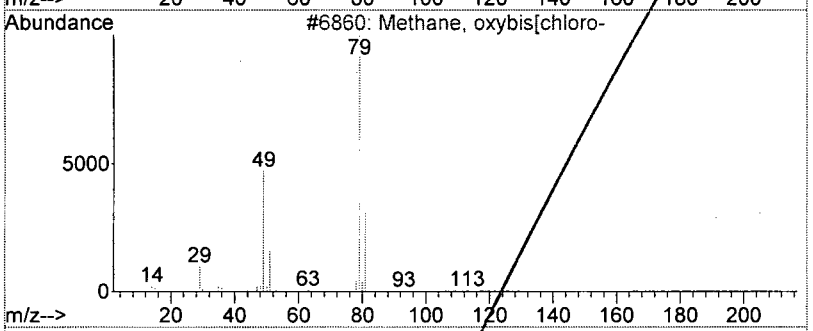
Peak Number 2 Carbonothioic dichloride Concentration Rank 2

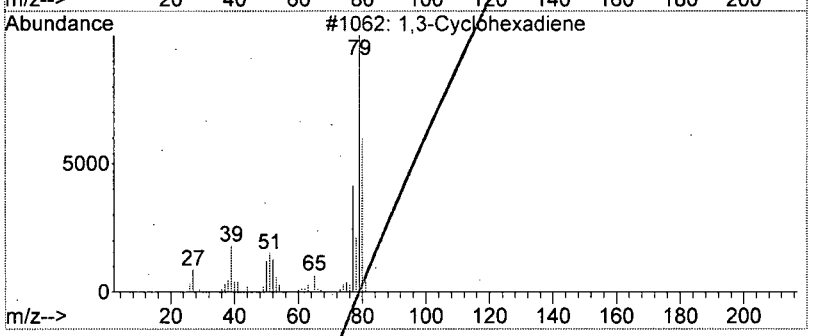
R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	4.17 ug/L	331499	1,4-Difluorobenzene	6.39

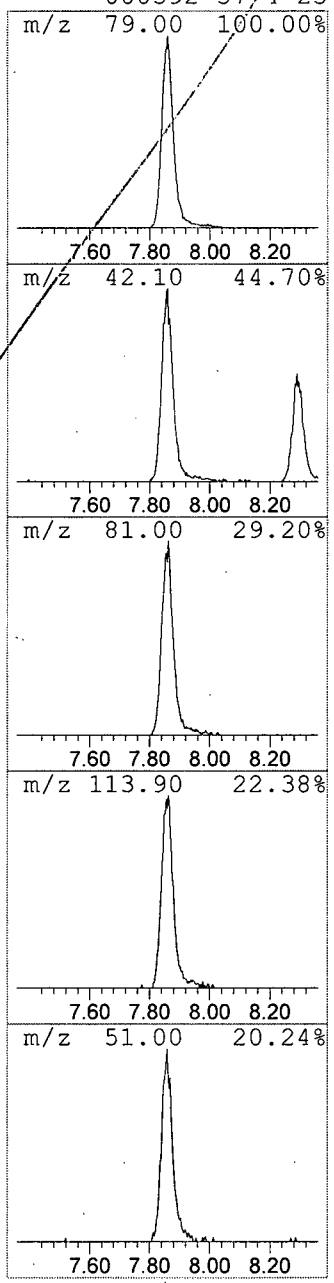
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	38
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	37
4	1,3-Cyclohexadiene	80	C6H8	000592-57-4	25











0000000291

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 12 Mar 2010 18:40
Data File: C:\MSDCHEM\1\DATA\C2571.D
Name: 0030145-BLK1
Misc: VBLK05 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylene oxide	1.74	304.7	ug/L	24221800	1	6.39	397489	5.0
Carbonothioic dic...	7.86	4.2	ug/L	331499	1	6.39	397489	5.0

000000252

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

EPA SAMPLE NO.

VBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030155-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2595.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.

VBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030155-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2595.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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
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.
VBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030155-BLK1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2595.D

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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\C2595.D
Acq On : 15 Mar 2010 12:20
Sample : 0030155-BLK1
Misc : VBLK07 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:30:12 2010

Vial: 4
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2594.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10
3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.40	114	216368	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	195427	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	99709	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.24	65	118776	4.7873 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery =	95.75%	
7) Chloroethane-d5	2.63	69	97759	4.6793 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery =	93.59%	
10) 1,1-Dichloroethene-d2	3.35	63	107397	3.7035 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery =	74.07%	
20) 2-Butanone-d5	4.95	46	55111	47.4738 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery =	94.95%	
24) Chloroform-d	5.32	84	109561	4.2002 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery =	84.00%	
26) 1,2-Dichloroethane-d4	5.90	65	55304	4.2919 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery =	85.84%	
32) Benzene-d6	5.94	84	262585	4.4377 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery =	88.75%	
35) 1,2-Dichloropropane-d6	6.88	67	72539	4.1833 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery =	83.67%	
41) Toluene-d8	8.29	98	247711	4.3466 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery =	86.93%	
43) trans-1,3-Dichloropropene-	8.62	79	65973	4.1705 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery =	83.41%	
47) 2-Hexanone-d5	9.22	63	41949	44.3452 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery =	88.69%	
57) 1,1,2,2-Tetrachloroethane-	12.15	84	53351	4.2428 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery =	84.86%	
63) 1,2-Dichlorobenzene-d4	13.59	152	91961	4.3920 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery =	87.84%	

Target Compounds Qvalue

ORIGINAL COPY
Case: 3955 SDG: F3EYL
Episode: 0011765 Int./Date: CL 3/15/10
00000296

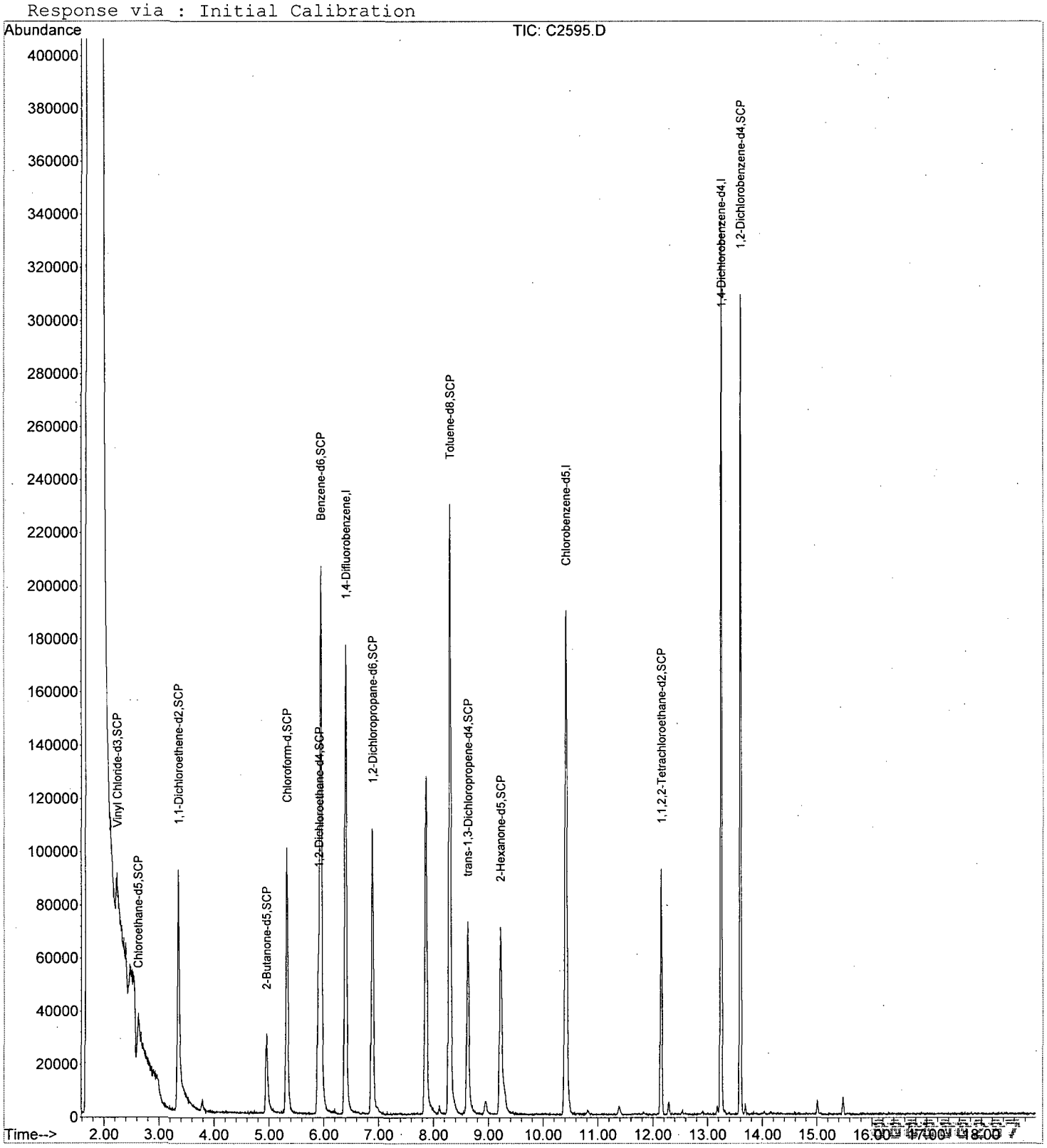
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2595.D
Acq On : 15 Mar 2010 12:20
Sample : 0030155-BLK1
Misc : VBLK07 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:31 2010

Vial: 4
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2594.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2595.D Vial: 4
Acq On : 15 Mar 2010 12:20 Operator: SP
Sample : 0030155-BLK1 Inst : C-5973
Misc : VBLK07 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

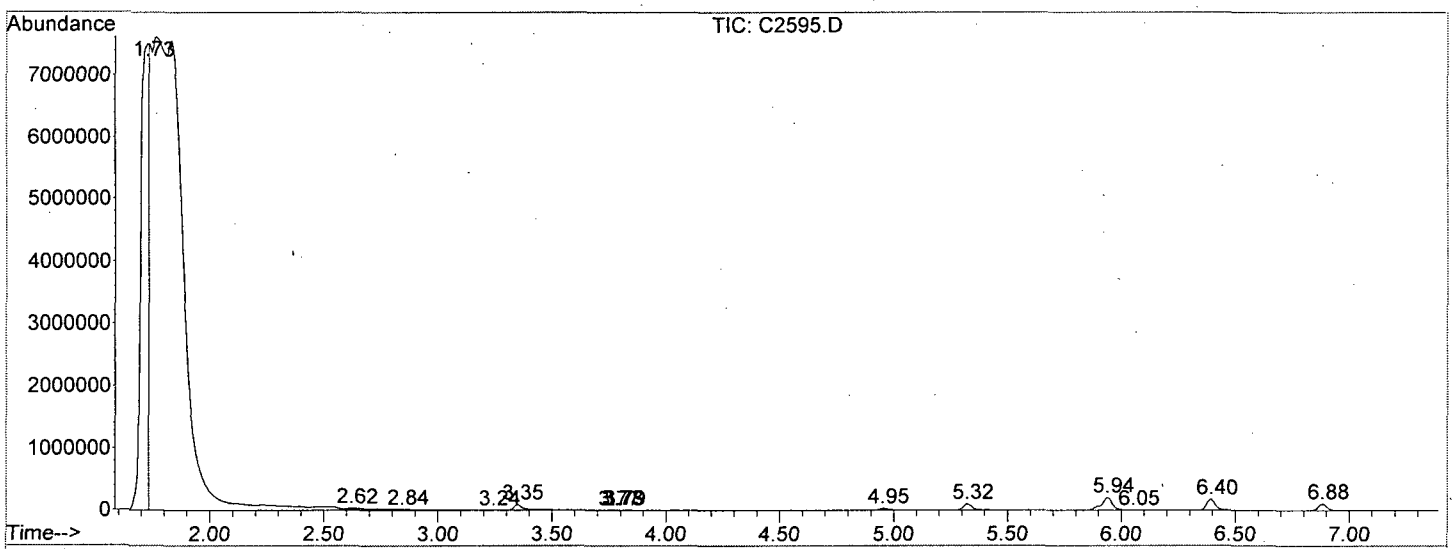
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.726	16	45	47	rBV	7514546	17940934	100.00%	77.467%
2	2.621	315	324	335	rBV3	15964	38381	0.21%	0.166%
3	2.843	391	393	397	rBV5	3105	1485	0.01%	0.006%
4	3.244	516	518	523	rBV2	1464	1198	0.01%	0.005%
5	3.347	535	550	571	rBV3	90716	234461	1.31%	1.012%
6	3.767	677	681	682	rBV3	1679	1059	0.01%	0.005%
7	3.783	682	686	687	rVV2	3266	2379	0.01%	0.010%
8	3.793	687	689	694	rVB4	3512	2472	0.01%	0.011%
9	4.951	1039	1050	1079	rBV2	29506	81730	0.46%	0.353%
10	5.323	1149	1166	1189	rBV	100021	252516	1.41%	1.090%
11	5.939	1328	1358	1377	rBV3	206315	670097	3.74%	2.893%
12	6.052	1390	1393	1396	rVB3	1754	1207	0.01%	0.005%
13	6.395	1484	1500	1518	rBV3	176322	439958	2.45%	1.900%
14	6.883	1636	1652	1668	rBV3	107084	281388	1.57%	1.215%
15	7.855	1937	1955	1974	rBV4	127224	346719	1.93%	1.497%
16	8.295	2071	2092	2118	rBV	229362	622182	3.47%	2.687%
17	8.622	2178	2194	2220	rBV3	72121	194851	1.09%	0.841%
18	8.927	2287	2289	2291	rBV2	2033	1263	0.01%	0.005%
19	8.946	2291	2295	2296	rVV3	2159	1766	0.01%	0.008%
20	9.216	2360	2379	2400	rBV4	70695	216754	1.21%	0.936%
21	9.328	2412	2414	2418	rVB4	2098	1009	0.01%	0.004%
22	10.413	2732	2752	2773	rBV4	189694	534913	2.98%	2.310%
23	10.727	2845	2850	2853	rVB2	1183	1079	0.01%	0.005%
24	11.382	3047	3054	3055	rBV6	3004	2665	0.01%	0.012%
25	12.149	3281	3293	3308	rVB	92576	178296	0.99%	0.770%
26	12.290	3327	3337	3343	rBV5	4866	8210	0.05%	0.035%
27	12.543	3412	3416	3420	rVB3	2038	1733	0.01%	0.007%
28	12.912	3528	3531	3536	rVB3	1843	1575	0.01%	0.007%
29	13.179	3609	3614	3621	rVB6	2647	2626	0.01%	0.011%
30	13.243	3621	3634	3649	rBV	336873	553606	3.09%	2.390%
31	13.593	3730	3743	3758	rBV2	308675	516963	2.88%	2.232%
32	13.686	3766	3772	3773	rBV3	3726	2410	0.01%	0.010%
33	15.008	4175	4184	4195	rBV3	5741	9724	0.05%	0.042%
34	15.476	4323	4330	4341	rBV4	6698	10906	0.06%	0.047%
35	18.977	5416	5421	5423	rBV2	1003	1015	0.01%	0.004%

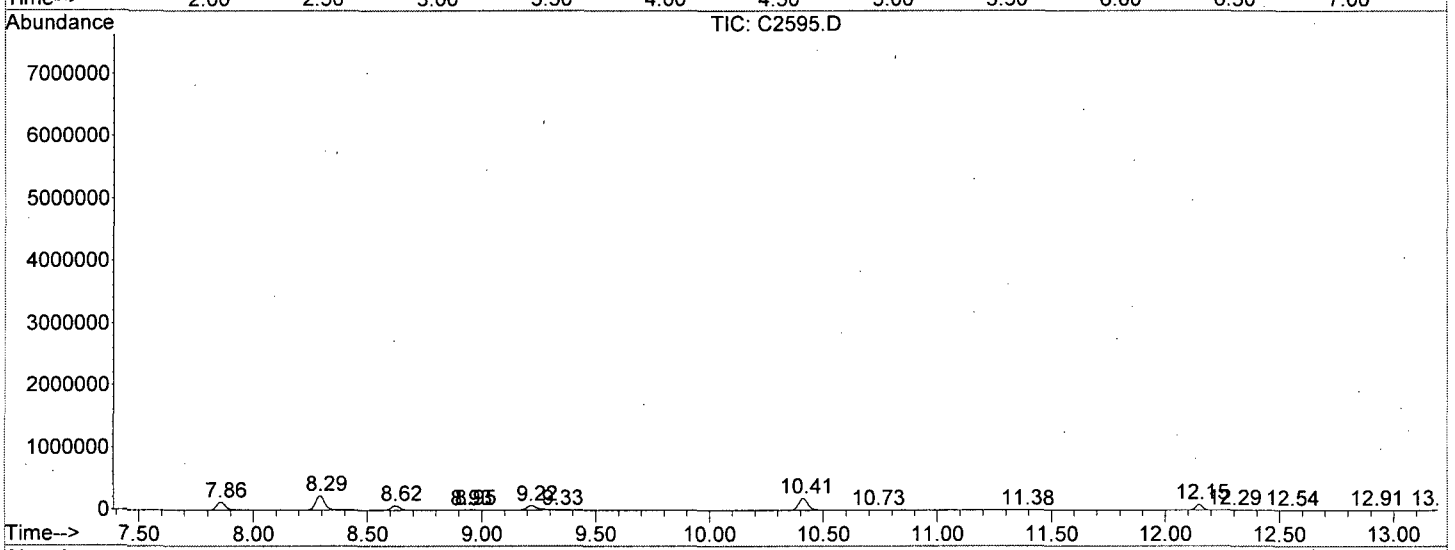
Sum of corrected areas: 23159530

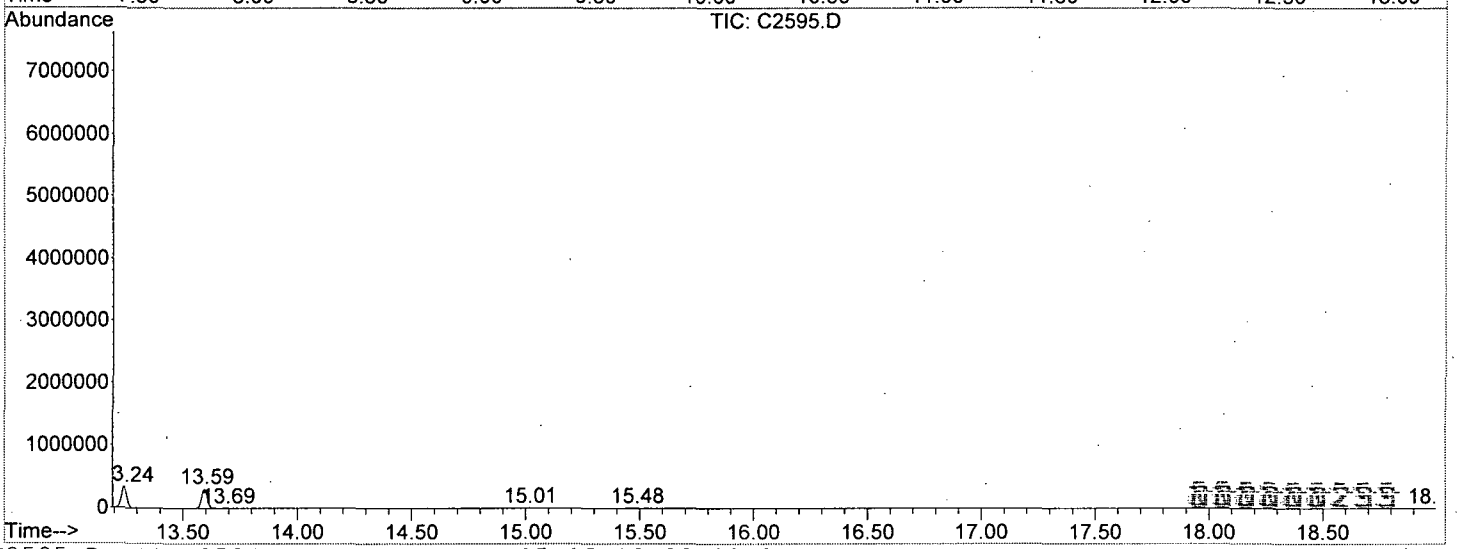
000000298

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2595.D Vial: 4
Acq On : 15 Mar 2010 12:20 Operator: SP
Sample : 0030155-BLK1 Inst : C-5973
Misc : VBLK07 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2595.D Vial: 4
Acq On : 15 Mar 2010 12:20 Operator: SP
Sample : 0030155-BLK1 Inst : C-5973
Misc : VBLK07 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

