

12/17/09 SV 524-12170904 0.1N H₂SO₄
 5.8 ml conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
 ↑ 2L W/DI H₂O
 EXP: 9/13/10

12/18/09 SV 524-12180901 1000 PPM NH₃
 0.3141g NH₄Cl (EMD 49198931; EXP: 10/19/14) ↑
 100 ml w/ 524-12170904 (EXP: 9/13/10)
 EXP: 9/13/10

Reviewed And Approved By:

Initial: VR Date: 12/22/09

12/28/09 SV 524-12280901 A & B NH₃ PHADJUSTING LSA
 PURCHASED
 Thermo Scientific Cat# 951211
 Lot Code: NWJ P/N: 207475-A01
 EXP: 12/28/10

12/28/09 SV 524-12280902 0.1 ~~AA~~ N H₂SO₄
 5.8 ml conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
 ↑ 2L W/DI H₂O
 EXP: 9/13/10

12/28/09 SV 524-12280903 0.1 N H₂SO₄
 5.8 ml conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
 ↑ 2L W/DI H₂O
 EXP: 9/13/10

14

3/1/10
SV 524-03011001 PH 4.000 Buffer
Purchased 500ml CAT# 5657-01
JT BAKER LOT# H31526
EXP 8/31/11

3/1/10
SV 524-03011002 PH 7.000 Buffer
Purchased 500ml CAT# 5656-01
JT BAKER LOT# H47531
EXP: 1/31/12

3/1/10
SV 524-03011003 1000 PPM Cl (LCS)
Purchased 120ml Cat# 1955-4
RICA CHEM CO LOT# 1001395
EXP: 7/20/11

3/1/10
SV 524-03011004 NH3 Filling Soln
Purchased 60ml Oriol 951202
Thermo Scientific LOT# MT1
P/N: 702613-A04
EXP: 3/1/11

3/2/10
SV 524-03021001 PH 10.000 buffer
Purchased 500ml Cat# 5655-01
JT Baker LOT H34508
EXP: 9/30/11

5/5/10
JW
524-05051001 Cr⁶⁺ Coloring Reagent
0.25g 1,5-Diphenylcarbohydrazide (EMD 47103721;
EXP: 1/30/13.) ↑ 50 ml w/ Acetone (EMD 4715413;
EXP: 9/24/12).
EXP: 5/19/10

5/5/10
JW
524-05051002 IC02 PCR
Dissolve 0.5g 1,5-Diphenylcarbohydrazide (EM 47103721
exp: 1/30/13) in 100 mL Methanol (B&J CW045 exp: 5/7/13).
Add to 1 L volumetric flask containing 500 mL DI water +
5.6 mL conc. H₂SO₄ (EMD 47050 exp: 9/13/10). Bring
up to volume w/ DI H₂O; mix and degas.

EXP: 5/10/10

5/5/10
JW
524-05051003 IC02 Eluent
100 ml 524-04291002 (10x conc Eluent; EXP 4/29/10)
↑ 1 L w/ DI H₂O. DEGASSED
EXP: 5/19/10

5/10/10
JW
524-05101001 ICV/CCV Cr⁶⁺ Sol'n TV=0.579ppm
0.5 ml 519-04090904 (115.8 ppm; EXP 12/2010) ↑
100 ml w/ DI H₂O
EXP: 5/24/10

5/13/10
JW
524-05131001 0.1 N H₂SO₄
5.6 ml conc H₂SO₄ (EMD 47050 EXP 9/13/10)
↑ 2 L w/ DI H₂O
EXP: 9/13/10

5/18/10 524-05781001 Civet coloring reagent
 0.2500g 1,5-diphenylcarbohydrazide (EMD 47103721;
 EXP: 1/30/13) ↑ 50ml w/Acetone (EMD 47154; EXP: 9/13/10)
 EXP: 6/1/10

5/20/10 524-05201001 1000 PPM NH₃
 0.3141g NH₄Cl (EMD 49198931; EXP: 10/19/14)
 ↑ 100 ml w/ 524-05131001 (EXP: 9/13/10)
 EXP: 9/13/10