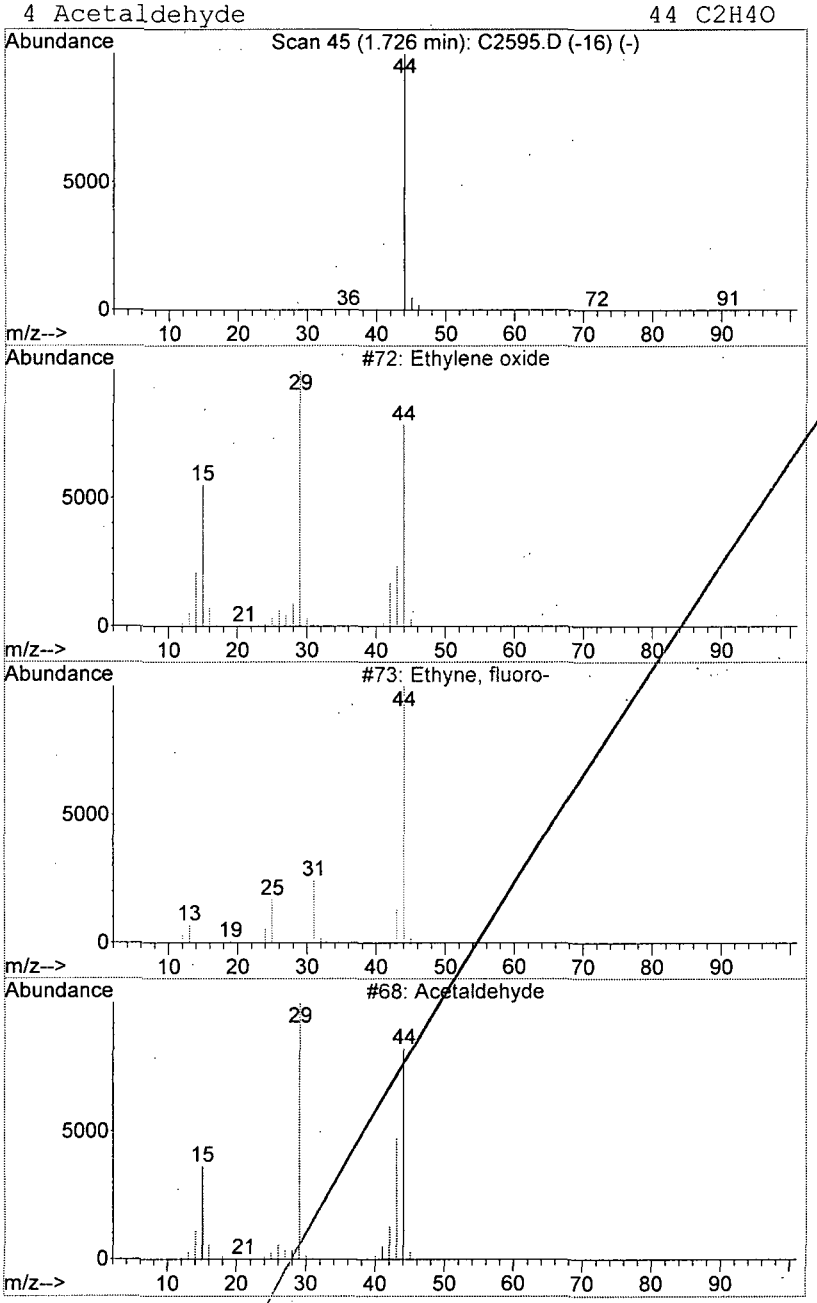
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

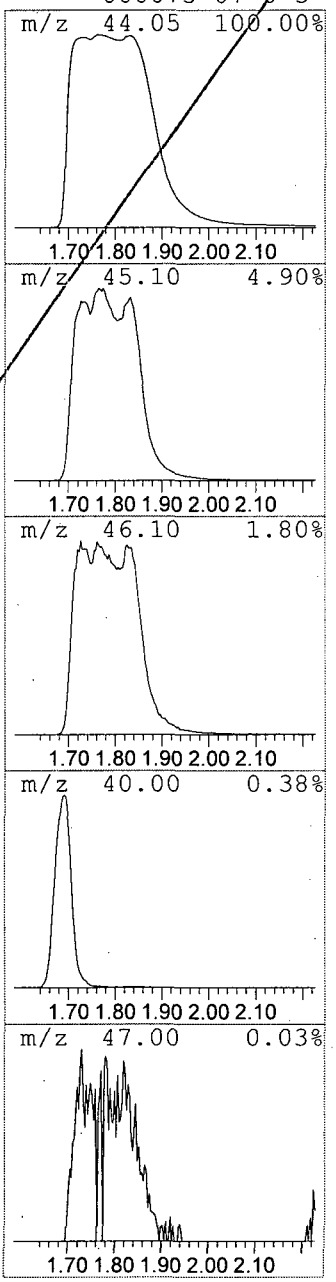
****

Peak Number 1 Ethylene oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.73	203.89 ug/L	17940900	1,4-Difluorobenzene	6.40

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





Co2

000000300

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2595.D
Acq On : 15 Mar 2010 12:20
Sample : 0030155-BLK1
Misc : VBLK07 25ML
MS Integration Params: Lscint.p

Vial: 4
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

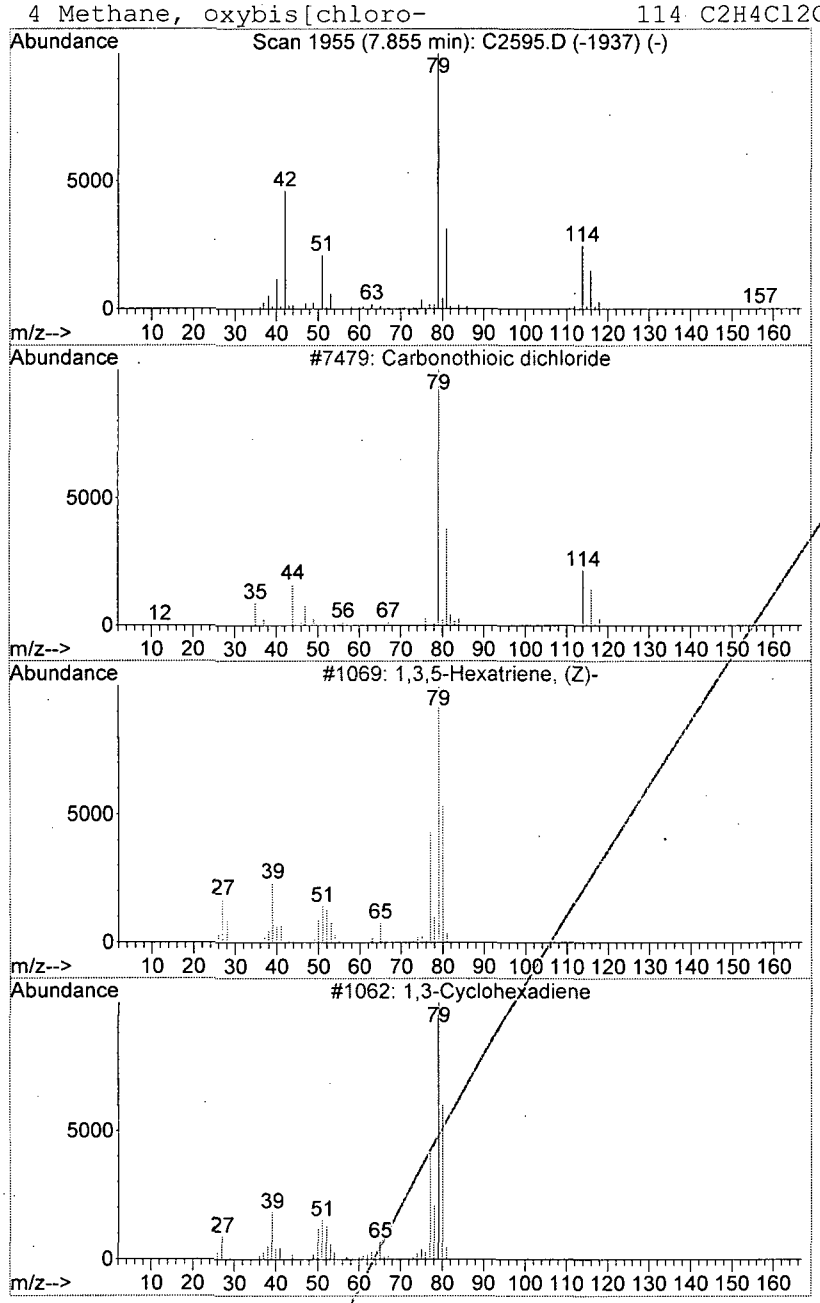
****

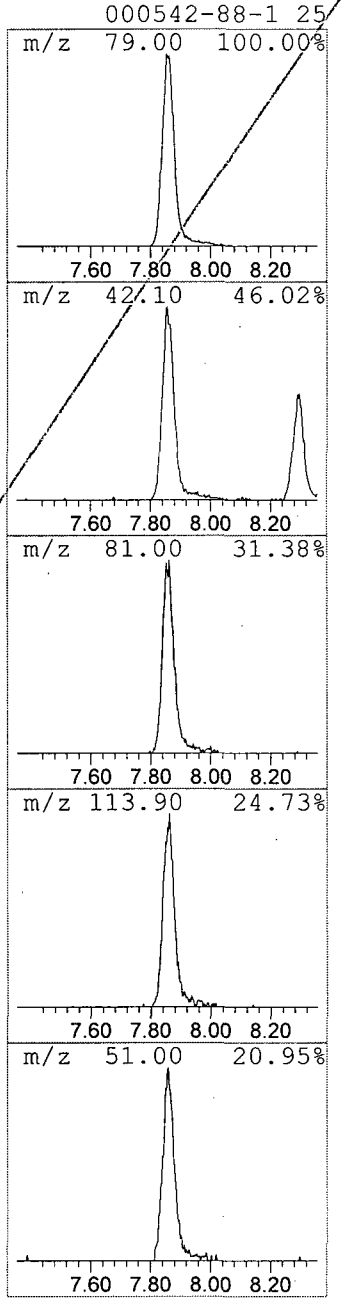
Peak Number 2 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	3.94 ug/L	346719	1,4-Difluorobenzene	6.40

One artefact

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	40
2	1,3,5-Hexatriene, (Z)-	80	C6H8	002612-46-6	37
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	32
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25





000000381

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 15 Mar 2010 12:20
Data File: C:\MSDCHEM\1\DATA\C2595.D
Name: 0030155-BLK1
Misc: VBLK07 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethylene oxide	1.73	203.9	ug/L	17940900	1	6.40	439958	5.0
Carbonothioic dic...	7.86	3.9	ug/L	346719	1	6.40	439958	5.0

000000302

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

EPA SAMPLE NO.
VHBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-09

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2597.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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
79-01-6	Trichloroethene	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.
VHBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-09

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2597.D

Level: (TRACE/LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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
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.
VHBLK55

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0011765-09

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2597.D

Level: (TRACE or LOW/MED) TRACE Date Received:

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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.

000000385

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2597.D Vial: 6
Acq On : 15 Mar 2010 13:19 Operator: SP
Sample : 0011765-09 Inst : C-5973
Misc : VHBLK55 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:33:11 2010 Quant Results File: SOTC2594.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

Dw 3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	182361	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	159137	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	90513	5.0000 ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.22	65	102973	4.9243 ug/L	-0.03
Spiked Amount 5.0000	Range 65 - 131		Recovery = 98.49%		
7) Chloroethane-d5	2.61	69	85031	4.8291 ug/L	-0.02
Spiked Amount 5.0000	Range 71 - 131		Recovery = 96.58%		
10) 1,1-Dichloroethene-d2	3.33	63	91102	3.7274 ug/L	-0.01
Spiked Amount 5.0000	Range 55 - 104		Recovery = 74.55%		
20) 2-Butanone-d5	4.94	46	46620	47.6485 ug/L	-0.01
Spiked Amount 50.0000	Range 49 - 155		Recovery = 95.30%		
24) Chloroform-d	5.31	84	96243	4.3776 ug/L	-0.01
Spiked Amount 5.0000	Range 78 - 121		Recovery = 87.55%		
26) 1,2-Dichloroethane-d4	5.89	65	48366	4.4534 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 89.07%		
32) Benzene-d6	5.93	84	226588	4.7026 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 94.05%		
35) 1,2-Dichloropropane-d6	6.88	67	61516	4.3567 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 87.13%		
41) Toluene-d8	8.29	98	209144	4.5068 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 90.14%		
43) trans-1,3-Dichloropropene-	8.62	79	54003	4.1923 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 83.85%		
47) 2-Hexanone-d5	9.21	63	35683	46.3233 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 92.65%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	45266	4.4208 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 88.42%		
63) 1,2-Dichlorobenzene-d4	13.59	152	88570	4.6598 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 93.20%		

Target Compounds Qvalue

00000306

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

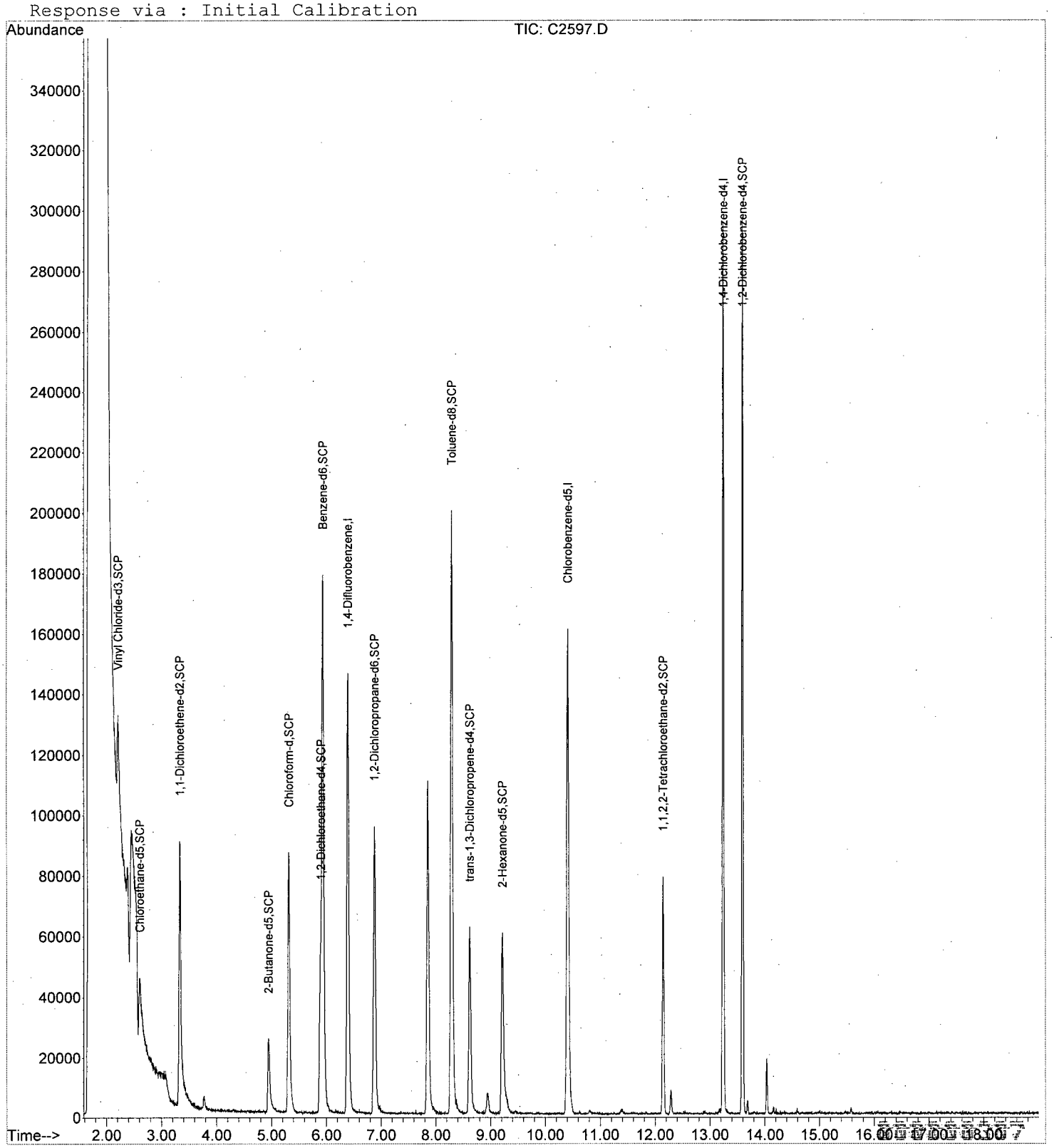
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2597.D
Acq On : 15 Mar 2010 13:19
Sample : 0011765-09
Misc : VHBLK55 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:33 2010

Vial: 6
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2594.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\C2597.D Vial: 6
Acq On : 15 Mar 2010 13:19 Operator: SP
Sample : 0011765-09 Inst : C-5973
Misc : VHBLK55 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.2 Max Peaks: 40
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

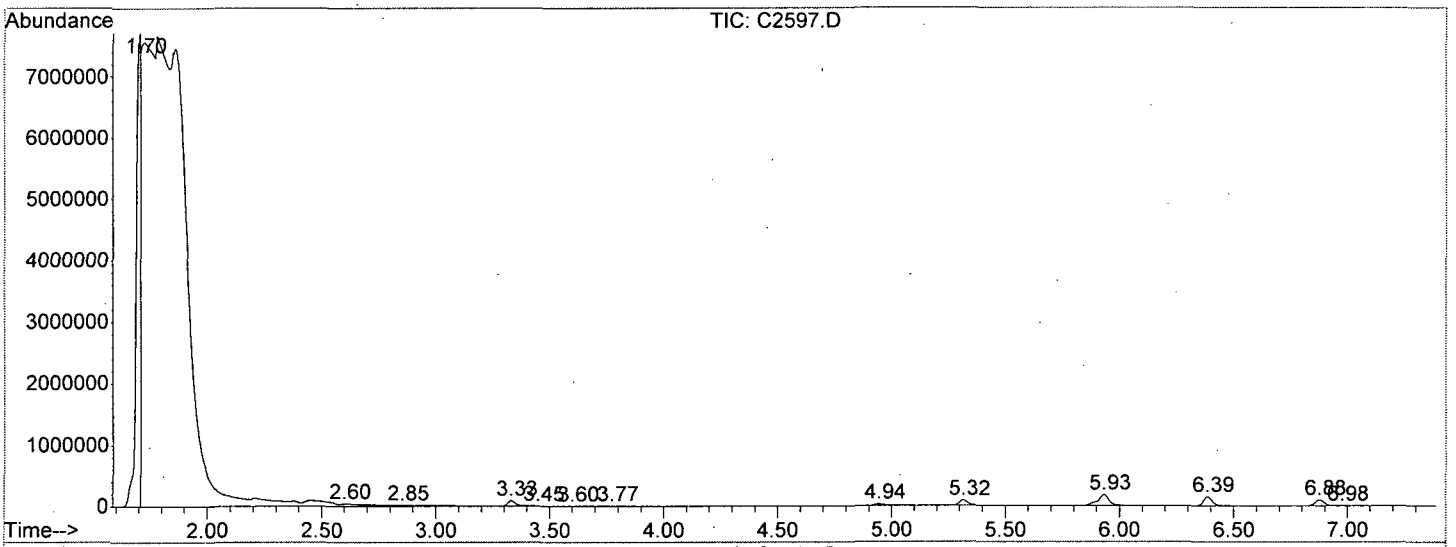
Signal : TIC

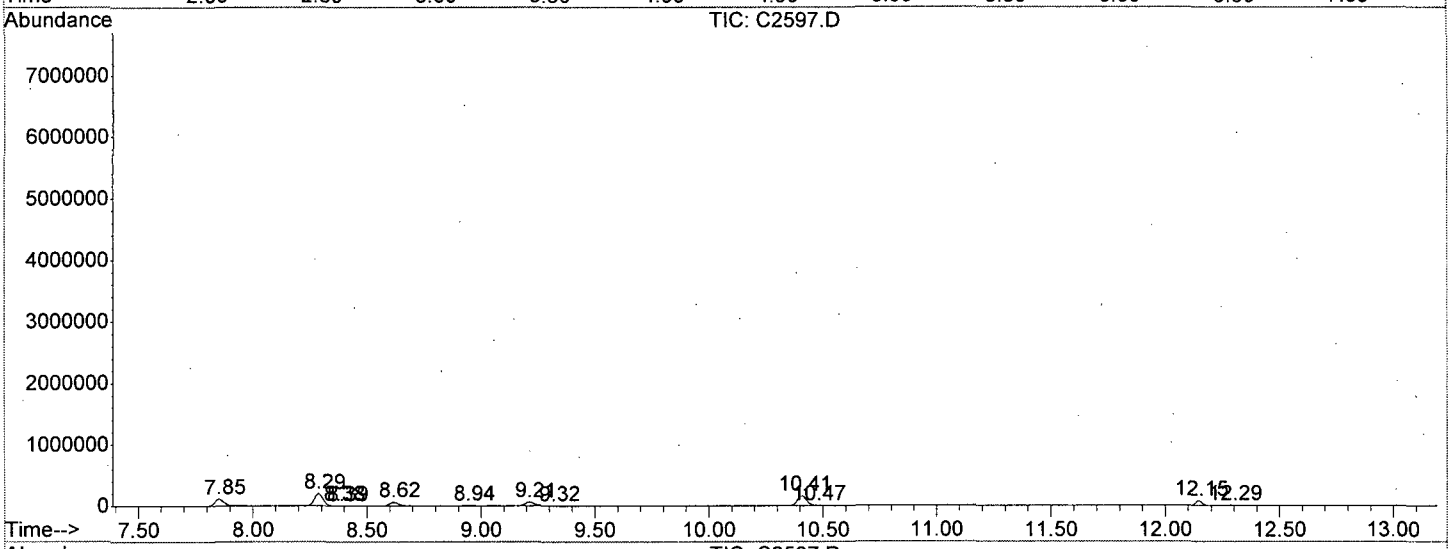
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.704	9	38	39	rBV	7706486	10849624	100.00%	70.591%
2	2.599	312	317	318	rBV2	16055	12728	0.12%	0.083%
3	2.852	394	396	399	rBV4	2635	1549	0.01%	0.010%
4	3.331	532	545	557	rBV2	87600	192593	1.78%	1.253%
5	3.449	580	582	588	rVB5	2115	2004	0.02%	0.013%
6	3.600	627	629	632	rBV3	1886	1193	0.01%	0.008%
7	3.773	676	683	690	rBV5	3878	6332	0.06%	0.041%
8	4.945	1036	1048	1070	rBV2	24765	67012	0.62%	0.436%
9	5.317	1148	1164	1191	rBV2	85932	222504	2.05%	1.448%
10	5.933	1329	1356	1379	rBV3	178084	590173	5.44%	3.840%
11	6.385	1480	1497	1519	rBV2	145541	377507	3.48%	2.456%
12	6.876	1633	1650	1674	rBV3	95259	253378	2.34%	1.649%
13	6.976	1679	1681	1684	rVB3	2484	1217	0.01%	0.008%
14	7.852	1935	1954	1974	rBV	110259	291218	2.68%	1.895%
15	8.288	2069	2090	2114	rBV	199759	526460	4.85%	3.425%
16	8.375	2114	2117	2120	rVV3	3589	2515	0.02%	0.016%
17	8.388	2120	2121	2127	rVB3	1974	1196	0.01%	0.008%
18	8.616	2177	2192	2215	rBV2	61578	158467	1.46%	1.031%
19	8.943	2282	2294	2295	rBV4	6661	9572	0.09%	0.062%
20	9.213	2359	2378	2397	rBV3	60258	173582	1.60%	1.129%
21	9.318	2410	2411	2419	rVB3	1728	1330	0.01%	0.009%
22	10.409	2732	2751	2768	rBV2	160413	436297	4.02%	2.839%
23	10.470	2768	2770	2776	rVB2	5597	3892	0.04%	0.025%
24	12.145	3279	3292	3309	rBV3	78605	148636	1.37%	0.967%
25	12.293	3329	3338	3346	rBV4	7938	13103	0.12%	0.085%
26	13.243	3619	3634	3647	rBV	294896	503283	4.64%	3.274%
27	13.400	3676	3683	3687	rBV2	940	1244	0.01%	0.008%
28	13.593	3730	3743	3757	rBV	296790	487312	4.49%	3.171%
29	13.686	3765	3772	3776	rBV4	4709	5439	0.05%	0.035%
30	14.036	3873	3881	3892	rVB	18625	25586	0.24%	0.166%
31	14.154	3913	3918	3920	rBV2	2235	1641	0.02%	0.011%
32	16.015	4489	4498	4500	rBV	1034	1200	0.01%	0.008%

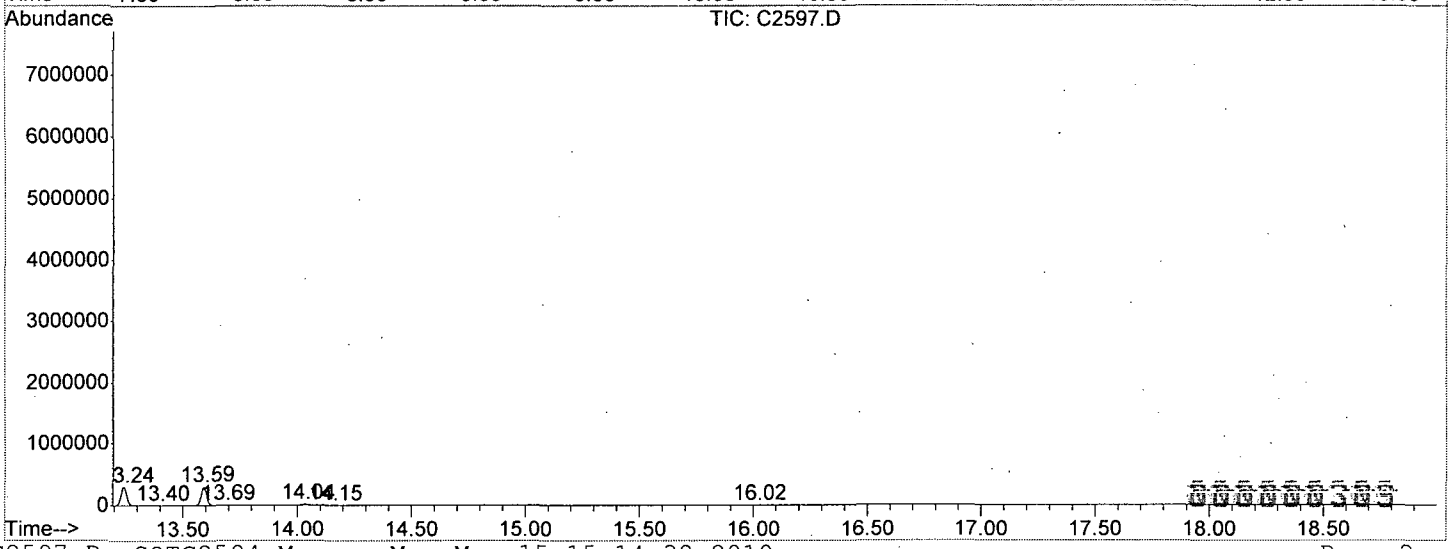
Sum of corrected areas: 15369787

LSC Report - Integrated Chromatogram

Data File : C:\MSDCHEM\1\DATA\C2597.D Vial: 6
Acq On : 15 Mar 2010 13:19 Operator: SP
Sample : 0011765-09 Inst : C-5973
Misc : VHBLK55 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML







Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2597.D Vial: 6
Acq On : 15 Mar 2010 13:19 Operator: SP
Sample : 0011765-09 Inst : C-5973
Misc : VHBLK55 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

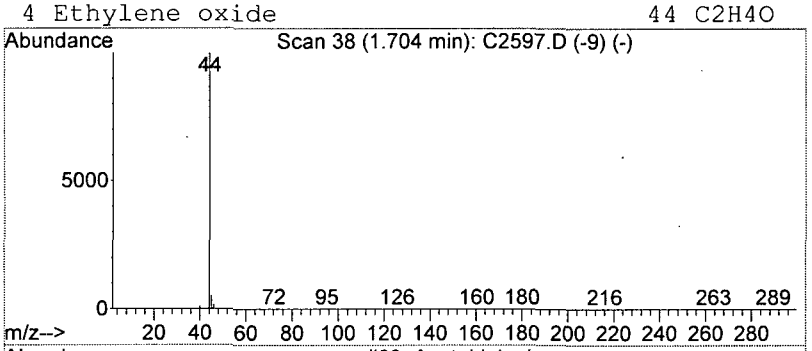
Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

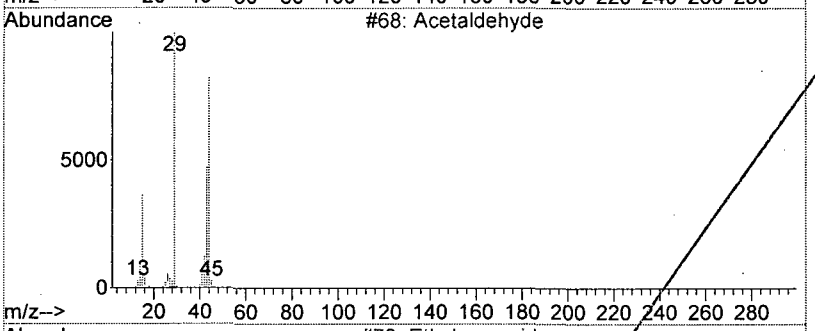
****

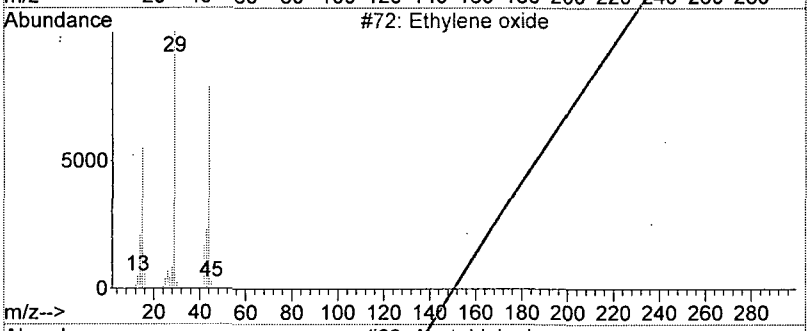
Peak Number 1 Acetaldehyde Concentration Rank 1

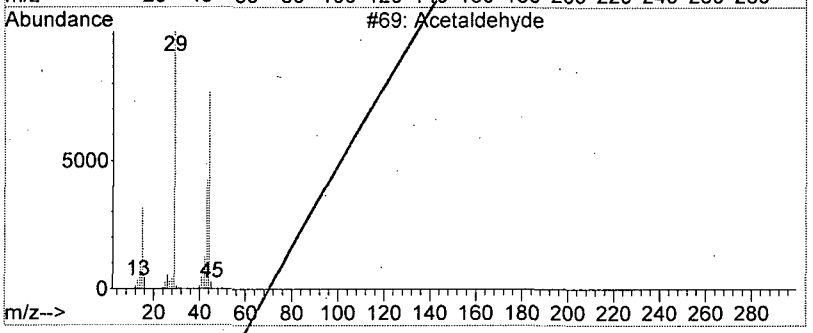
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.70	143.70 ug/L	10849600	1,4-Difluorobenzene	6.39

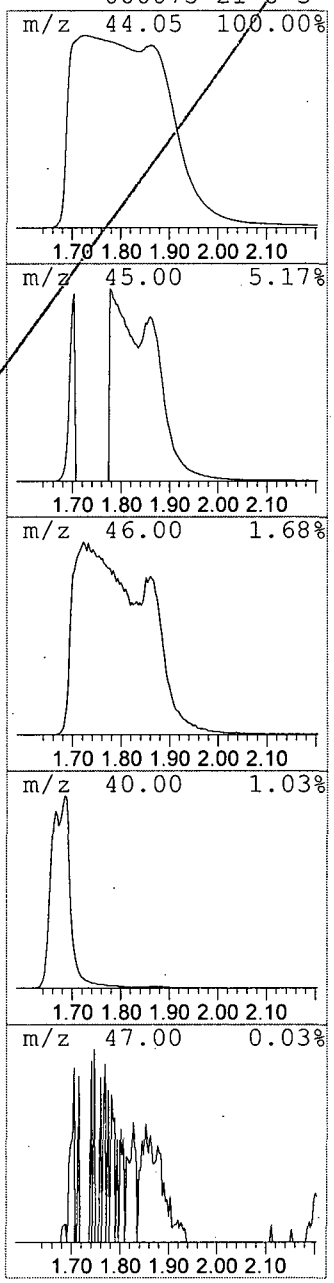
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	4
2	Ethylene oxide	44	C2H4O	000075-21-8	3
3	Acetaldehyde	44	C2H4O	000075-07-0	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3











Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\C2597.D Vial: 6
Acq On : 15 Mar 2010 13:19 Operator: SP
Sample : 0011765-09 Inst : C-5973
Misc : VHBLK55 25ML Multiplr: 1.00
MS Integration Params: Lscint.p

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Library : C:\DATABASE\NIST02.L

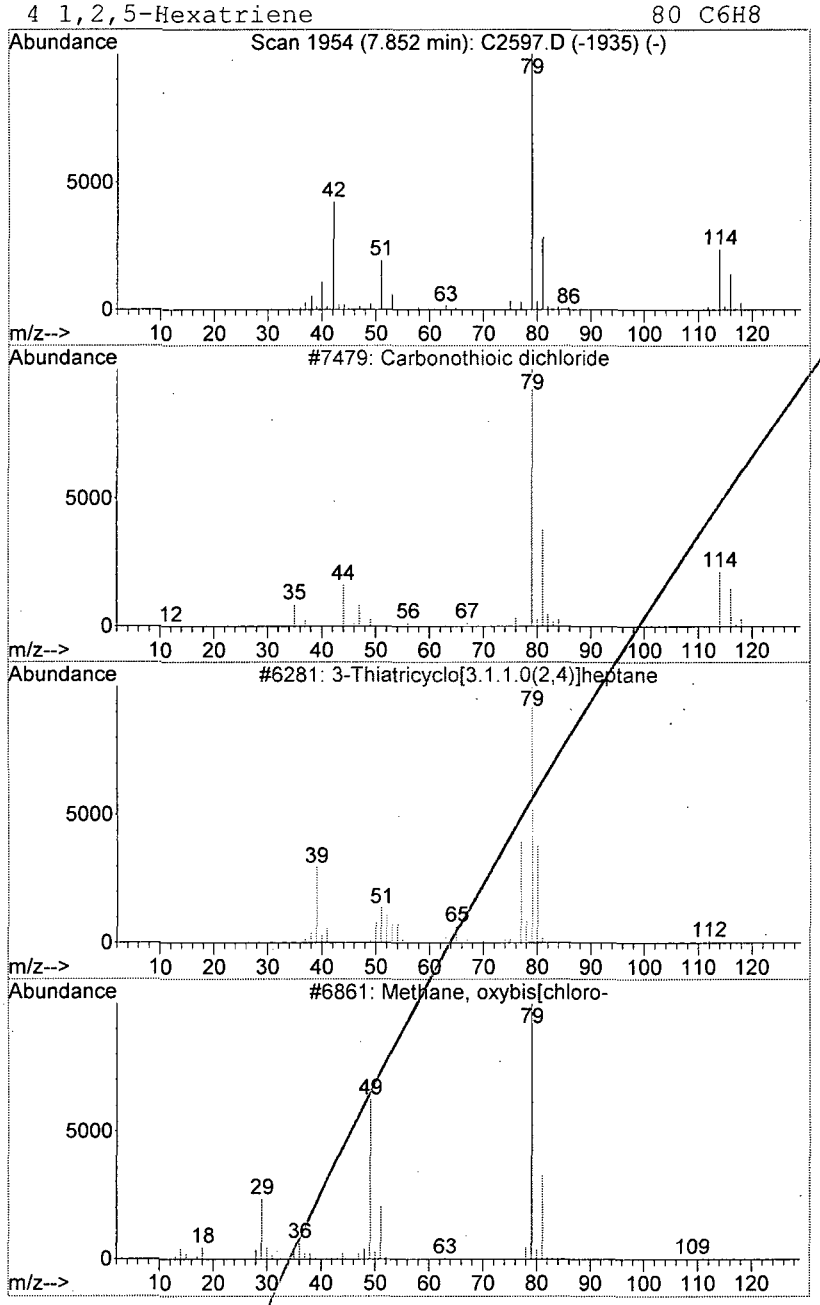
Dme artefact

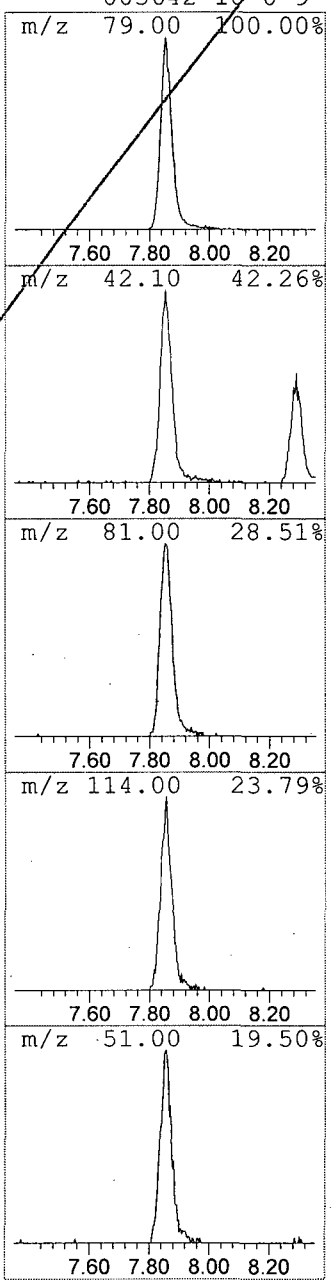
****

Peak Number 2 Carbonothioic dichloride Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.85	3.86 ug/L	291218	1,4-Difluorobenzene	6.39

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	37
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	25
4	1,2,5-Hexatriene	80	C6H8	003642-18-0	9





000000311

Tentatively Identified Compound (LSC) summary

Operator ID: SP Date Acquired: 15 Mar 2010 13:19
Data File: C:\MSDCHEM\1\DATA\C2597.D
Name: 0011765-09
Misc: VHBLK55 25ML
Method: C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title: CLP SOM1.2 TVOA-WATER -25ML
Library Searched: C:\DATABASE\NIST02.L

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Acetaldehyde	1.70	143.7	ug/L	10849600	1	6.39	377507	5.0
Carbonothioic dic...	7.85	3.9	ug/L	291218	1	6.39	377507	5.0

000000312

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

EPA SAMPLE NO.
F3FY3MS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030145-MS1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2587.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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	5.2	
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	0.75	
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	5.7	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	5.8	

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

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

EPA SAMPLE NO.