5/20/10 524-05201002 0.1 N H₂SO₄
 5.6ml conc H₂SO₄ (EMD 47050 EXP: 9/13/10) ↑ 2L w/ DI H₂O
 EXP: 9/13/10

5/24/10 524-05241001 2N NaOH
 4.00g NaOH (EMD 47022713B; EXP: 10/11/12)
 ↑ 2L w/ DI
 EXP: 5/24/11

5/26/10 524-05261001 0.1N H₂SO₄
 5.6ml Conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
 ↑ 2L w/ DI H₂O
 EXP: 9/13/10

LABORATORY REPORT

June 15, 2010

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglar - Kronquist / 0907194.000.0601

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on May 21, 2010. For your reference, these analyses have been assigned our service request number P1001782.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 16 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA; Washington State Department of Ecology, ELAP Lab ID: C946. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Kelly Horiuchi
Project Manager

Client: Exponent
Project: Heglar - Kronquist / 0907194.000.0601

CAS Project No: P1001782

CASE NARRATIVE

The samples were received intact under chain of custody on May 21, 2010 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

At the client's request the following changes were made:

- The sample volume for D-1 is 12.91L, as opposed to 12.9L which is listed on the chain of custody.
- The sample volume for D-10 is 13.67L, as opposed to 13.7L which is listed on the chain of custody.

Ammonia Analysis

The samples were prepared in accordance with OSHA ID-188 and analyzed for ammonia in air by Ion Selective Electrode per OSHA ID-164.

The samples labeled as D-1(Low) and D-10(Low) are being reported in lieu of D-1 and D-10 because of breakthrough.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Exponent
Project: Heglar - Kronquist/0907194.000.0601

Service Request: P1001782

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P1001782-001	D-1	5/19/10	16:15
P1001782-002	D-10	5/19/10	16:15
P1001782-003	D-1(Low)	5/19/10	18:07
P1001782-004	D-10(Low)	5/19/10	18:07
P1001782-005	NH3-Blank	5/19/10	19:22



2655 Park Center Drive, Suite A
 Simi Valley, California 93065
 Phone (805) 526-7161
 Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Company Name & Address (Reporting Information) Melissa Kleven Exponent 15375 SE 30th Pl, #250 Bellevue, WA 98007 Project Manager Melissa Kleven Phone 425-519-8774 Fax 425-519-8799 Email Address for Result Reporting MKleven@exponent.com		Project Name Heglar - Kronquist Project Number 0907194-000-001 P.O. # / Billing Information same Sampler (Print & Sign) Eric chery <i>[Signature]</i>		Requested Turnaround Time in Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard		CAS Project No. PWD1782	
Laboratory ID Number ① ② ③ ④ ⑤		Date Collected 5.19.10 5.19.10 5.19.10 5.19.10 5.19.10		Time Collected 1615 1615 1807 1807 1922		Canister ID (Bar code # - AC, SC, etc.) Eric chery <i>[Signature]</i>	
Client Sample ID D-1 D-10 D-1 (LOW) D-10 (LOW) NH3-Blank		Canister Start Pressure (Hg, in) 12.91 13.47 4.11		Canister End Pressure (Hg/psig) 12.91 13.47 4.11		Sample Volume 342L 336L 0	
Analysis Method Ambient OSHA 188		Flow Controller ID (Bar code # - FC #) Eric chery <i>[Signature]</i>		EDD required: Yes <input type="radio"/> No <input checked="" type="radio"/>		Project Requirements (MRLs, QAPP)	
Report Tier Levels - please select Tier I - (Results/Default if not specified) Tier II - (Results + QC)		Tier III (Data Validation Package) 10% Surcharge <input checked="" type="checkbox"/> Tier V (client specified)		Received by (Signature) <i>[Signature]</i> Received by (Signature) <i>[Signature]</i>		Time 1600 0915	
Relinquished by: (Signature) MK		Date 5/29/10		Relinquished by: (Signature) Eric chery <i>[Signature]</i>		Cooler / Blank Temperature °C	

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Exponent
Client Project ID: Heglar - Kronquist / 0907194.000.0601

CAS Project ID: P1001782

Ammonia

Test Code: OSHA ID-188/ID-164
Instrument ID: PH02/Orion 720A/Ammonia ISE
Analyst: Sue Anderson
Sampling Media: Anasorb 747 Tube(s) (Sulfuric Treated)
Test Notes: **BC, DE**

Date(s) Collected: 5/19/10
Date Received: 5/21/10
Date Analyzed: 6/1/10
Desorption Volume: 0.10 Liter(s)

Client Sample ID	CAS Sample ID	Sample		Result mg/Tube	Result mg/m ³	MRL mg/m ³	Result ppmV	MRL ppmV	Data Qualifier
		Volume Liter(s)	Dilution Factor						
D-1(Low)	P1001782-003	3.42	1.0	5.9	1,700	3.0	2,500	4.4	
D-10(Low)	P1001782-004	3.36	1.0	6.1	1,800	3.1	2,600	4.4	
NH3-Blank	P1001782-005	NA	1.0	< 0.010	NA	NA	NA	NA	
Method Blank	P100601-MB	NA	1.0	< 0.010	NA	NA	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

NA = Not applicable.

BC = Results reported are not blank corrected.

DE = Results reported are corrected for desorption efficiency.

Verified By: _____ Date: _____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client: Exponent
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Heglar - Kronquist / 0907194.000.0601

CAS Project ID: P1001782
 CAS Sample ID: P100601-LCS,
 P100601-DLCS

Laboratory Control Sample/Duplicate Laboratory Control Sample Summary

Test Code: OSHA ID-188/ID-164
Instrument ID: PH02/Orion 720A/Ammonia ISE
Analyst: Sue Anderson
Sampling Media: Anasorb 747 Tube(s) (Sulfuric Treated)
Test Notes:

Date Sampled: N/A
 Date Received: N/A
 Date Analyzed: 6/01/10
 Volume(s) Analyzed: N/A

Compound	Spike Amount LCS / DLCS mg/L	Result		% Recovery		CAS Acceptance Limits	Relative Percent Difference	RPD Limit	Data Qualifier
		LCS mg/L	DLCS mg/L	LCS	DLCS				
Ammonia	1.00	0.914	0.900	91	90	84-110	1	20	

COLUMBIA ANALYTICAL SERVICES

Method : ISE Method for Ammonia in Air

Printed : 6/2/2010
 Client : Exponent
 Analyst : SMA
 CAS Job : P1001782
 Method: OSHA ID-188/ ID-164



Instrument: pH02
 Date Analyzed: 6/2/2010
 Detector: NA
 Sample Amt: 0.100 L
 Solvent: 0.1 N H2SO4
 Matrix: Anasorb 747 (sulfuric treated)

SAMPLE RESULT

Sample	Ammonia (mg/L)	Desorption Vol (L)	Dilution	Sample Vol (L)	Ammonia (mg/tube)*	mg/m3
MW	17.03					
MRL	0.100	0.1	1.0	NA	0.01	
RB	0.0097	NA	NA	NA		
MB	0.0099	0.100	1.0	NA	ND	ND
1782-001	47.3 BT	0.050	1.0	12.91	2.461	190.6
1782-002	40.5 BT	0.050	1.0	13.67	2.107	154.1
1782-003	1.16	0.050	1.0	3.42	0.060	17.6
1782-004	3.61	0.050	1.0	3.36	0.188	55.9
1782-005	0.0406	0.050	1.0	NA	ND	ND
1782-001	64.2	0.100	1.0	12.91	6.681	517.5
1782-002	68.7	0.100	1.0	13.67	7.149	522.96
1782-003	56.0	0.100	1.0	3.42	5.827	1703.878
1782-004	57.1	0.100	1.0	3.36	5.942	1768.371
1782-005	0.0331	0.100	1.0	NA	ND	ND

Sample	Ammonia (ppm)
1782-001	273.794
1782-002	221.399
1782-003	25.347
1782-004	80.289
1782-005	ND
1782-001	743.237
1782-002	751.12
1782-003	2447.261
1782-004	2539.892
1782-005	ND