F3FY3MS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030145-MS1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2587.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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
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	5.5	
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	5.2	
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.
F3FY3MS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030145-MS1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2587.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/13/2010

GC Column: DB-624 ID: 0.20 (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\C2587.D
Acq On : 13 Mar 2010 1:41
Sample : 0030145-MS1
Misc : F3FY3MS 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 13 11:47:47 2010

Vial: 29
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2570.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.38	114	158494	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	134026	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	63004	5.0000 ug/L	0.00

System Monitoring Compounds					
4) Vinyl Chloride-d3	2.22	65	99621	5.4814 ug/L	-0.02
Spiked Amount 5.0000	Range 65 - 131		Recovery = 109.63%		
7) Chloroethane-d5	2.62	69	86859	5.6757 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 113.51%		
10) 1,1-Dichloroethene-d2	3.33	63	124476	5.8598 ug/L	-0.02
Spiked Amount 5.0000	Range 55 - 104		Recovery = 117.20%#		
20) 2-Butanone-d5	4.94	46	26901	31.6347 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 63.27%		
24) Chloroform-d	5.31	84	94285	4.9344 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 98.69%		
26) 1,2-Dichloroethane-d4	5.89	65	40087	4.2469 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 84.94%		
32) Benzene-d6	5.93	84	236064	5.8172 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 116.34%		
35) 1,2-Dichloropropane-d6	6.88	67	59221	4.9799 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 99.60%		
41) Toluene-d8	8.29	98	224331	5.7397 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 114.79%		
43) trans-1,3-Dichloropropene-	8.62	79	32938	3.0361 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 60.72%#		
47) 2-Hexanone-d5	9.21	63	18455	28.4469 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 56.89%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	27678	3.2095 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 64.19%#		
63) 1,2-Dichlorobenzene-d4	13.60	152	68757	5.1969 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 103.94%		

Target Compounds					Qvalue
11) 1,1-Dichloroethene	3.34	96	58741	5.2430 ug/L	92
16) Methylene Chloride	3.77	84	10154	0.7481 ug/L	92
33) Benzene	5.98	78	252925	5.6630 ug/L	100
34) Trichloroethene	6.72	95	63495	5.8252 ug/L	97
42) Toluene	8.38	91	274275	5.5319 ug/L	98
51) Chlorobenzene	10.45	112	173431	5.1780 ug/L	100

000000316

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

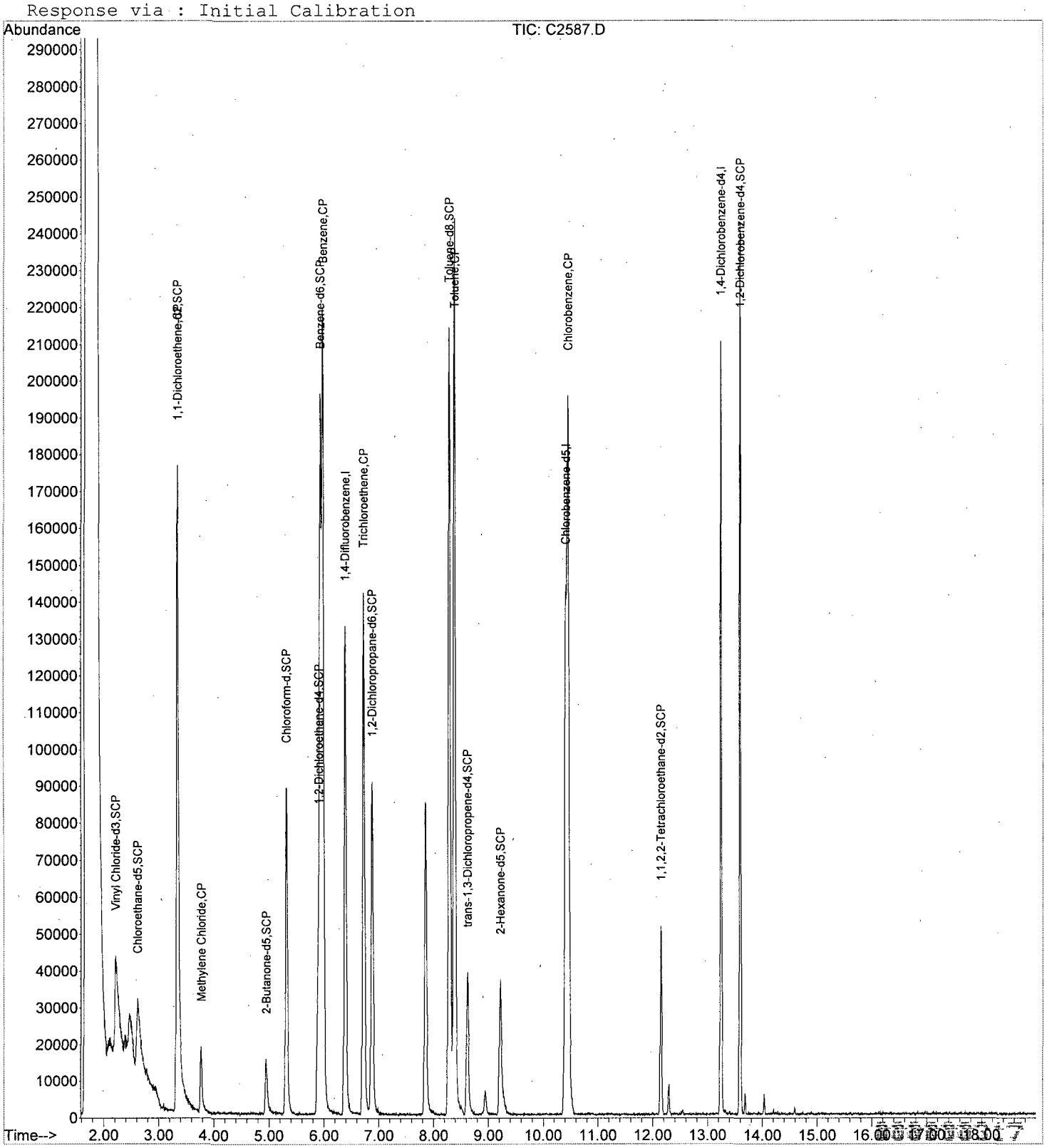
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\C2587.D
Acq On : 13 Mar 2010 1:41
Sample : 0030145-MS1
Misc : F3FY3MS 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 15:10 2010

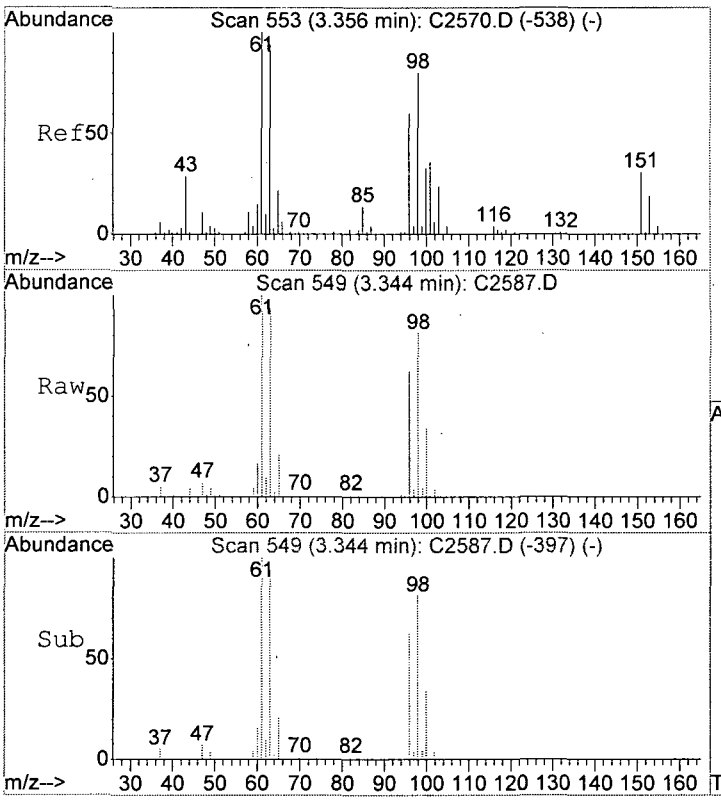
Vial: 29
Operator: SP
Inst : C-5973
Multiplr: 1.00

Quant Results File: SOTC2570.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Fri Mar 12 18:31:17 2010
Response via : Initial Calibration



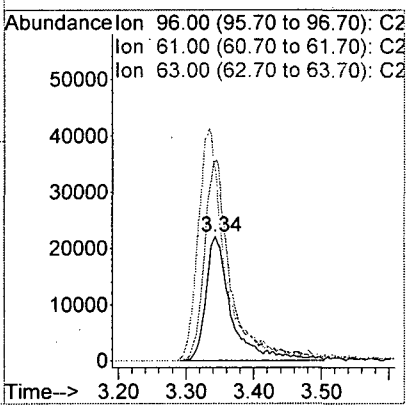
Data File : C:\MSDCHEM\1\DATA\C2587.D Vial: 29
Acq On : 13 Mar 2010 1:41 Operator: SP
Sample : 0030145-MS1 Inst : C-5973
Misc : F3FY3MS 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

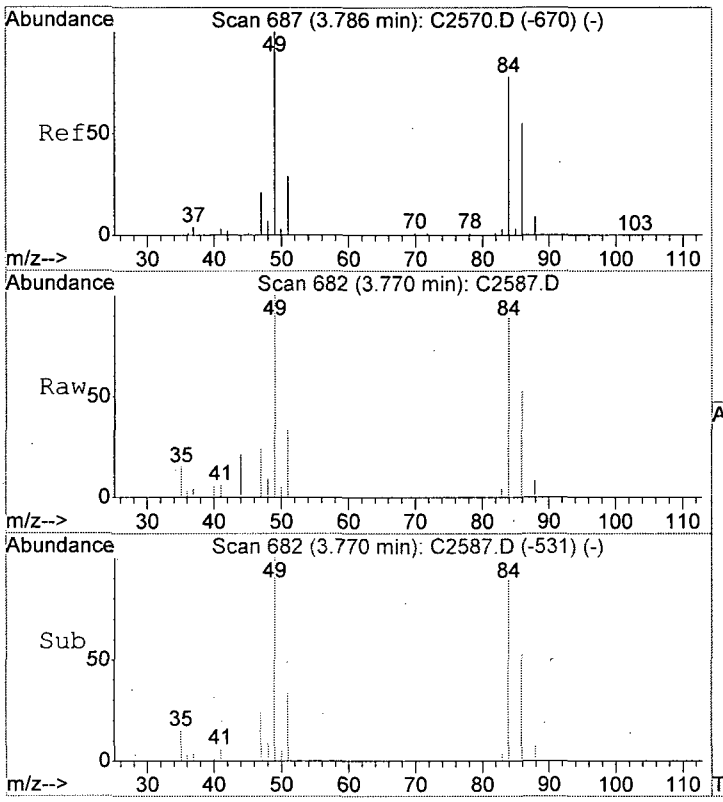


#11
1,1-Dichloroethene
Concen: 5.2430 ug/L
RT: 3.34 min Scan# 549
Delta R.T. -0.01 min
Lab File: C2587.D
Acq: 13 Mar 2010 1:41

Tgt Ion: 96 Resp: 58741

Ion	Ratio	Lower	Upper
96	100		
61	174.3	145.0	185.0
63	211.9	177.6	217.6

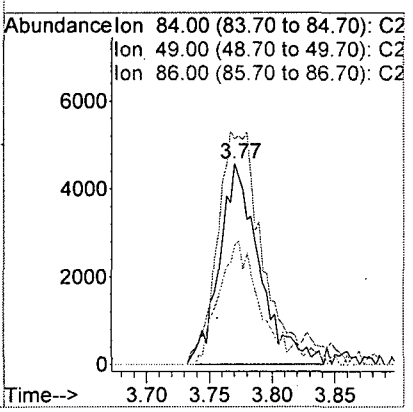




#16
Methylene Chloride
Concen: 0.7481 ug/L
RT: 3.77 min Scan# 682
Delta R.T. -0.02 min
Lab File: C2587.D
Acq: 13 Mar 2010 1:41

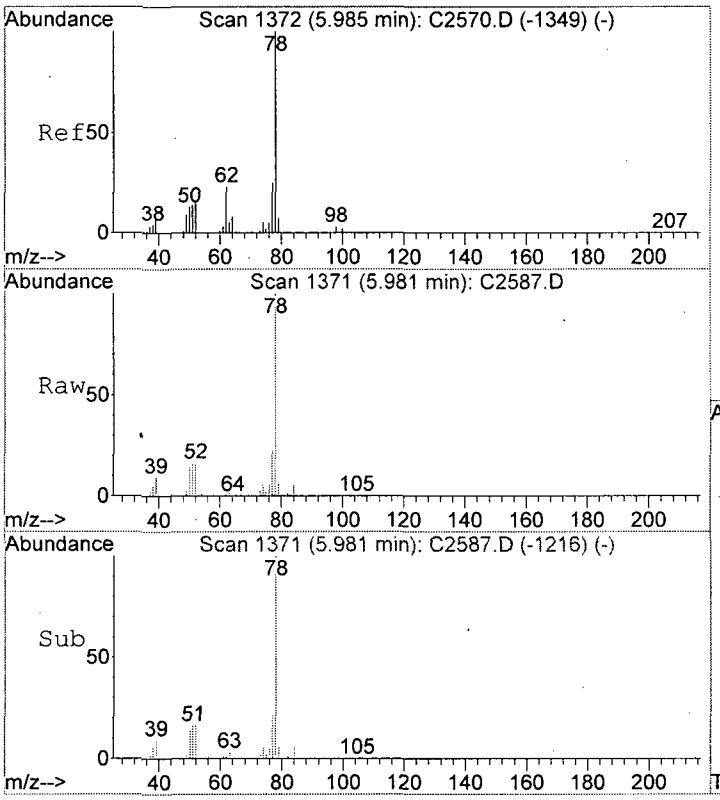
Tgt Ion: 84 Resp: 10154

Ion	Ratio	Lower	Upper
84	100		
49	135.7	102.8	142.8
86	65.9	44.9	84.9



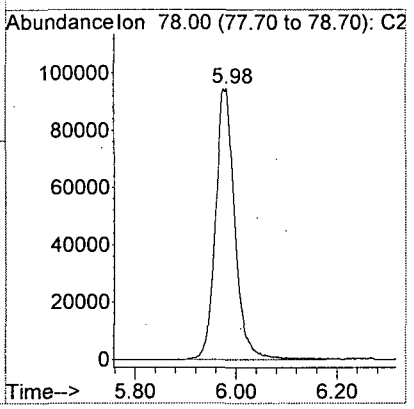
000000318

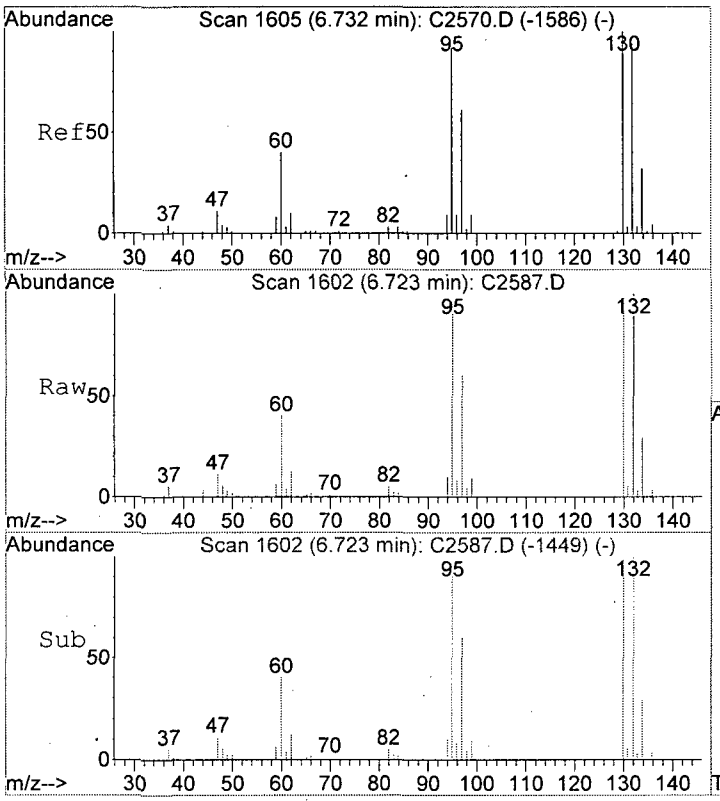
Data File : C:\MSDCHEM\1\DATA\C2587.D Vial: 29
Acq On : 13 Mar 2010 1:41 Operator: SP
Sample : 0030145-MS1 Inst : C-5973
Misc : F3FY3MS 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#33
Benzene
Concen: 5.6630 ug/L
RT: 5.98 min Scan# 1371
Delta R.T. -0.00 min
Lab File: C2587.D
Acq: 13 Mar 2010 1:41

Tgt Ion: 78 Resp: 252925

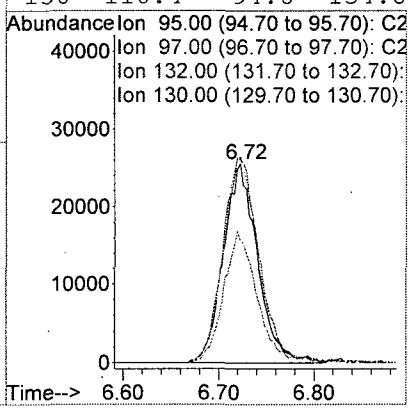




#34
Trichloroethene
Concen: 5.8252 ug/L
RT: 6.72 min Scan# 1602
Delta R.T. -0.01 min
Lab File: C2587.D
Acq: 13 Mar 2010 1:41

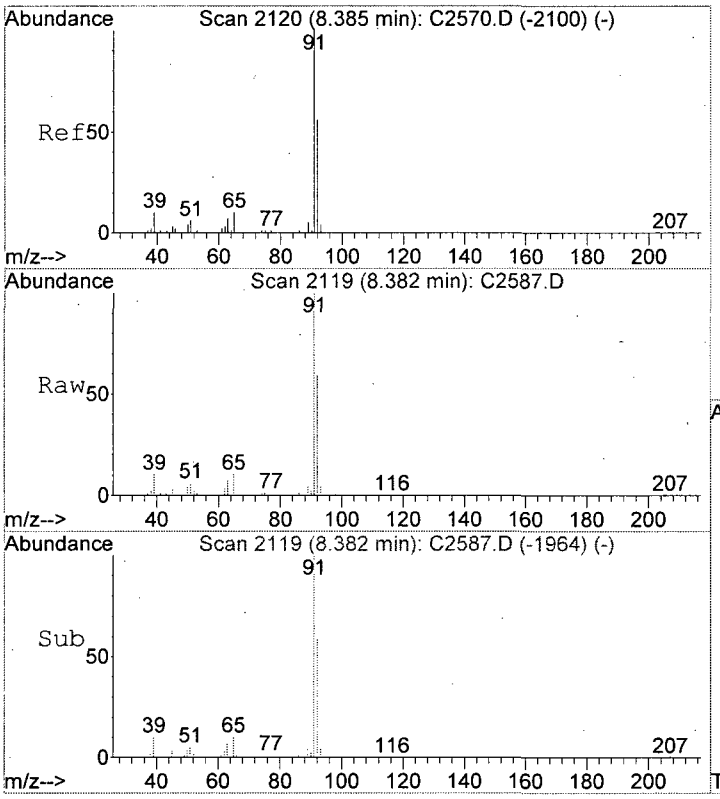
Tgt Ion: 95 Resp: 63495

Ion	Ratio	Lower	Upper
95	100		
97	64.3	43.8	83.8
132	106.8	91.3	131.3
130	110.4	94.8	134.8



000000319

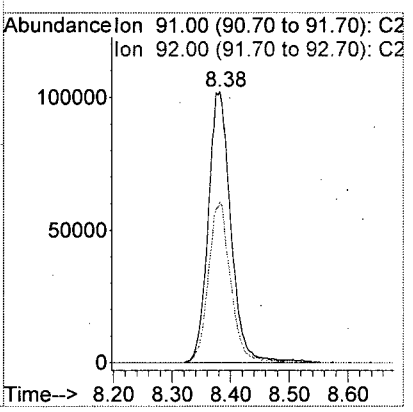
Data File : C:\MSDCHEM\1\DATA\C2587.D Vial: 29
Acq On : 13 Mar 2010 1:41 Operator: SP
Sample : 0030145-MS1 Inst : C-5973
Misc : F3FY3MS 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2570.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

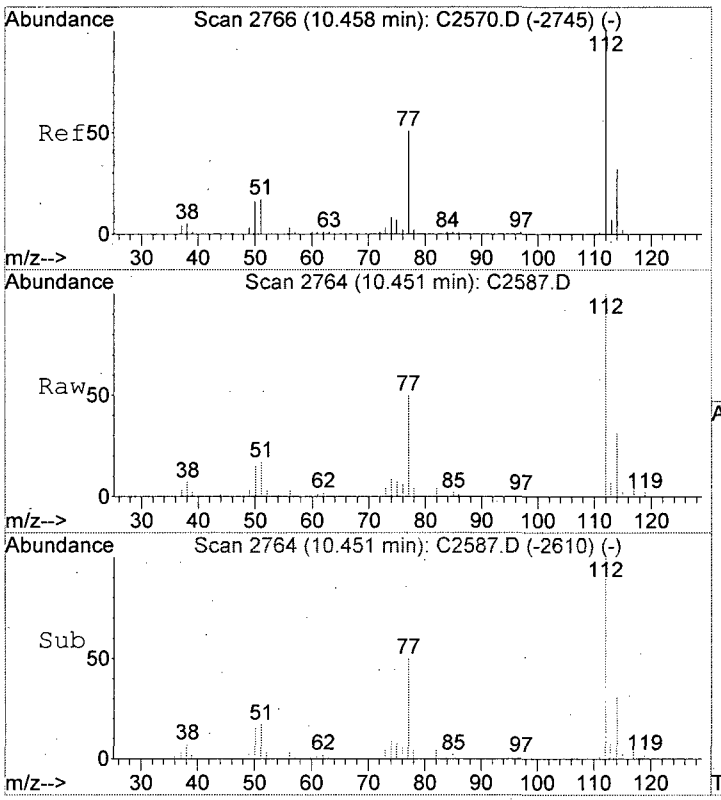


#42
Toluene
Concen: 5.5319 ug/L
RT: 8.38 min Scan# 2119
Delta R.T. -0.00 min
Lab File: C2587.D
Acq: 13 Mar 2010 1:41

Tgt Ion: 91 Resp: 274275

Ion	Ratio	Lower	Upper
91	100		
92	58.5	39.6	79.6

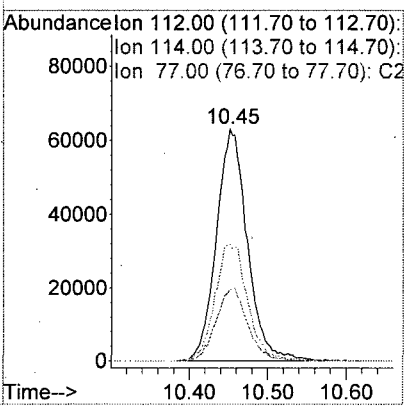




#51
Chlorobenzene
Concen: 5.1780 ug/L
RT: 10.45 min Scan# 2764
Delta R.T. -0.01 min
Lab File: C2587.D
Acq: 13 Mar 2010 1:41

Tgt Ion:112 Resp: 173431

Ion	Ratio	Lower	Upper
112	100		
114	32.2	11.8	51.8
77	53.6	33.5	73.5



000000320

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

EPA SAMPLE NO.