*samples are DE corrected

Desorption Efficiency (DE): 0.961

QC

0.121 mg/L NH3 ICV S19-04060904 (6/2010) 0.121
 ACTUAL 0.115
 % RECOVERY 95.0%

0.121 mg/L NH3 CCV1 S19-04060904 (6/2010) 0.121
 ACTUAL 0.116
 % RECOVERY 95.9%

60.7 mg/L NH3 CCV2 S19-04060904 (6/2010) 60.7
 ACTUAL 56.5
 % RECOVERY 93.1%

0.121 mg/L NH3 CCV3 S19-04060904 (6/2010) 0.121
 ACTUAL 0.117
 % RECOVERY 96.7%

LCS 1.00
 SPIKE STD 0.914
 % RECOVERY 91.4%

LCSD 1.00
 SPIKE STD 0.900
 % RECOVERY 90.0%

%RPD; 1.5%



Ammonia in Air
OSHA ID-188/ID-164

Page 1 of 2

Filling solution changed prior to analysis: Yes / No

Prep. Run# 112703 Run # 202994

Stds.	Conc. mg/L	millivolts mV	Slope:
			Range [-54--60]
Std 1:	0.10	167.0	-58.7
Std 2:	1.00	108.4	
Std 3:	5.00	68.5	
Std 4:	10.00	50.4	
Std 5:	100.00	-8.4	

	Ref#	Exp.Date	Prep'n
Stock 1000 ppm	524-0520100	1/13/10	—
ICV/CCV 1214 ppm	519-04060904	6/30/10	to 0.05/50 => 0.121 ppm 2.5/50 => 60.7 ppm
pH Buffer ; ISA	524-63081001	3/8/11	--
Filling Soln	524-03110004	3/1/11	--

DE = 0.961

DE CORRECTED

AMV

Sample I.D.	Volume mL	millivolts mV	Concentration mg/L		Final Value mg/m ³	
					mg	mg/m ³
ICB	50 ml	226.5	0.0097	20.1		
ICV 0.121 ppm		163.5	0.115	95%		
MB		226.7	0.0099	20.1	20.011	
LCS 1.00 mg/L		110.7	0.914	91%	0.0951	
DACS		111.1	0.900	90%	0.0937	
1590-1.04 BACK		196.2	0.0319		20.011	28.01
-1.04 FRONT		196.1	0.0321		20.011	
-2.04 BACK		196.4	0.0317		20.011	
-2.04 FRONT		192.0	0.0377		20.011	
-3.04 BACK		205.7	0.0220		20.011	
-3.04 FRONT		163.0	0.117		0.0122	9.37
1590-CB BACK		203.0	0.0245		20.011	210.41
CCV1 0.121 ppm		163.2	0.116	96%		
CCV1		228.2	0.0091	20.1		
1590-CB FRONT		205.6	0.0221		20.011	210.41
1782-1.01 BACK		10.7	47.3		2.46	191
-1.01 FRONT		2.9	64.2		6.68	517
-2.01 BACK		14.7	40.5		2.11	154
-2.01 FRONT		1.2	68.7		7.15	523
-3.01 BACK		104.8	1.16		0.060	17.6
-3.01 FRONT		6.4	56.0		5.83	1704
-4.01 BACK		76.6	3.61		0.188	55.9
-4.01 FRONT		5.9	57.1		5.94	1768

2.5% RPD

13.45

214.95

274
743
221
751
25.3
2447
2540

Comments:

ANALYST: [Signature]
Date/Time: 6/2/10 @ 0900

Reviewer: [Signature]
Date: 6/3/10



Ammonia in Air
OSHA ID-188/ID-164

page 282

Filling solution changed prior to analysis: Yes / No

Prep. Run# 112703 Run # 262994

Stds.	Conc. mg/L	millivolts mV	Slope:
			Range [-54--60]
Std 1:	0.10	167.0	-58.7
Std 2:	1.00	108.4	
Std 3:	5.00	68.5	
Std 4:	10.00	50.4	
Std 5:	100.00	-8.4	

	Reff#	Exp.Date	Prep'n
Stock 1000 ppm	524-05261004	9/13/10	-
ICV/CCV 1214 ppm	519-04060904	6/20/10	$\frac{2.5}{50} \Rightarrow 60.7 \text{ PPM}$ $\frac{1}{10} \cdot \frac{0.05}{50} \Rightarrow 0.121 \text{ PPM}$
pH Buffer ; ISA	524-07081001	3/8/11	--
Filling Soln	524-03011004	3/1/11	--