F3FY3MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030155-MSD1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2596.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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	4.5	
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	4.2	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	4.2	

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

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

EPA SAMPLE NO.
F3FY3MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030155-MSD1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2596.D

Level: (TRACE/LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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
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	4.2	
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	4.1	
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

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

EPA SAMPLE NO.
F3FY3MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 39551 Mod. Ref No.: SDG No.: F3FY1

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0030155-MSD1

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: C2596.D

Level: (TRACE or LOW/MED) TRACE Date Received: 03/10/2010

% Moisture: not dec. Date Analyzed: 03/15/2010

GC Column: DB-624 ID: 0.20 (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\C2596.D
Acq On : 15 Mar 2010 12:53
Sample : 0030155-MSD1
Misc : F3FY3MSD 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:31:23 2010

Vial: 5
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2594.RES

Quant Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration
DataAcq Meth : VOAC

3/15/10

3/15/10

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	6.39	114	226185	5.0000 ug/L	0.00
28) Chlorobenzene-d5	10.41	117	205244	5.0000 ug/L	0.00
59) 1,4-Dichlorobenzene-d4	13.24	152	106139	5.0000 ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc Units	Dev(Min)
4) Vinyl Chloride-d3	2.24	65	130105	5.0163 ug/L	0.00
Spiked Amount 5.0000	Range 65 - 131		Recovery = 100.33%		
7) Chloroethane-d5	2.62	69	107442	4.9196 ug/L	0.00
Spiked Amount 5.0000	Range 71 - 131		Recovery = 98.39%		
10) 1,1-Dichloroethene-d2	3.35	63	151231	4.9887 ug/L	0.00
Spiked Amount 5.0000	Range 55 - 104		Recovery = 99.77%		
20) 2-Butanone-d5	4.96	46	52812	43.5188 ug/L	0.00
Spiked Amount 50.0000	Range 49 - 155		Recovery = 87.04%		
24) Chloroform-d	5.32	84	116359	4.2672 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 121		Recovery = 85.34%		
26) 1,2-Dichloroethane-d4	5.89	65	56139	4.1676 ug/L	0.00
Spiked Amount 5.0000	Range 78 - 129		Recovery = 83.35%		
32) Benzene-d6	5.94	84	281778	4.5343 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 124		Recovery = 90.69%		
35) 1,2-Dichloropropane-d6	6.88	67	74089	4.0684 ug/L	0.00
Spiked Amount 5.0000	Range 79 - 124		Recovery = 81.37%		
41) Toluene-d8	8.29	98	267761	4.4737 ug/L	0.00
Spiked Amount 5.0000	Range 77 - 121		Recovery = 89.47%		
43) trans-1,3-Dichloropropene-	8.63	79	66498	4.0026 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 121		Recovery = 80.05%		
47) 2-Hexanone-d5	9.22	63	41288	41.5588 ug/L	0.00
Spiked Amount 50.0000	Range 28 - 135		Recovery = 83.12%		
57) 1,1,2,2-Tetrachloroethane-	12.15	84	52212	3.9536 ug/L	0.00
Spiked Amount 5.0000	Range 73 - 125		Recovery = 79.07%		
63) 1,2-Dichlorobenzene-d4	13.59	152	97537	4.3761 ug/L	0.00
Spiked Amount 5.0000	Range 80 - 131		Recovery = 87.52%		

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
11) 1,1-Dichloroethene	3.36	96	71905	4.4972 ug/L	95
33) Benzene	5.98	78	289141	4.2275 ug/L	100
34) Trichloroethene	6.72	95	70275	4.2101 ug/L	98
42) Toluene	8.38	91	320152	4.2166 ug/L	99
51) Chlorobenzene	10.46	112	210328	4.1007 ug/L	99

000000324

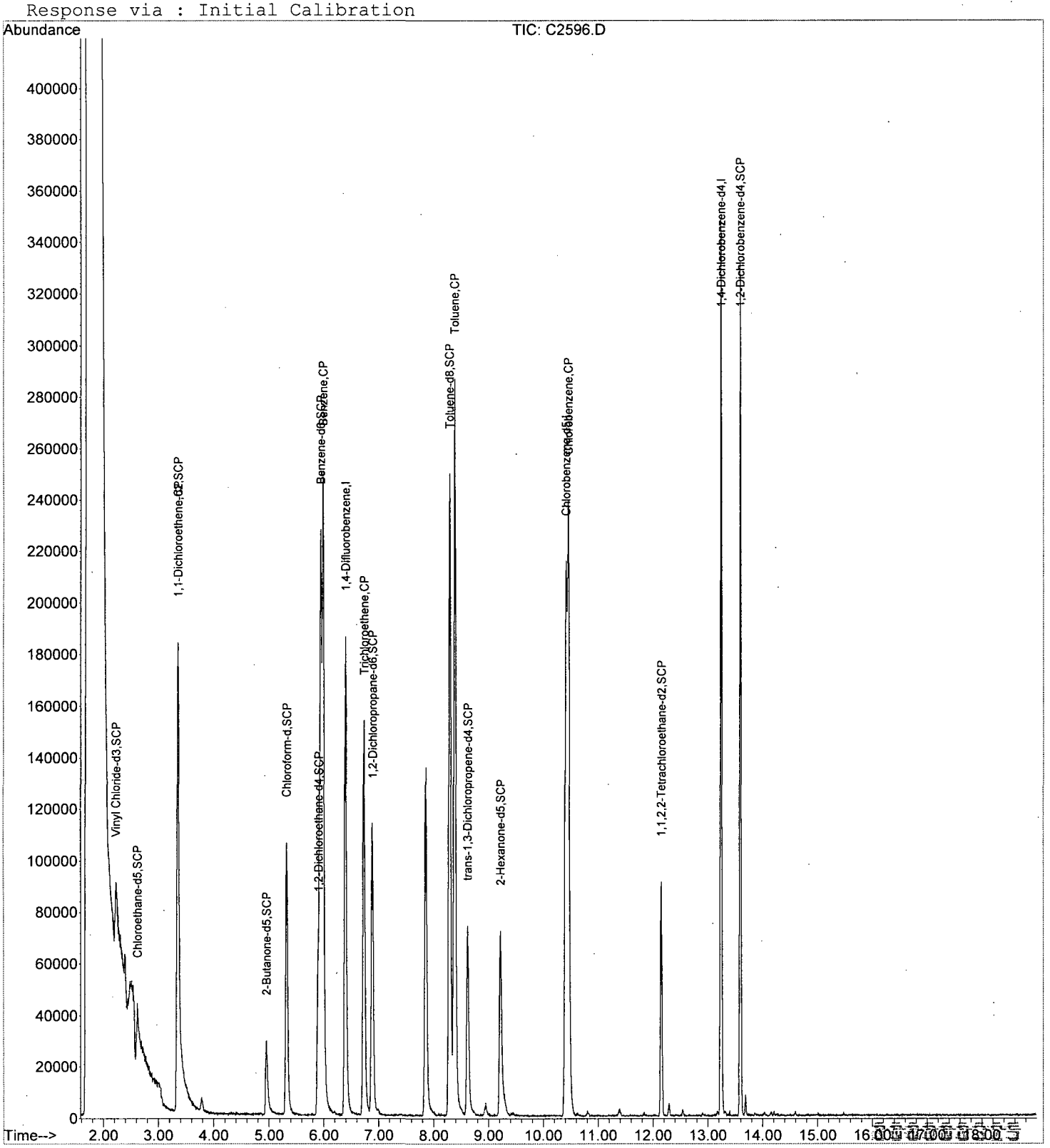
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

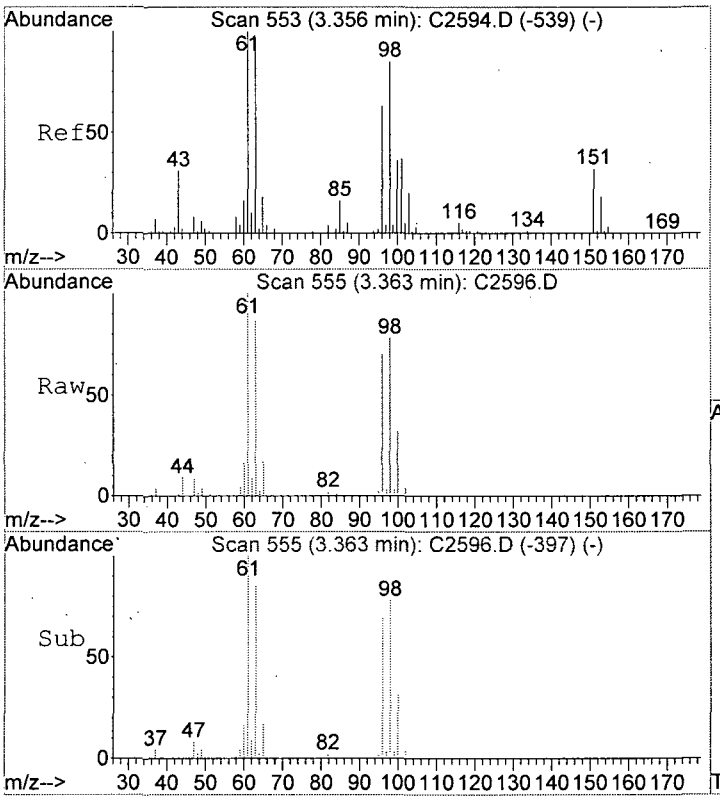
Data File : C:\MSDCHEM\1\DATA\C2596.D
Acq On : 15 Mar 2010 12:53
Sample : 0030155-MSD1
Misc : F3FY3MSD 25ML
MS Integration Params: RTEINT.P
Quant Time: Mar 15 14:32 2010

Vial: 5
Operator: SP
Inst : C-5973
Multiplr: 1.00
Quant Results File: SOTC2594.RES

Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML
Last Update : Mon Mar 15 12:04:19 2010
Response via : Initial Calibration



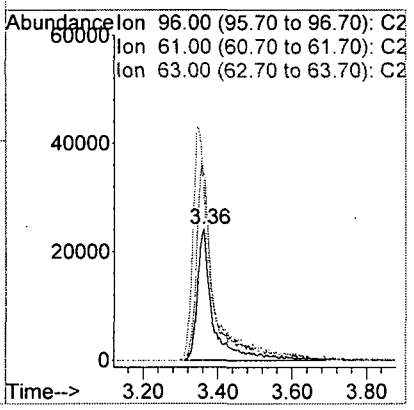
Data File : C:\MSDCHEM\1\DATA\C2596.D Vial: 5
Acq On : 15 Mar 2010 12:53 Operator: SP
Sample : 0030155-MSD1 Inst : C-5973
Misc : F3FY3MSD 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

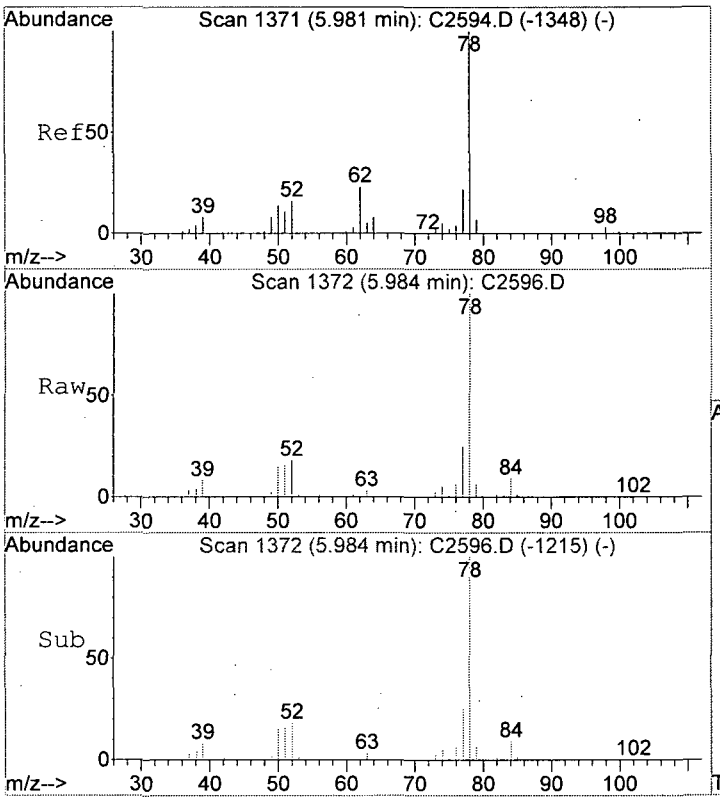


#11
1,1-Dichloroethene
Concen: 4.4972 ug/L
RT: 3.36 min Scan# 555
Delta R.T. 0.01 min
Lab File: C2596.D
Acq: 15 Mar 2010 12:53

Tgt Ion: 96 Resp: 71905

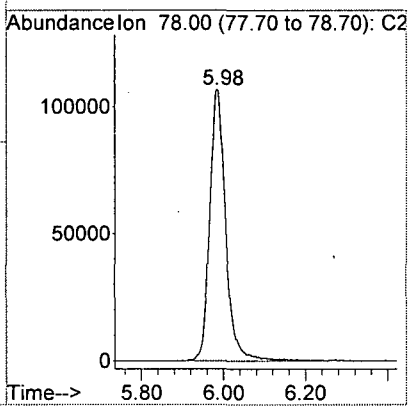
Ion	Ratio	Lower	Upper
96	100		
61	164.9	145.0	185.0
63	210.3	177.6	217.6





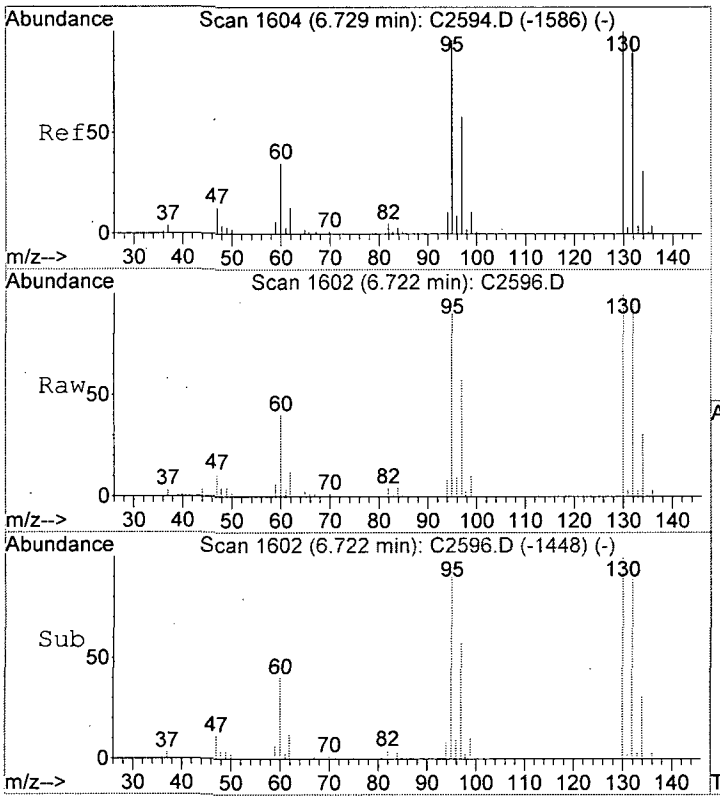
#33
Benzene
Concen: 4.2275 ug/L
RT: 5.98 min Scan# 1372
Delta R.T. 0.00 min
Lab File: C2596.D
Acq: 15 Mar 2010 12:53

Tgt Ion: 78 Resp: 289141



000000326

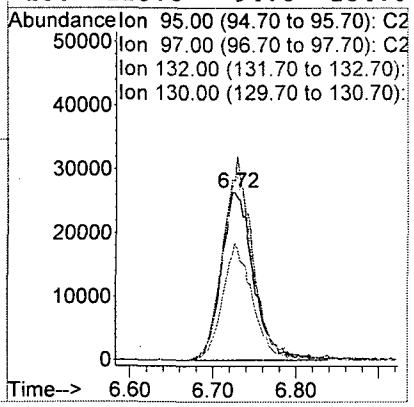
Data File : C:\MSDCHEM\1\DATA\C2596.D Vial: 5
Acq On : 15 Mar 2010 12:53 Operator: SP
Sample : 0030155-MSD1 Inst : C-5973
Misc : F3FY3MSD 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML

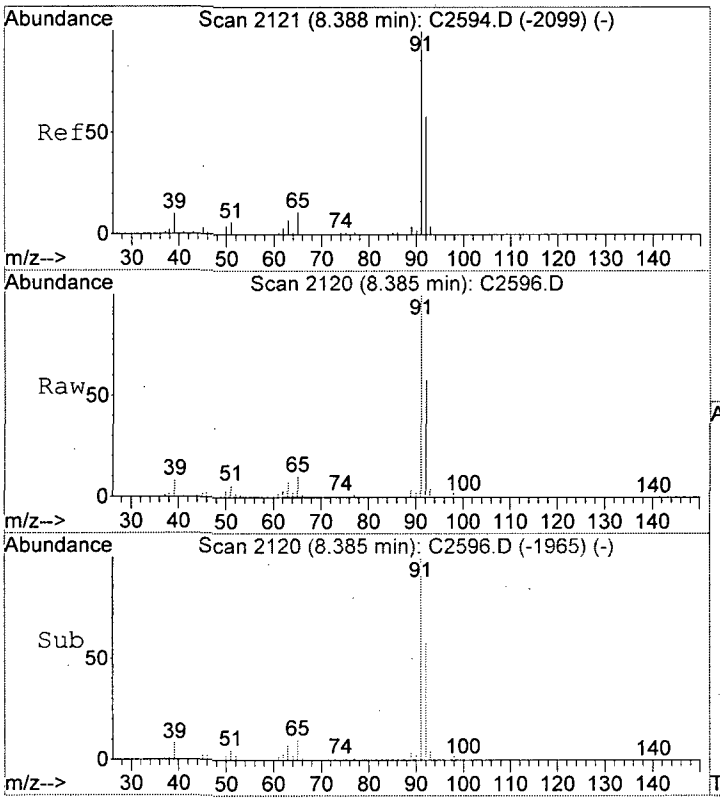


#34
Trichloroethene
Concen: 4.2101 ug/L
RT: 6.72 min Scan# 1602
Delta R.T. -0.01 min
Lab File: C2596.D
Acq: 15 Mar 2010 12:53

Tgt Ion: 95 Resp: 70275

Ion	Ratio	Lower	Upper
95	100		
97	66.5	43.8	83.8
132	108.6	91.3	131.3
130	115.5	94.8	134.8