DE = 0.961

DE CORRECTED →

JR
6/2/10

Sample I.D.	Volume mL	millivolts mV	Concentration		Final Value	
			mg/L		mg	mg/m ³
ICB 1782-5.01 <i>MAVL 50 ml</i>		190.0	0.0406		20.011	
ICV CCVZ 60.7 PPM		6.2	56.5	93%		
MA CCB2		228.2	0.0091	10.1		
ICS 1782-5.01 <i>FRONT</i>		195.4	0.0331		20.011	
CCV3 0.121 PPM		163.0	0.117	97%		
CCB3		228.4	0.0088	10.1		
<i>space not used</i>						

Comments:

ANALYST: *JR*
Date/Time: 6/2/10

Reviewer: *MM*
Date: 6/3/10

Ammonia in Air Extraction
ID-188/ID-164

Date	Time	Sample Name	Tube ID SKC Lot # 6101 Exp: 6/2011	Date Collected	Volume 0.1N H ₂ SO ₄ for extraction	Final Volume w/ 0.1 N H ₂ SO ₄	Comments
6/1/10	0630-10110	MB	3005101582 (BACK) + 3005101646 (BACK)	NA	10 ml	100 ml	
		LCS (FRONT)	3005101582	NA	10	100	
		DLS (FRONT)	3005101646	NA	10	100	
		(BACK) 1590-1.04	3005101578	5/31/10	5	50	1.3L
		(FRONT) -1.04	↓		10	100	↓
		(BACK) -2.04	3005101581		5	50	1.3L
		(FRONT) -2.04	↓		10	100	↓
		(BACK) -3.04	3005101573		5	50	1.3L
		(FRONT) -3.04	↓		10	100	↓
		(BACK) Chamber - BIK	300510575		5	50	1L
		(FRONT) Chamber - BIK	↓		10	100	↓
		1702-1.01 (BACK)	3005101647	5/19/10	5	50	12.9/L
		-1.01 (FRONT)	↓		10	100	↓
		(BACK) -2.01	3005101644		5	50	13.67L
		(FRONT) -2.01	↓		10	100	↓
		-3.01 (BACK)	3005101645		5	50	3.42L
		-3.01 (FRONT)	↓		10	100	↓
		-4.01 (BACK)	3005101574		5	50	3.36L
		-4.01 (FRONT)	↓		10	100	↓
		-6.01 (BACK)	3005101648		5	50	BIK
		-6.01 (FRONT)	↓		10	100	↓
Reagents:			0.1 N H ₂ SO ₄ Ref# 524-016011001	Exp: 9/13/10			
			LCS - spiked with 0.1 mL Ref# 524-05201001	Exp: 9/13/10			
Prep Run # 112703							

CLIENT HAS
-3,4 ON
H₂O.
MAY NOT
WANT RUN

Analyst: *JR* Date: 6/1/10

Reviewer: *MD* Date: 6/3/10 11

4/6/09 519-04060902 IC02 EWENT
100 ml 519-04060901 ↑ 1L w/ DI H2O. DEGASSED
EXP: 4/20/09

4/6/09 519-04060903 IC02 PCR

Dissolve 0.5g 1,5-Diphenylcarbohydrazide (EMD 47103731
exp: 1/30/13) in 100 mL Methanol (B&J C10045 exp: 5/07/13).
Add to 1 L volumetric flask containing 500 mL DI water +
5.6 mL conc. H2SO4 (EMD 47050 exp: 9/13/10). Bring
up to volume w/ DI H2O; mix and degas.

EXP: 4/11/09

4/6/09 519-04060904 1000PPM AS N AMMONIA (1214PPM AS NH₃)
PURCHASED
ORION 951007 : LOT MU1 P/N 702548-A07
EXP 6/2010

4/6/09 519-04060905 NH3 ISA BUFFER
PURCHASED
ORION 951211 : LOT: NZ1 P/N 207475-A01
EXP: 4/6/10

4/7/09 519-04070901 12.5 N NaOH
8.2g NaOH (EMD 45176538, EXP: 10/28/10) + 91.8g NaOH (EMD 47022712
EXP 10/11/12) PLUS 100 ml QF/DI
EXP: 4/7/10

4/7/09 519-04070902 IC02 1000ppb Cr6+
0.1ml 519-04210901 (1000PPM Cr6+; EXP: 2/1/10) ↑ 100 ml
w/ PH ADJUSTED (PH=9.478) H2O.
EXP: 2/1/10

4/7/09 519-04070903 IC02 Cr6+ STD ICV/CCV T.V=2.09ppm
0.5 ml 519-04010901 (0.418 ppm; EXP 5/1/09) ↑ 100ml w/ PH ADJUSTED (PH 9.478) H₂O
EXP: 4/21/09

3/1/10 524-03011001 PH 4.000 Buffer
 Purchased 500 ml CAT# 5657-01
 JT BAKER LOT # H31526
 EXP 8/31/11

3/1/10 524-03011002 PH 7.000 Buffer
 Purchased 500 ml CAT# 5656-01
 JT BAKER LOT # H47531
 EXP: 1/31/12

3/1/10 524-03011003 1000 ppm Cl (LCS)
 Purchased 120 ml Cat # 1955-4
 RICA CHEM CO LOT # 1001395
 EXP: 7/20/11

3/1/10 524-03011004 NH₃ Filling Soln
 Purchased 60 ml Oriox 951202
 Thermo Scientific LOT # MT1
 P/N: 702613-A04
 EXP: 3/1/11

3/2/10 524-03021001 PH 10.000 buffer
 Purchased 500 ml Cat # 5655-01
 JT Baker LOT H34508
 EXP: 9/30/11

3/4/10
 Ja 524-03041001 MBTH Soln
 0.5000g MBTH (Aldrich 54696EK; EXP 8/7/14)
 ↑ 100ml w/ DI H₂O + 0.5ml conc H₂SO₄
 (END: 47050; EXP: 9/13/10)
 EXP: 3/5/10

3/8/10
 Ja 524-03081001 PH ADJUSTING ISA
 PURCHASED
 Orion 951211 475ml
 LOT# NQ1 P/N 207475-A01
 EXP: 3/8/11

3/11/10
 Ja 524-03111001 MBTH Soln
 0.5000g MBTH (Aldrich 54696EK; EXP 8/7/14)
 ↑ 100ml w/ DI H₂O + 0.5ml conc H₂SO₄ (END 47050 EXP: 9/13/10)
 3/12/10

3/11/10
 Ja 524-03111002 1000PPM SO₃ (stock)
 0.1591g Na₂SO₃ (JT Baker H10627; EXP: 8/31/14) ↑
 100ml w/ DI H₂O
 EXP: 9/11/10

3/11/10
 Ja 524-03111003 1000 PPM SO₃ (ICV/CCV)
 0.1604g Na₂SO₃ (Mallinckrodt; H25469; EXP: 8/11/14)
 ↑ 100ml w/ DI H₂O
 EXP: 9/11/10

5/18/10 524-05181001 color coloring reagent
 0.2500g 1,5-diphenylcarbohydrazide (EMD 47103721;
 EXP: 1/30/13) ↑ 50ml w/ Acetone (EMD 47154; EXP: 9/24/12)
 EXP: 6/1/10

5/20/10 524-05201001 1000 PPM NH₃
 0.3141g NH₄Cl (EMD 49198931; EXP: 10/19/14)
 ↑ 100 ml w/ 524-05131001 (EXP: 9/13/10)
 EXP: 9/13/10

5/20/10 524-05201002 0.1 N H₂SO₄
 5.6ml conc H₂SO₄ (EMD 47050 EXP: 9/13/10) ↑ 2L w/ DI H₂O
 EXP: 9/13/10

5/24/10 524-05241001 2N NaOH
 4.00g NaOH (EMD 47022713B; EXP: 10/11/12)
 ↑ 2L w/ DI
 EXP: 5/24/11

5/26/10 524-05261001 0.1N H₂SO₄
 5.6ml Conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
 ↑ 2L w/ DI H₂O
 EXP: 9/13/10