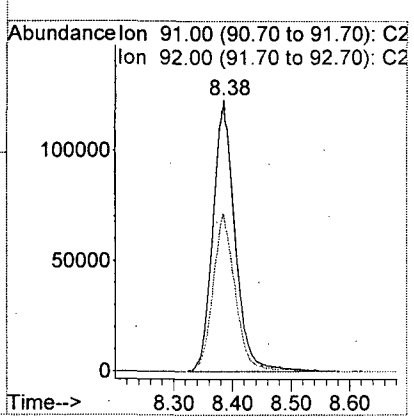




#42
Toluene
Concen: 4.2166 ug/L
RT: 8.38 min Scan# 2120
Delta R.T. -0.00 min
Lab File: C2596.D
Acq: 15 Mar 2010 12:53

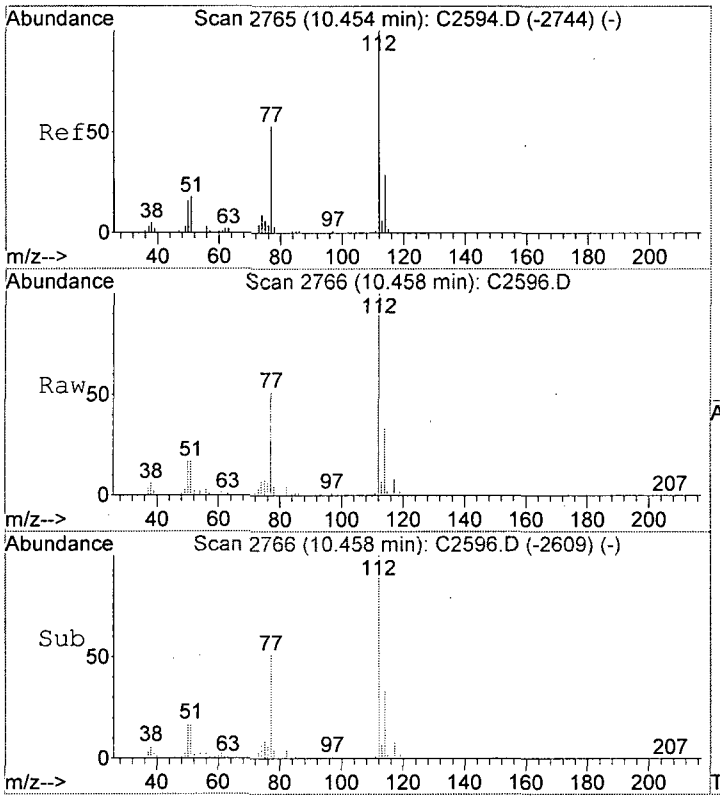
Tgt Ion: 91 Resp: 320152

Ion	Ratio	Lower	Upper
91	100		
92	58.6	39.6	79.6



000000327

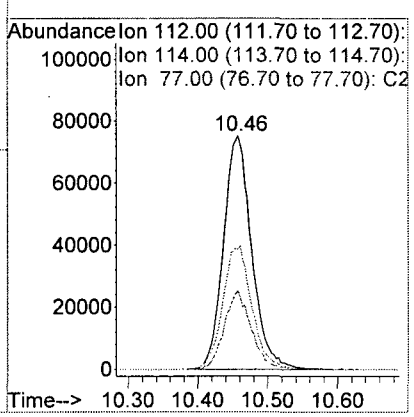
Data File : C:\MSDCHEM\1\DATA\C2596.D Vial: 5
Acq On : 15 Mar 2010 12:53 Operator: SP
Sample : 0030155-MSD1 Inst : C-5973
Misc : F3FY3MSD 25ML Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\SOTC2594.M (RTE Integrator)
Title : CLP SOM1.2 TVOA-WATER -25ML



#51
Chlorobenzene
Concen: 4.1007 ug/L
RT: 10.46 min Scan# 2766
Delta R.T. 0.00 min
Lab File: C2596.D
Acq: 15 Mar 2010 12:53

Tgt Ion:112 Resp: 210328

Ion	Ratio	Lower	Upper
112	100		
114	32.2	11.8	51.8
77	54.6	33.5	73.5



00000326

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Instrument Run Log – GC/MS Purgeables Instrument ID: C-5973			
Effective	Area	Type	Number-Version	RCN
8-Aug-08	QA	FORM	6FORM08-A	803-0826

ROUTINE MAINTENANCE (record major maintenance in the Maintenance Logbook): _____

TUNE FILE ID: A4BFB.U EMV: 1529 DATE: 3.12.10 CAL ID: AC01505
METHOD FILES: BFB.M, VOAC.M, SOTC2553.M INTERNAL STD. ID: 782-P136-10
ANALYTICAL METHOD: TVOA SOP: 8SOP01-B SURR. STD. ID: 782-P137-10

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	STANDARDS ID, pH & COMMENTS
C2552	BFB 04	0C12001-TUN1	50NG		—	1µL	782-P93-09
53	VSTD005 04	-CAL3	25mL		—	—	782-P136 to P138-10
54	VSTD020 04	-CAL5			—	—	
55	VSTD010 04	-CAL4			—	—	
56	VSTD001 04	-CAL2		3/12/10	—	—	
57	VSTD0.504	-CAL1			—	—	
58	VBLK04	0030137-BLK1			—	—	
59	F3F43	0011747-08			—	—	X
60	F3F43	0011747-08	3/12/10		—	—	
61	Z0	-01			—	—	
62	Z1	-02			—	—	
63	X7	-03			—	—	
64	Y4	-04			—	—	
65	Y5	-05			—	—	
66	Y1	-06			—	—	
67	Y2	-07			—	—	
68	X8	0011771-01			—	—	
69	VSTD005	VSTD005			—	—	X
70	VSTD00505	0C12001-CCV1			—	—	782-P136 to P138-10
71	VBLK05	0030145-BLK1			—	—	
72	F3FX9	0011771-02			—	—	
73	Y0	-03			—	—	
74	F3G01	-04			—	—	
75	10	-05			—	—	

Notes: 0C12001 | 0030137 | 0030145

Analyst/Date: 3/12/10 Reviewer/Date: 3/12/10

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Instrument Run Log – GC/MS Purgeables Instrument ID: C-5973			
Effective	Area	Type	Number-Version	RCN
8-Aug-08	QA	FORM	6FORM08-A	803-0826

ROUTINE MAINTENANCE (record major maintenance in the Maintenance Logbook): _____

TUNE FILE ID: A4BFB.u EMV: 1529 DATE: 3.12.10 CAL ID: AC01505
METHOD FILEs: BFB.M, VOAC.M, SOTC2570.M INTERNAL STD. ID: 782-P136-10
ANALYTICAL METHOD: TVOA SOP: 3SOP01-B SURR. STD. ID: 782-P137-10

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	STANDARDS ID, pH & COMMENTS
C2576	F3F48	0011771-06	25mL		—	— ✓	
77	↓ Z8	↓ -07			—	— ✓	
78	C00C8	0011761-01			—	— ✓	pH<2
79	↓ C9	↓ -02		3/12/10	—	— ✓	↓
80	F3F47	0011759-01			—	— ✓	
81	Z2	-02			—	— ✓	
82	Y6	-03			—	— ✓	
83	Z4	-04			—	— ✓	
84	Z5	-05			—	— ✓	
85	Z6	-06			—	— ✓	
86	↓ Z3	↓ -07			—	— ✓	
87	F3F43MS	0030145-MS1			—	— ✓	(0011747-08) 3/15/10
88	↓ MSD	↓ -MSD1			—	— X	↓
89	VBLK	VBLK			—	— X	
90	VBLK	VBLK			—	— X	
91	VSTD00506	0012001-CCV2			—	— ✓	782-P136 to P138-10
92	VSTD005	VSTD005			—	— X	

3/12/10

Notes: _____

Analyst/Date: 3/12/10 Reviewer/Date: 3/12/10

000000330

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
281-292-5277

Instrument Run Log – GC/MS Purgeables

Instrument ID: C-5973

Effective	Area	Type	Number-Version	RCN
8-Aug-08	QA	FORM	6FORM08-A	803-0826

ROUTINE MAINTENANCE (record major maintenance in the Maintenance Logbook): _____

TUNE FILE ID: AHBFB.U EMV: 1529 DATE: 3.15.10 CAL ID: AC01505
METHOD FILEs: BFB.M, VOAC.M, SOTC2594.M INTERNAL STD. ID: 782-P136-10
ANALYTICAL METHOD: TVOA SOP: BSOP01-B SURR. STD. ID: 782-137-10

FILE ID	CLIENT SAMPLE ID	LAB SAMPLE ID	SAMPLE WT/VOL	AUTO SAMPLER POSITION	DIL	INJ. VOL.	STANDARDS ID, pH & COMMENTS
C2593	BFB07	OC15005-TUN1	50NG			1µL	782-P93-09
94	VSTD00507	↓ -CCV1	25ml				782-P136 to P138-10
95	VBLK07	0030155-BLK1					
96	F3F43MSD	0030155-MSD1					(0011765-08)
97	VHBLK55	0011765-09					
98	VHBLK45	0011726-03					
99	VHBLK53	0011761-03					
C2600	VSTD00508	OC15005-CCV2					782-P136 to P138-10
01	VBLK09	0030163-BLK1					
02							
03							

3/15/10

Notes: OC15005 | 0030155 | 0030163

Analyst/Date: 3/15/10 Reviewer/Date: 3/15/10

000000331

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standards Preparation Logbook Organics (VOA)			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	782-0302

Solution Number: 782-P93-09	Analyst: SP
Solution Name: 11/13/09 ~~St~~ ~~ft~~ BFB Tuning Compound	
Dilution Solvent Name: MeOH	Dilution Solvent ID #: A903035
Prep Date: 11.13.09	Total Vol. (ml): 1mL
Expiration Date: ~~12.12.09~~ 05.12.10 12/14/09	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
Restek	VOA Tuning Compound	30003	A910010	5000	10	50

11/13/09

NOTES

REVIEWER: [signature]

DATE: 11/13/09

000000332

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
281-292-5277

Standards Preparation Logbook
Organics (VOA)

Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	782-0302

Solution Number: 782-P136-10	**Analyst:** SP
Solution Name: Internal Standard (TVOA)	
Dilution Solvent Name: MeOH	**Dilution Solvent ID #:** A903035
Prep Date: 2.24.10	**Total Vol. (ml):** 1mL
Expiration Date: 3-23-10	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
Restek	L/C VOA Internal Standard mix	30091	A002069	2500	10	25

[signature] 2/24/10

NOTES

REVIEWER: [signature]

DATE: 02/24/10

000000333

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standards Preparation Logbook Organics (VOA)			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	782-0302

Solution Number: 782- P137-10	**Analyst:** SP
Solution Name: DMC (TVOA)	
Dilution Solvent Name: ~~2-2~~ MeOH	**Dilution Solvent ID #:** A 903035
Prep Date: 2-24-10	**Total Vol. (ml):** 1mL
Expiration Date: 3. 23.10	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
Absolute Standards	CLP DMC liquids	94155	A912029	2000	12.5	25
Absolute Standards	CLP DMC Gases	94156	A912030	2000	12.5	25
Carbocore	2-Hexanone	CS-1249	782-P5-09	20,000	12.5	250
Carbocore	2-Butanone	CS-124	782-P6-09	20,000	12.5	250

2/24/10

NOTES _____

REVIEWER: _____ DATE: 02/24/10

000000534

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Standards Preparation Logbook Organics (VOA)			
Effective	Area	Type	Number-Version	RCN
3-Mar-2009	QA	FORM	6FORM15-A	782-0302

Solution Number: 782-P138-10	**Analyst:** SP
Solution Name: STD (TVOA)	
Dilution Solvent Name: MeOH	**Dilution Solvent ID #:** A903035
Prep Date: 2.24.10	**Total Vol. (ml):** 1mL
Expiration Date: 3.23.10	

Manufacturer	Standard Name	Mfg. Cat #	Lab ID	Initial Conc. (mg/L or µg/L)	Aliquot (mL or µL)	Final Conc. (mg/L or µg/L)
Restek	VOA Calibration mix #1	30006	A912013	5000	10	50
Restek	OLC 3.2 VOA mega mix	30492	A912015	2000	12.5	25
Restek	502.2 Calibration mix #1	30042	A912014	2000	12.5	25

2/24/10

NOTES

REVIEWER : [signature]

DATE: 02/24/10

000000335

FedEx Express **US Airbill**

FedEx Tracking Number 8673 1798 6988

Form ID No. 0200 — Sender's Copy

1 From *Please print and press hard.*

Date

Sender's FedEx Account Number SENDER DIA CO NI

Sender's Name April Palmie Ph: 512-239-4152

Company TCEQ
12100 Park 35 Circle MC-136
Austin, TX 78753

Address Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

Kishu 3/10/10 9:30

2 Your Internal Billing Reference First 24 characters will appear on invoice.

70848

3 To

Recipient's Name Phone ( )

Company Jessica Schulze Phone: 281-292-5277

Recipient's Address A4
We cannot deliver t
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Dept./Floor/Suite/Room

Address
To request a packag.

City State ZIP

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday *unless SATURDAY Delivery is selected.*
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* *Saturday Delivery NOT available.*
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday *unless SATURDAY Delivery is selected.*
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday *unless SATURDAY Delivery is selected.*
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday *unless SATURDAY Delivery is selected*
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

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

* Declared value limit $500

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for *FedEx Standard Overnight,* FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday** at FedEx Location NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday** at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

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

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

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

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

FedEx Acct. No
Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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11747-D

FedEx Express **US Airbill**

FedEx Tracking Number 8673 1798 6988

Form ID No. 0200 Sender's Copy

1 From *Please print and press hard.*

Date

Sender's FedEx Account Number SENDER D/A CO NI

Sender's Name April Palmie Ph: 512-239-4152 ( )

Company TCEQ
12100 Park 35 Circle MC-136
Austin, TX 78753

Kisha 3/10/10 5:30

Address Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference First 24 characters will appear on invoice. 70848

3 To

Recipient's Name Phone ( )

Company Jessica Schulze Phone: 281-292-5277

Recipient's Address A4
We cannot deliver t 1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Dept./Floor/Suite/Room

Address
To request a packag.

City State ZIP

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

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

* Declared value limit $500

6 Special Handling Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

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

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

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

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

FedEx Acct. No.
Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

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1147-B

FedEx Express — *US Airbill*

FedEx Tracking Number 8673 1798 6988

Form ID No. 0200 — **Recipient's Copy**

1 From

Date

Sender's Name: April Palmie Ph: 512-239-4152

Company: TCEQ

Address: 12100 Park 35 Circle MC-136
Austin, TX 78753
Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

Kishwa 8/10/10 9:30

2 Your Internal Billing Reference

3 To

Recipient's Name: Jessica Schulze Phone: 281-292-5277

Company: A4

Recipient's Address: 1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

We cannot deliver to P.O. bo

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City State ZIP

8673 1798 6988

4a Express Package Service — *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

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

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** — Not available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

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

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

Total Packages	Total Weight	Total Declared Value†
5	45.7	$ .00

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

Credit Card Auth.

8 Residential Delivery Signature Options — *If you require a signature, check Direct or Indirect.*

- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

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11769-C

FedEx Express US Airbill

FedEx Tracking Number 8705 3693 4094

Form ID No. 0200

Recipient's Copy

1 From

Date [redacted]

Sender's Name April Palmie Ph: 512-239-4152

Company TCEQ

Address 12100 Park 35 Circle MC-136
Austin, TX 78753
Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference 70048

3 To

Recipient's Name Phone

Company Jessica Schulze Phone: 281-292-5277

Address A4
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

We cannot deliver to P.O. boxes or P.O. ZI

Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City State ZIP

8705 3693 4094

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

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

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

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

Obtain Recip. Acct. No. [ ]

[redacted]

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	103 lbs.	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

554

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11758 A

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FedEx Express *US Airbill*

FedEx Tracking Number 8705 3693 4109

Form ID No. 0200

Recipient's Copy

1 From

Date [redacted]

Sender's Name

Company April Palmie Ph: 512-239-4152
TCEQ
12100 Park 35 Circle MC-136
Austin, TX 78753
Fex Ex Acct: 3529 7878 7

Address

Dept./Floor/Suite/Room

City State ZIP

Kisha 3/11/10 13:00

2 Your Internal Billing Reference 10648

3 To

Recipient's Name Phone

Comp Jessica Schulze Phone: 281-292-5277

Addres A4
We canno 1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Address Print FedEx

Dept./Floor/Suite/Room

City State ZIP

:day on address able for ight.

HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8705 3693 4109

4a Express Package Service • To most locations. *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 1Day Freight Booking No.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging • Declared value limit $500.

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

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

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

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

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

Obtain Recip. Acct. No. [ ]

[redacted]

Total Packages	Total Weight	Total Declared Value†	Credit Card Auth.
1	100 lbs.	$ ____.00	

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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11759-B

FedEx Express US Airbill 8673 1798 6977 0200 Form ID No. FedEx Retrieval Copy

1 From

Date | Sender's FedEx Account Number

Sender's Name: April Palmie Ph: 512-239-4152

Company: TCEQ
12100 Park 35 Circle MC-136
Austin, TX 78753

Address: Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City | State | ZIP

Kirby 3/11/10 13:00

2 Your Internal Billing Reference 70848

3 To

Recipient's Name | Phone

Company: Jessica Schulze Phone: 281-292-5277

Recipient's Address: A4
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

We cannot deliver to P. | Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City | State | ZIP

8673 1798 6977

4a Express Package Service — *Packages up to 150 lbs.*

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [X] Other

* Declared value limit $500.

6 Special Handling

Include FedEx address in Section 3.

3 [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.

31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

[X] No 4 [ ] Yes — As per attached Shipper's Declaration. [ ] Yes — Shipper's Declaration not required. 6 [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

1 [X] Sender — Acct. No. in Section 1 will be billed. 2 [ ] Recipient 3 [ ] Third Party 4 [ ] Credit Card 5 [ ] Cash/Check

[redacted]

Total Packages 1 | Total Weight 60 | [redacted]

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

[X] No Signature Required — Package may be left without obtaining a signature for delivery.

10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

520

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fedex.com 1.800.GoFedEx 1.800.463.3339

11759-C

FedEx Express *US Airbill*

8705 3693 4083

0200 Form ID No.

FedEx Retrieval Copy

4

1 From

Date

Sender's FedEx Account Number

Sender's Name: April Palmie Ph: 512-239-4152

Company: TCEQ
12100 Park 35 Circle MC-136
Austin, TX 78753

Address: Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

Kishen 3/11/10 13:00

2 Your Internal Billing Reference 70848

3 To

Recipient's Name: Jessica Schulze Phone: 281-292-5277

Company: A4
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Print FedEx location address here if a HOLD option is selected.

City State ZIP

HOLD Saturday
at FedEx location address below.
available ONLY for FedEx Priority Overnight
FedEx 2Day to select locations.

8705 3693 4083

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday *unless SATURDAY Delivery is selected.*

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* *Saturday Delivery NOT available.*

3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

7 [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 [ ] FedEx Envelope*

2 [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.

3 [ ] FedEx Box

4 [ ] FedEx Tube

1 [X] Other

6 Special Handling and Delivery Signature Options

3 [ ] **SATURDAY DELIVERY**

[ ] No Signature Required — *Package may be left without* obtaining a signature for delivery.

10 [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

[X] No

4 [ ] Yes — As per attached *Shipper's Declaration.*

[ ] Yes — Shipper's Declaration *not required.*

6 [ ] Dry Ice — *Dry Ice, 9, UN 1845* ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box

[ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip. Acct. No. [ ]

1 [X] Sender — Acct. No. in Section 1 will be billed.

2 [ ] Recipient

3 [ ] Third Party

4 [ ] Credit Card

5 [ ] Cash/Check

Total Packages 1

Total Weight 7 lbs.

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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1759-D

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

Case No: 39551
DAS No:
SDG No: F3FX7Y1 **L**

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760238649
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 17:08	Kishwe,	3/10/10, 9:30
2			
3			Re 3/3/10
4			

For Lab Use Only

Lab Contract No: EPW05036
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
F3FZ0	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487761 (Ice Only), 6-487762 (Ice Only), 6-487763 (Ice Only), 6-487764 (Ice Only), 6-487765 (Ice Only), 6-487766 (Ice Only), 6-487768 (Ice Only), 6-487769 (Ice Only), 6-487770 (Ice Only) (9)	GW-14	S: 3/9/2010 12:14	MF3FZ0	0011747-01 65 1st Sx in SDG + 3 MIA
F3FZ1	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487772 (Ice Only), 6-487773 (Ice Only), 6-487774 (Ice Only), 6-487775 (Ice Only), 6-487776 (Ice Only), 6-487777 (Ice Only), 6-487779 (Ice Only), 6-487780 (Ice Only), 6-487781 (Ice Only) (9)	GW-15	S: 3/9/2010 14:43	MF3FZ1	-02 (One container for ARO broken)

Re 3/12/10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0005

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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

EPA

Case No:	39551
DAS No:	
SDG No:	F3FX7Y1

L

Rec 3/12/1

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760237322
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 14:50	Kishore,	3/10/10, 9:30
2			
3		Re 3/10/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Re 3/10/1

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
F3FX7	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487455 (Ice Only), 6-487456 (Ice Only), 6-487457 (Ice Only), 6-487458 (Ice Only), 6-487459 (Ice Only), 6-487460 (Ice Only), 6-487462 (Ice Only), 6-487463 (Ice Only), 6-487464 (Ice Only) (9)	GW-01	S: 3/9/2010 9:12	MF3FX7 Re 3/12/10	0011747-03 65 INTACT
F3FY4	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487703 (Ice Only), 6-487704 (Ice Only), 6-487705 (Ice Only), 6-487706 (Ice Only), 6-487707 (Ice Only), 6-487708 (Ice Only), 6-487710 (Ice Only), 6-487711 (Ice Only), 6-487712 (Ice Only) (9)	GW-08	S: 3/9/2010 10:30	MF3FY4	-04
F3FY5	Ground Water/ Gary Hazelwood	L/G	VOA (5)	6-487713 (Ice Only), 6-487714 (Ice Only), 6-487715 (Ice Only) (3)	GW-09	S: 3/9/2010 11:10		-05

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0002

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

EPA

Case No:	39551
DAS No:	
SDG No:	F3FX7Y1

L

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	867317986988
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 17:09	Kishore,	3/10/10, 9:30
2			
3		Rec 3/10/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/10/1

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
F3FY1	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487650 (Ice Only), 6-487651 (Ice Only), 6-487652 (Ice Only), 6-487653 (Ice Only), 6-487654 (Ice Only), 6-487655 (Ice Only), 6-487657 (Ice Only), 6-487658 (Ice Only), 6-487659 (Ice Only) (9)	GW-05	S: 3/9/2010 15:32	MF3FY1	0011747-06 65 INTACT

Rec 3/12/10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0006

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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:	39551
DAS No:	
SDG No:	F3FX7-Y1 L

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760238650
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	3/9/10 16:58	Kishore	3/10/10, 9:30
2			
3			3/10/10
4			

For Lab Use Only

Lab Contract No:	EPW05036
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
F3FY2	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487661 (Ice Only), 6-487662 (Ice Only), 6-487663 (Ice Only), 6-487664 (Ice Only), 6-487665 (Ice Only), 6-487666 (Ice Only), 6-487668 (Ice Only), 6-487669 (Ice Only), 6-487670 (Ice Only) (9)	GW-06	S: 3/9/2010 11:29	MF3FY2	0011747-07 65 INTACT
F3FY3	Ground Water/ Gary Hazelwood	L/G	BNA (7)	6-487685 (Ice Only), 6-487686 (Ice Only), 6-487687 (Ice Only), 6-487688 (Ice Only), 6-487689 (Ice Only), 6-487690 (Ice Only) (6)	GW-07	S: 3/9/2010 10:10	MF3FY3	-08

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MS/MSD F3FY3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0004

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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: 39551
DAS No:
SDG No: F3FX~~7~~Y1 **L**

3

Rec 3/12/10

Date Shipped:	3/9/2010
Carrier Name:	FedEx
Airbill:	871760237311
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	3/9/10 4:16:53	Kishore	3/10/10, 9:30
2			
3			RK 3/10/10
4			

For Lab Use Only

Lab Contract No: EPW05036
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

Rec 3/10/10

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
F3FY3	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), VOA (5)	6-487673 (Ice Only), 6-487674 (Ice Only), 6-487675 (Ice Only), 6-487676 (Ice Only), 6-487677 (Ice Only), 6-487678 (Ice Only), 6-487679 (Ice Only), 6-487680 (Ice Only), 6-487681 (Ice Only), 6-487682 (Ice Only), 6-487683 (Ice Only), 6-487684 (Ice Only), 6-487693 (Ice Only), 6-487694 (Ice Only), 6-487695 (Ice Only), 6-487696 (Ice Only), 6-487697 (Ice Only), 6-487698 (Ice Only), 6-487699 (Ice Only), 6-487700 (Ice Only), 6-487701 (Ice Only) (21)	GW-07	S: 3/9/2010 10:10	MF3FY3	0011747-08 65 Rec 3/12/10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MS/MSD F3FY3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, VOA = CLP TCL Volatiles

TR Number: 6-043013577-030910-0003

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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: 39551
DAS No:
SDG No: F3FY1 **L**

5

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	870536934094
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record — Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	03/03/10 1725	Kishore	3/11/10, 13:00
2			
3			Re 3/11/10
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/11/10

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
F3FY7	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487728 (Ice Only), 6-487729 (Ice Only), 6-487730 (Ice Only), 6-487731 (Ice Only), 6-487732 (Ice Only), 6-487733 (Ice Only), 6-487735 (Ice Only), 6-487736 (Ice Only), 6-487737 (Ice Only) (9)	GW-11	S: 3/10/2010	13:22	MF3FY7	0011758-01 0011759-01
F3FZ2	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487783 (Ice Only), 6-487784 (Ice Only), 6-487785 (Ice Only), 6-487786 (Ice Only), 6-487787 (Ice Only), 6-487788 (Ice Only), 6-487790 (Ice Only), 6-487791 (Ice Only), 6-487792 (Ice Only) (9)	GW-16	S: 3/10/2010	15:00	MF3FZ2	0011758-02 0011759-02

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0003

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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:	39551
DAS No:	
SDG No:	F3FY1

L

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	870536934109
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Johnson	03/10/10 1714	Kishwe.	3/11/10, 13:00
2			
3			Rec 3/11/10
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/11/1

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
F3FY6	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487717 (Ice Only), 6-487718 (Ice Only), 6-487719 (Ice Only), 6-487720 (Ice Only), 6-487721 (Ice Only), 6-487722 (Ice Only), 6-487724 (Ice Only), 6-487725 (Ice Only), 6-487726 (Ice Only) (9)	GW-10	S: 3/10/2010 12:45	MF3FY6	0011758/759-03
F3FZ4	Ground Water/ Gary Hazelwood	L/G	VOA (5)	6-487804 (Ice Only), 6-487805 (Ice Only), 6-487806 (Ice Only) (3)	GW-18	S: 3/10/2010 11:15		0011759-04
F3FZ5	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487808 (Ice Only), 6-487809 (Ice Only), 6-487810 (Ice Only), 6-487811 (Ice Only), 6-487812 (Ice Only), 6-487813 (Ice Only), 6-487815 (Ice Only), 6-487816 (Ice Only), 6-487817 (Ice Only) (9)	GW-19	S: 3/10/2010 11:40	MF3FZ5	0011758-04 0011759-05

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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

EPA

Case No:	39551
DAS No:	
SDG No:	F3FY1

L

5

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	867317986977
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	03/10/10 1727	Kisha	3/11/10, 13:00
2			
3		Rec 3/11/10	
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 3/11/11

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
F3FZ6	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487819 (Ice Only), 6-487820 (Ice Only), 6-487821 (Ice Only), 6-487822 (Ice Only), 6-487823 (Ice Only), 6-487824 (Ice Only), 6-487826 (Ice Only), 6-487827 (Ice Only), 6-487828 (Ice Only) (9)	GW-20	S: 3/10/2010	16:20	MF3FZ6	0011758/759-05 0011759-06

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0005

ORIGINAL COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 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:	39551
DAS No:	
SDG No:	F3FY1

L

4

Date Shipped:	3/10/2010
Carrier Name:	FedEx
Airbill:	870536934083
Shipped to:	A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277

Chain of Custody Record

Sampler Signature: Gary Hazelwood

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Gary Hazelwood	03/10/10 1725	Krishna,	3/11/10, 13:00
2			
3			Rec 3/11/10
4			

For Lab Use Only

Lab Contract No:	EPW05036
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

Rec 7/11/10

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
F3FZ3	Ground Water/ Gary Hazelwood	L/G	(Aroclr) (7), (PEST) (7), BNA (7), VOA (5)	6-487794 (Ice Only), 6-487795 (Ice Only), 6-487796 (Ice Only), 6-487797 (Ice Only), 6-487798 (Ice Only), 6-487799 (Ice Only), 6-487801 (Ice Only), 6-487802 (Ice Only), 6-487803 (Ice Only) (9)	GW-17	S: 3/10/2010 15:35	MF3FZ3	0011758 - 06 0011759 - 07

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: NA
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

(Aroclr) = CLP TCL Aroclor, (PEST) = CLP TCL Pesticide, BNA = CLP TCL Semivolatiles, VOA = CLP TCL Volatiles

TR Number: 6-043013577-031010-0004

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

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		3/10/10	1535		X

Station Location

Samplers (Signatures): Gary Hazlewood

Tag Number: 6- 487802

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Preservative: Yes ☐

Volatile Organic
Semi Volatiles (
Pe
Cya
Alk
TCL
Asbe
Dioxi
Oil a

Case: 39551 Analysis:VOA
Sample #: (GW-17) F3FZ3
Ground Water Preserv: Ice Only
Tag #: 6-487802 Conc: L

11759-07

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		3/10/10	1535		X

Station Location

Samplers (Signatures): Gary Hazlewood

Tag Number: 6- 487803

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Preservative: Yes ☐

Volatile Orgar
Semi Volatiles
Pest
Cyar
Alkal
TCL
Asbe
Dioxi
Oil ar

Case: 39551 Analysis:VOA
Sample #: (GW-17) F3FZ3
Ground Water Preserv: Ice Only
Tag #: 6-487803 Conc: L

11759-07

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		3/10/10	1535		X

Station Location

Samplers (Signatures): Gary Hazlewood

Tag Number: 6- 487801

Lab Sample No.

Concentration: ☐ L ☐ M ☐ H

Remarks:

Preservative: Yes ☐

Volatile Organics (V
Semi Volatiles (ABN)
Pesticides/F
Cyanide
Alkalinity/H
TCLP
VC
Al
M
Asbesto
Dioxin
Oil and

Case: 39551 Analysis:VOA
Sample #: (GW-17) F3FZ3
Ground Water Preserv: Ice Only
Tag #: 6-487801 Conc: L

11759-07

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1620		X

Tag Number 6- 487828

Station Location

Samplers (Signatures) Gary Hazelwood

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Oil an | Dioxin | Asbes | TCLP | Alkalin | Cyani | Pestic | Semi Volatiles (ABN) | Organics (VOA)

Case: 39551 Analysis:VOA
Sample #: (GW-20) F3FZ6
Ground Water Preserv: Ice Only
Tag #: 6-487828 Conc: L

11759-06

ative: ☐ No ☐

G&O U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1620		X

Tag Number 6- 487827

Station Location

Samplers (Signatures) Gary Hazelwood

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Oil and | Dioxin | Asbest | TCLP | Alkalin | Cyani | Pestic | Semi Volatiles | Volatile Organic

Case: 39551 Analysis:VOA
Sample #: (GW-20) F3FZ6
Ground Water Preserv: Ice Only
Tag #: 6-487827 Conc: L

11759-06

Preservative: Yes ☐

G&O U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1620		X

Tag Number 6- 487826

Station Location

Samplers (Signatures) Gary Hazelwood

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Oil and Grease | Dioxin | Asbesto | TCLP | Alkalinit | Cyanide | Pesticid | Semi Vo | Volatile Organic

Case: 39551 Analysis:VOA
Sample #: (GW-20) F3FZ6
Ground Water Preserv: Ice Only
Tag #: 6-487826 Conc: L

11759-06

Preservative: Yes ☐

G&O U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

353

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1115		X

Tag Number 6- 487805

Station Location

Samplers (Signatures) Gary Hazelwood

11759-04

Preservative: Yes ☐ No ☐

Volatile Organics (VOA)

Semi Volatiles (ABN)

Pesticides/PCB

Cyan

Alkali

TCLP

Asbes

Dioxin

Oil an

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-18) F3FZ4
Ground Water Preserv: Ice Only
Tag #: 6-487805 Conc: L

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1115		X

Tag Number 6- 487804

Station Location

Samplers (Signatures) Gary Hazelwood

11759-04

Preservative: Yes ☐ No ☐

Volatile Organics (VOA)

Semi Volatiles (ABN)

Pesticid

Cyanid

Alkalini

TCLP

Asbest

Dioxin

Oil and

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-18) F3FZ4
Ground Water Preserv: Ice Only
Tag #: 6-487804 Conc: L

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1115		X

Tag Number 6- 487806

Station Location

Samplers (Signatures) Gary Hazelwood

Preservati Yes ☐ No ☐

Volatile Organics (VOA)

Semi Volatiles (ABN)

Pestici

Cyanic

Alkalin

TCLP

Asbes

Dioxin

Oil an

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-18) F3FZ4
Ground Water Preserv: Ice Only
Tag #: 6-487806 Conc: L

11759-04

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

000000354

Designate: Grab ☒ Comp.

Month/Day/Year: 3/10/10 | Time: 1140

Samplers (Signatures): Gary Hagbard 11759-05

Station No.

Station Location

Project Code / CLP Case No.

Preservative: _____

Yes ☐ No ☐

Pestici

Cyanid

Alkalini

TCLP

☐

☐

☐

Asbesto

Dioxin

Oil and Grease

Case: 39551 Analysis: VOA
Sample #: (GW-19) F3FZ5
Ground Water Preserv: Ice Only
Tag #: 6-487817 Conc: L

Remarks:

Concentration: ☐ L ☐ M ☐ H

Tag Number: 6- 487817

Lab Sample No.

Designate: Grab ☒ Comp.

Month/Day/Year: 3/10/10 | Time: 1140

Samplers (Signatures): Gary Hagbard 11759-05

Station No.

Station Location

Project Code / CLP Case No.

Preservative: _____

Yes ☐ No ☐

latile Organics (VOA)

Pestic

Cyani

Alkalir

TCLP

☐

☐

☐

Asbest

Dioxin

Oil and

Case: 39551 Analysis: VOA
Sample #: (GW-19) F3FZ5
Ground Water Preserv: Ice Only
Tag #: 6-487816 Conc: L

Remarks:

Concentration: ☐ L ☐ M ☐ H

Tag Number: 6- 487816

Lab Sample No.

Designate: Grab ☒ Comp.

Month/Day/Year: 3/10/10 | Time: 1140

Samplers (Signatures): Gary Hagbard 11759-05

Station No.

Station Location

Project Code / CLP Case No.

Preservative: _____

Yes ☐ No ☐

olatile Organics (VOA)

mi Volatiles (ABN)

Pesti

Cyar

Alkal

TCL

☐

☐

☐

Asbe

Dioxi

Oil a

Case: 39551 Analysis: VOA
Sample #: (GW-19) F3FZ5
Ground Water Preserv: Ice Only
Tag #: 6-487815 Conc: L

Remarks:

Concentration: ☐ L ☐ M ☐ H

Tag Number: 6- 487815

Lab Sample No.

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1245		X

Tag Number: 6- 487724

Station Location:

Samplers (Signatures): Gary Hazelwood

Preservative: Yes ☐ No ☐

Volatile Organic

Semi Volatiles (ABN)

Pestic

Cyani

Alkali

TCLP

Asbes

Dioxin

Oil and

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-10) F3FY6
Ground Water Preserv: Ice Only
Tag #: 6-487724 Conc: L

11759-03

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1245		X

Tag Number: 6- 487725

Station Location:

Samplers (Signatures): Gary Hazelwood

Preservative: Yes ☐

Volatile Organics (

Semi Volatiles (ABN

Pestic

Cyani

Alkali

TCLP

Asbes

Dioxin

Oil and

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-10) F3FY6
Ground Water Preserv: Ice Only
Tag #: 6-487725 Conc: L

11759-03

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1245		

Tag Number: 6- 487726

Station Location:

Samplers (Signatures): Gary Hazelwood

11759-03

Preservative: Yes ☐ No ☐

tile Organics (VOA)

i Volatiles (ABN)

Pestic

Cyan

Alkali

TCL

Asbe

Dioxi

Oil a

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-10) F3FY6
Ground Water Preserv: Ice Only
Tag #: 6-487726 Conc: L

356

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		3/10/10	1500		☒

Tag Number: 6- 487792

Station Location

Samplers (Signatures): Gary Hazelwood

Preservative: Yes ☐ ☐

Volatile Organic
Semi Volatiles (
Pesticides/PCB
Cya
Alka
TCL
Asb
Diox
Oil a

Remarks:

Case: 39551 Analysis:VOA
Sample #: (GW-16) F3FZ2
Ground Water Preserv: Ice Only
Tag #: 6-487792 Conc: L

11758-02

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		3/10/10	1500		☒

Tag Number: 6- 487791

Station Location

Samplers (Signatures): Gary Hazelwood

11758-02

Preservative: Yes ☐ No ☐

Volatile Organics (VOA)
Semi Volatiles (ABN)
Pesticides/PCB
Cyanid
Alkalin
TCLP
Asbes
Dioxir
Oil an

Remarks:

Case: 39551 Analysis:VOA
Sample #: (GW-16) F3FZ2
Ground Water Preserv: Ice Only
Tag #: 6-487791 Conc: L

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Designate: Grab
		3/10/10	1500		☒

Tag Number: 6- 487790

Station Location

Samplers (Signatures): Gary Hazelwood

Preservative: Yes ☐

Volatile Organics (VOA)
Semi
Pestic
Cyanid
Alkalin
TCLP
Asbest
Dioxin
Oil and

Remarks:

Case: 39551 Analysis:VOA
Sample #: (GW-16) F3FZ2
Ground Water Preserv: Ice Only
Tag #: 6-487790 Conc: L

11758-02

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

GPO U.S. GOVERNMENT PRINTING OFFICE: 2009-546-765

357

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1322		X

Tag Number 6- 487735

Station Location

Samplers (Signatures) Gary Hazelwood

Preservative: Yes ☐ No ☐

Volatile Organics / Semi Volatile / Pesticides/PCB / Cyani / Alkali / TCLP / Asbes / Dioxin / Oil an

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-11) F3FY7
Ground Water Preserv: Ice Only
Tag #: 6-487735 Conc: L

11758-01

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10	1322		X

Tag Number 6- 487736

Station Location

Samplers (Signatures) Gary Hazelwood

Preservative: Yes ☐ No ☐

Volatile Orga / Semi Volatile / Pest / Cyar / Alkal / TCL / Asbes / Dioxin / Oil an

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-11) F3FY7
Ground Water Preserv: Ice Only
Tag #: 6-487736 Conc: L

11758-01

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

Project Code CLP Case No.	Station No.	Month/Day/Year	Time	Designate: Comp.	Grab
		3/10/10			X

Tag Number 6- 487737

Station Location

Samplers (Signatures) Gary Hazelwood

Preservative: Yes ☐ No ☐

Volatile Organi / Semi Volatiles / Pestic / Cyani / Alkalir / TCLP / Asbes / Dioxin / Oil an

Remarks:

Concentration: ☐ L ☐ M ☐ H

Lab Sample No.

Case: 39551 Analysis:VOA
Sample #: (GW-11) F3FY7
Ground Water Preserv: Ice Only
Tag #: 6-487737 Conc: L

11758-01

GPO U.S. GOVERNMENT PRINTING OFFICE:2009-546-765

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
www.a4scientific.com

Printed: 3/12/2010 7:02:02PM

Sample Log-in Report

WORK ORDER = 0011765

Client : NAZY ABOUSAEEDI
COMPUTER SCIENCES CORPORATION
15000 CONFERENCE CENTER DRIVE
CHANTILLY VA 201513819

Project : SOM01.2
Project Number : CLP SAMPLES
Courier/Airbill # : Fed Ex / 867317986988
COC/TR # : 6-043013577-030910-0005

Lab Sample	Client Sample	Matrix	#Cont.	Case	SDG	Sampled	Received	Analysis	TAT	Comments
0011765-01	F3FZ0	Water	3	39551	F3FY1	03/09/10 12:14	03/10/10 09:30	SOM01.2 VOA TRACE	5	1st Sx
0011765-02	F3FZ1	Water	3	39551	F3FY1	03/09/10 14:43	03/10/10 09:30	SOM01.2 VOA TRACE	5	
0011765-03	F3FX7	Water	3	39551	F3FY1	03/09/10 09:12	03/10/10 09:30	SOM01.2 VOA TRACE	5	
0011765-04	F3FY4	Water	3	39551	F3FY1	03/09/10 10:30	03/10/10 09:30	SOM01.2 VOA TRACE	5	
0011765-05	F3FY5	Water	3	39551	F3FY1	03/09/10 11:10	03/10/10 09:30	SOM01.2 VOA TRACE	5	
0011765-06	F3FY1	Water	3	39551	F3FY1	03/09/10 15:32	03/10/10 09:30	SOM01.2 VOA TRACE	5	
0011765-07	F3FY2	Water	3	39551	F3FY1	03/09/10 11:29	03/10/10 09:30	SOM01.2 VOA TRACE	5	
0011765-08	F3FY3	Water	9	39551	F3FY1	03/09/10 10:10	03/10/10 09:30	SOM01.2 VOA TRACE	5	MS/MSD
0011765-09	VHBLK55	Water	2	39551	F3FY1	03/10/10 00:00	03/10/10 09:30	SOM01.2 VOA TRACE	5	STORAGE BLANK

Work Order Comments and Special Instructions:

TVOA

Kishore
Reviewed By

3/12/10
Date

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277
www.a4scientific.com

Printed: 3/11/2010 7:17:06PM

Sample Log-in Report

WORK ORDER = 0011759

Client : NAZY ABOUSAEEDI
COMPUTER SCIENCES CORPORATION
15000 CONFERENCE CENTER DRIVE
CHANTILLY VA 201513819

Project : SOM01.2
Project Number : CLP SAMPLES
Courier/Airbill # : Fed Ex / 870536934094
COC/TR # : 6-043013577-031010-0003

Lab Sample	Client Sample	Matrix	#Cont.	Case	SDG	Sampled	Received	Analysis	TAT	Comments
0011759-01	F3FY7	Water	3	39551	F3FY1	03/10/10 13:22	03/11/10 13:00	SOM01.2 VOA TRACE	5	
0011759-02	F3FZ2	Water	3	39551	F3FY1	03/10/10 15:00	03/11/10 13:00	SOM01.2 VOA TRACE	5	
0011759-03	F3FY6	Water	3	39551	F3FY1	03/10/10 12:45	03/11/10 13:00	SOM01.2 VOA TRACE	5	
0011759-04	F3FZ4	Water	3	39551	F3FY1	03/10/10 11:15	03/11/10 13:00	SOM01.2 VOA TRACE	5	
0011759-05	F3FZ5	Water	3	39551	F3FY1	03/10/10 11:40	03/11/10 13:00	SOM01.2 VOA TRACE	5	
0011759-06	F3FZ6	Water	3	39551	F3FY1	03/10/10 16:20	03/11/10 13:00	SOM01.2 VOA TRACE	5	
0011759-07	F3FZ3	Water	3	39551	F3FY1	03/10/10 15:35	03/11/10 13:00	SOM01.2 VOA TRACE	5	FINAL Sx

Work Order Comments and Special Instructions:

TVOA

Kishore
Reviewed By

3/11/10
Date

11747-A
65

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.					Page 1 of 1
Received By (Print Name) RAMKISHOR					Log-in Date 3/10/10
Received By (Signature) Kishore					3/12/10
Case Number 39551		Sample Delivery Group No. F3F~~X7~~Y1			Mod. Ref. No. NA
Remarks:			Corresponding		
		EPA Sample #	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FZ0	6-487761-to 70	0011747-01 65	3-40mL INTACT ~~6-1L AMBER~~ ↓
2. Custody Seal Nos.	NA ↓	↓ Z1	6-487772-to 781	↓ -02	3-40mL ~~5-1L AMBER~~ ↓ ~~1-1L AMBER~~ Broken
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	867317986988				
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	4°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/10/10				
12. Time Received	9:30				
Sample Transfer					
Fraction Extractable	Fraction				
Area # Cooler A	Area #				
By Kishore	By 3/10/10				
On 3/10/10	On				

Rec 3/12/10

Rec 3/10/10

* Contact SMO and attach record of resolution.

Reviewed By [signature]	Logbook No. NA
Date 3/15/10	Logbook Page No. NA

000000361

SOM01.2(5/2005)

1174~~7~~65-B

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.				Page 1 of 1
Received By (Print Name) RAMKISHOR				Log-in Date 03/10/10
Received By (Signature) Kishor				Re 3/12/10
Case Number 39551	Sample Delivery Group No. F3FX7Y1			Mod. Ref. No. NA
Remarks:		Corresponding		
	EPA Sample #	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s) Present/Absent* Intact/Broken	F3FX7	6487455 to 464	0011747-03 65	3-40mL ~~6-LAMBER~~ INTACT
2. Custody Seal Nos. NA	Y4	6487703 to 712	-04	↓
↓	Y5	6487713 to 15	-05	3-40mL ↓
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists Present/Absent*				
4. Airbill Airbill/Sticker Present/Absent*				
5. Airbill No. 8613 1798 6988				
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			RK 3/10/10	
9. Cooler Temperature 4°C				
10. Does information on TR/COCs and sample tags agree? Yes/No*				
11. Date Received at Laboratory 03/10/10				
12. Time Received 9:30				
Sample Transfer				
Fraction Extractable / ~~Fraction~~				
Area # Cooler A / Area #				
By Kishor / By RK 3/10/10				
On 3/10/10 / On				

* Contact SMO and attach record of resolution.

Reviewed By [signature]	Logbook No. NA
Date 3/15/10	Logbook Page No. NA

000000362

SOM01.2(5/2005)

11747-C
65

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.				Page 1 of 1
Received By (Print Name) RAMKISHOR				Log-in Date 3/10/10
Received By (Signature) Kishore				Re 3/12/10
Case Number 39551	Sample Delivery Group No. F3FX7Y1			Mod. Ref. No. NA
Remarks:		Corresponding		
	EPA Sample #	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc. Re 3/12/10
1. Custody Seal(s) (Present/Absent* Intact/Broken)	F3FY1	6-487650 to 659	0011747-06 65	3-40ml INTACT 6-~~1L AMBER~~ ↓
2. Custody Seal Nos. NA ↓				
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists (Present/Absent*)				
4. Airbill (Airbill/Sticker Present/Absent*)				
5. Airbill No. 867317986988				
6. Sample Tags (Present/Absent*)				
Sample Tag Numbers (Listed/Not Listed on Chain-of-Custody)				
7. Sample Condition (Intact/Broken*/Leaking)				Re 3/10/10
8. Cooler Temperature Indicator Bottle (Present/Absent)				
9. Cooler Temperature 4°C				
10. Does information on TR/COCs and sample tags agree? (Yes/No*)				
11. Date Received at Laboratory 3/10/10				
12. Time Received 9:30				
Sample Transfer				
Fraction Extractable / Fraction				
Area # Cooler A / Area #				
By Kishore / By Re 3/10/10				
On 3/10/10 / On				

* Contact SMO and attach record of resolution.

Reviewed By [signature] 3/15/10	Logbook No. NA
Date	Logbook Page No. NA

000000363

SOM01.2(5/2005)

11747-D
65

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.	Page 1 of 1
Received By (Print Name) RAMKISHOR	Log-in Date 3/10/10
Received By (Signature) Kishore	Rec 3/12/10
Case Number 39551	Sample Delivery Group No. F3FX7Y1
Mod. Ref. No. NA	

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FY2	6487661470	001174~~7~~-07 65	3-40mL ~~6-1L AMBER~~ INTACT
2. Custody Seal Nos.	NA ↓	↓ Y3	6487685 1090	↓ -08	~~6-1L AM~~ ↓
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	867317986988				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/ Leaking				Rec 3/10/10
8. Cooler Temperature Indicator Bottle	Present/Absent				
9. Cooler Temperature	4°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/10/10				
12. Time Received	9:30				

Sample Transfer

Fraction	Extractable	Fraction	
Area #	Cooler A	Area #	
By	Kishore	By	Rec 3/10/10
On	3/10/10	On	

* Contact SMO and attach record of resolution.

Reviewed By [signature] 3/15/10	Logbook No. NA
Date	Logbook Page No. NA

000000364

SOM01.2(5/2005)

11747-E
65

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.					Page 1 of 1
Received By (Print Name) RAMKISHOR					Log-in Date 3/10/10
Received By (Signature) Kishore					Rec 3/12/10
Case Number 39551		Sample Delivery Group No. F3F~~X7~~Y1			Mod. Ref. No. NA
Remarks:			Corresponding		
		EPA Sample #	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FY3	6-487673 to 6-487701	0011747-08 65	~~12-1LAMBER~~ 9-40mL INTACT
2. Custody Seal Nos.	NA				
	↓				
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	867 3 179 8 6988				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/ Leaking				Rec 3/10/10
8. Cooler Temperature Indicator Bottle	Present/Absent				
9. Cooler Temperature	4°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/10/10				
12. Time Received	9:30				
Sample Transfer					
Fraction Extractable	Fraction TVOA				
Area # Cooler A	Area # Cooler B				
By Kishore	By Kishore				
On 3/10/10	On 3/10/10				

Rec 3/12/10

* Contact SMO and attach record of resolution.

Reviewed By [signature] 3/15/10	Logbook No. NA
Date	Logbook Page No. NA

000000365

11758-A

Rec 3/11/10

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.	Page 1 of 1
Received By (Print Name) RAMKISHOR	Log-in Date 3/11/10
Received By (Signature) Kishore	Rec 3/11/10
Case Number 39551	Sample Delivery Group No. F3F~~X7~~Y1 — Mod. Ref. No. NA

Remarks:		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab # (Rec 3/11/10)	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FY7	6-487728 to 6-487731	0011758-01	3-40mL ~~6-LAMBER~~ INTACT
2. Custody Seal Nos.	NA	Z2	6-487783+092	↓ -02	↓ ↓
	↓				
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	8705 3693 4094				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody			Rec 3/11/10	
7. Sample Condition	Intact/Broken*/ Leaking				
8. Cooler Temperature Indicator Bottle	Present/Absent				
9. Cooler Temperature	4°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/11/10				
12. Time Received	13:00				

Sample Transfer	
Fraction Extractable	Fraction NOA
Area # Cooler A	Area # Cooler B
By Kishore	By Kishore
On 3/11/10	On 3/11/10

* Contact SMO and attach record of resolution.

Reviewed By [signature] 3/15/10	Logbook No. NA
Date	Logbook Page No. NA

000000366

SOM01.2(5/2005)

11759-B

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.	Page 1 of 1
Received By (Print Name) RAMKISHOR	Log-in Date 3/11/10
Received By (Signature) Kishore	
Case Number 39551	Sample Delivery Group No. F3FY1 — Mod. Ref. No. NA

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FY6	6-487717 to 19	0011759-03	3-40ml Intact
2. Custody Seal Nos.	NA	Z4	6-487804 to 06	-04	
	↓	Z5	6-487808 to 10	-05	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	870536934109				
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	4°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/11/10				
12. Time Received	13:00				

Sample Transfer

Fraction Extractable	Fraction VOA
Area # Cooler A	Area # Cooler B
By Kishore	By Kishore
On 3/11/10	On 3/11/10

PR 3/11/10

* Contact SMO and attach record of resolution.

Reviewed By [signature] 3/15/10	Logbook No. NA
Date	Logbook Page No. NA

000000367

SOM01.2(5/2005)

11759-C

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.	Page 1 of 1
Received By (Print Name) RAMKISHOR	Log-in Date 3/11/10
Received By (Signature) Kishore	
Case Number 39551	Sample Delivery Group No. F3FY1 — Mod. Ref. No. NA

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FZ6	6487826 to 28	0011759-06	3-40mL Intact
2. Custody Seal Nos.	NA				
	↓				
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	8673 1798 6977				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody			Re 3/11/10	
7. Sample Condition	Intact/Broken*/Leaking				
8. Cooler Temperature Indicator Bottle	Present/Absent				
9. Cooler Temperature	6°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/11/10				
12. Time Received	13:00				

Sample Transfer

Fraction Extractables	Fraction TVOA
Area # Cooler A	Area # Cooler B
By Kishore	By Kishore
On 3/11/10	On 3/11/10

* Contact SMO and attach record of resolution.

Reviewed By Anjay	Logbook No. NA
Date 3/15/10	Logbook Page No. NA

000000366

SOM01.2(5/2005)

11759-D

SAMPLE LOG-IN SHEET
FORM DC-1

Lab Name A4 SCIENTIFIC, INC.	Page 1 of 1
Received By (Print Name) RAMKISHOR	Log-in Date 3/11/10
Received By (Signature) Kishore	
Case Number 39551	Sample Delivery Group No. F3FY1 — Mod. Ref. No. NA

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	F3FZ3	6487801+003	0011759-07	3-40ml Intact
2. Custody Seal Nos.	NA				
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present/Absent*				
4. Airbill	Airbill/Sticker Present/Absent*				
5. Airbill No.	8705 3693 4083				
6. Sample Tags	Present/Absent*				
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
7. Sample Condition	Intact/Broken*/ Leaking			RU 3/11/10	
8. Cooler Temperature Indicator Bottle	Present/Absent				
9. Cooler Temperature	4°C				
10. Does information on TR/COCs and sample tags agree?	Yes/No*				
11. Date Received at Laboratory	3/11/10				
12. Time Received	13:00				

Sample Transfer

Fraction	Extractable	Fraction	TVOA
Area #	Cooler A	Area #	Cooler B
By	Kishore	By	Kishor
On	3/11/10	On	3/11/10

* Contact SMO and attach record of resolution.

Reviewed By Lapey 3/15/10	Logbook No. NA
Date	Logbook Page No. NA

000000365

SOM01.2(5/2005)

11747A

FedEx. Express *US Airbill*

FedEx Tracking Number 8673 1798 6988

Form ID No. 0200 Sender's Copy (6)

1 From *Please print and press hard.*

Date

Sender's FedEx Account Number SENDER DEA CO NO

Sender's Name April Palmie Ph: 512-239-4152 ( )

Company TCEQ
12100 Park 35 Circle MC-136
Austin, TX 78753

Address Fex Ex Acct: 3529 7878 7

Dept./Floor/Suite/Room

City State ZIP

Kishor 3/10/10 9:20

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

70848

3 To

Recipient's Name Phone ( )

Company Jessica Schulze Phone: 281-292-5277

Recipient's Address A4
We cannot deliver to
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Dept./Floor/Suite/Room

Address
To request a packag.

City State ZIP

Void Pro

Snee 03/15/10

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500

6 Special Handling Include FedEx address in Section 3.

- [X] SATURDAY Delivery — NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

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

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

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery/*Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery/*Fee applies.*

520

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000000370

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. COOLER

DATE 03/09/10

SIGNATURE [signature]

PRINT NAME AND TITLE (Inspector, Analyst or Technician)
NANCY JOHNSON F.M.

SEAL BROKEN BY

DATE

EPA FORM
7500-2(R7-75)

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. COOLER

DATE 03/09/10

SIGNATURE [signature]

PRINT NAME AND TITLE (Inspector, Analyst or Technician)
NANCY JOHNSON

SEAL BROKEN BY

DATE

EPA FORM
7500-2(R7-75)

11747-A

000000371

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. Cooler

DATE 02/09/10

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

Nancy Johnson PA

SEAL BROKEN BY

DATE

EPA FORM 7500-2(5-75)

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE 02/09/10

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

Nancy Johnson, PA

SEAL BROKEN BY

DATE

EPA FORM 7500-2(5-75)

11747-B

000000372

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. Cooler

DATE 03/09/10

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)
Mandy Johnson PM

SEAL BROKEN BY

DATE

EPA FORM 7510C-2(12-75)

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. Cooler

DATE 03/09/10

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)
Mandy Johnson PM

SEAL BROKEN BY

DATE

EPA FORM 7510C-2(12-75)

11747-C

00000373

11747-D

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. [illegible]

DATE [illegible]

SIGNATURE [illegible]

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

[illegible]

SEAL BROKEN BY

DATE

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO. Cooler

DATE [illegible]

SIGNATURE [illegible]

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

Nancy Johnson, [illegible]

SEAL BROKEN BY

DATE

EPA FORM
7500-2 (11-75)

000000374

FedEx 4 of 5

MPS# 0681 7955 3408 1862

Mstr# 8673 1798 6988 0200

WED - 10 MAR A1

PRIORITY OVERNIGHT

77380

TX-US

IAH

Part # 156297-435 RIT 11/09

11747-E

00000375

11747-E

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

SEAL BROKEN BY

DATE

EPA FORM
7500-2(F7-75)

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

SEAL BROKEN BY

DATE

EPA FORM
7500-2(F7-75)

000000376

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE 03/10/[illegible]

SIGNATURE [illegible]

PRINT NAME AND TITLE (Inspector, Analyst or Technician)
SUSAN SIKSESTHA

SEAL PROTECTION BY

DATE

EPA FORM 5[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

117582 A

000000377

~~11758-B~~
11759-B

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

SUGAM SHRESTHA

SEAL BROKEN BY

DATE

EPA FORM
7500-2 (REV.)

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

SUGAM SHRESTHA

SEAL BROKEN BY

DATE

EPA FORM
7500-2 (REV.)

000000378

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE 03/10/10

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

SUGAR AHRESTHA

SEAL BROKEN BY

DATE

EPA FORM

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE 03/10/10

SIGNATURE

PRINT NAME AND TITLE (Inspector, Analyst or Technician)

SUGAR AHRESTHA

SEAL BROKEN BY

DATE

11759-C

000000375

11759-D

00000388

A4 Scientific 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 281-292-5277	Sample Custody Logbook **COOLER B**			
Effective	Area	Type	Number-Version	RCN
26-Aug-2009	**QA**	**FORM**	**6FORM38-A**	**819-0201**

Sample Custodian Check in:

Login Thermometer ID: T70197 Work Order: 11765

SAMPLE ID	CONTAINER TYPE & NO.	DATE/TIME SIGNED IN	SIGNED IN BY	SAMPLE ID	CONTAINER TYPE & NO.	DATE/ TIME SIGNED IN	SIGNED IN BY
11765-01 to 07	3-40 mL	3/10/10 11:45	Kishu				
↓-08	2-40mL	↓	↓				RC 3/10/10
↓-09	2-40mL	↓	↓				

Analyst Checkout/Check in:

SAMPLE ID	CONTAINER TYPE	QUANTITY	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
11765-01	40mL	1	Sh	3/12/10 8:10	VOA	Sh	3/12/10 13:00	
↓ to-08	↓	↓	↓	↓	↓	↓	↓	Sh 3/15/10
11765-08	↓	1	↓	↓	↓	↓	↓	
11765-08	40mL	1	Sh	3/15/10 8:55	VOA	Sh	3/15/10 12:00	
↓-09	↓	↓	↓	↓	↓	↓	↓	
			Sh 3/15/10					

Container type: 40ml, 2WM, 4WM, 8WM, 16WM, 32WM, 1L Amber, 80 Amber, 1L Poly, 16 Poly,
Other:

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.

000000381

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
281-292-5277

Sample Custody Logbook
COOLER B

Effective	Area	Type	Number-Version	RCN
26-Aug-2009	QA	FORM	6FORM38-A	819-0201

Sample Custodian Check in:

Login Thermometer ID: T70197 Work Order: 11759

SAMPLE ID	CONTAINER TYPE & NO.	DATE/TIME SIGNED IN	SIGNED IN BY	SAMPLE ID	CONTAINER TYPE & NO.	DATE/ TIME SIGNED IN	SIGNED IN BY
11759-01 to 07	3-40mL	3/11/10 15:00	Kishan				
						Rec	3/11/10

Analyst Checkout/Check in:

SAMPLE ID	CONTAINER TYPE	QUANTITY	SIGNED OUT BY	DATE/ TIME SIGNED OUT	PREP OR ANALYSIS	SIGNED IN BY	DATE/ TIME SIGNED IN	REMARKS
11759-01	40mL	1	[signature]	3/12/10 8:10	VOA	[signature]	3/12/10 13:00	[signature] 3/12/10
↓ to 07	↓	↓	↓	↓	↓	↓	↓	

[signature] 3/12/10

Container type: 40ml, 2WM, 4WM, 8WM, 16WM, 32WM, 1L Amber, 80 Amber, 1L Poly, 16 Poly, Other:

Empty containers must be returned to the SAMPLE CUSTODIAN and documented as empty.