6/1/10 524-06011001 0.1 N H₂SO₄
JW 5.6 ml Conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
↑ 2L W/DI H₂O
EXP: 9/13/10

6/2/10 524-06021001 0.1 N H₂SO₄
JW 5.6 ml Conc H₂SO₄ (EMD 47050; EXP: 9/13/10)
↑ 2L W/DI H₂O
EXP: 9/13/10



**Air
Toxics LTD.**
Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 1009208

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Comments:

Completed by:

Kara McKiernan

Kara McKiernan / Document Control

10/8/10

(Signature)

(Print Name & Title)

(Date)

WORK ORDER #: 1009208

Work Order Summary

CLIENT:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	BILL TO:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8750	P.O. #	S29-C083-2-2010
FAX:	425-643-9827	PROJECT #	0907194.000.0601 Heglar - Kronquist
DATE RECEIVED:	09/10/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	10/06/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	ALF-3	Modified TO-15	6.5 "Hg	5 psi
01B	ALF-3	Modified TO-15	6.5 "Hg	5 psi
02A	ALF-2	Modified TO-15	7.5 "Hg	5 psi
02B	ALF-2	Modified TO-15	7.5 "Hg	5 psi
03A	ALF-1	Modified TO-15	6.5 "Hg	5 psi
03B	ALF-1	Modified TO-15	6.5 "Hg	5 psi
04A	ALF-4	Modified TO-15	7.0 "Hg	5 psi
04B	ALF-4	Modified TO-15	7.0 "Hg	5 psi
05A	ALF-5	Modified TO-15	7.5 "Hg	5 psi
05B	ALF-5	Modified TO-15	7.5 "Hg	5 psi
06A	AOS-1	Modified TO-15	6.5 "Hg	5 psi
06B	AOS-1	Modified TO-15	6.5 "Hg	5 psi
07A	AOS-2	Modified TO-15	5.0 "Hg	5 psi
07B	AOS-2	Modified TO-15	5.0 "Hg	5 psi
08A	AOS-3	Modified TO-15	6.5 "Hg	5 psi
08B	AOS-3	Modified TO-15	6.5 "Hg	5 psi
09A	EB-090810	Modified TO-15	5.5 "Hg	5 psi


Continued on next page

WORK ORDER #: 1009208

Work Order Summary

CLIENT:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	BILL TO:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8750	P.O. #	S29-C083-2-2010
FAX:	425-643-9827	PROJECT #	0907194.000.0601 Heglar - Kronquist
DATE RECEIVED:	09/10/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	10/06/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
09B	EB-090810	Modified TO-15	5.5 "Hg	5 psi
10A	TB-090810	Modified TO-15	28.5 "Hg	5 psi
10B	TB-090810	Modified TO-15	28.5 "Hg	5 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
11C	Lab Blank	Modified TO-15	NA	NA
11D	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
12C	CCV	Modified TO-15	NA	NA
12D	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA
13AA	LCSD	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13BB	LCSD	Modified TO-15	NA	NA
13C	LCS	Modified TO-15	NA	NA
13CC	LCSD	Modified TO-15	NA	NA
13D	LCS	Modified TO-15	NA	NA
13DD	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 10/06/10

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
 This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Exponent
Workorder# 1009208**

Ten 6 Liter Summa Canister (SIM Certified) samples were received on September 10, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody contained incorrect method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

The Chain of Custody (COC) was not relinquished properly. A signature and date were not provided by the field sampler.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	Sample Condition
ALF-3	1009208-01A	9/ 7/2010	9/10/2010	NA	21	9/28/2010	NA	Good
ALF-3	1009208-01B	9/ 7/2010	9/10/2010	NA	21	9/28/2010	NA	Good
ALF-2	1009208-02A	9/ 7/2010	9/10/2010	NA	21	9/28/2010	NA	Good
ALF-2	1009208-02B	9/ 7/2010	9/10/2010	NA	21	9/28/2010	NA	Good
ALF-1	1009208-03A	9/ 7/2010	9/10/2010	NA	21	9/28/2010	NA	Good
ALF-1	1009208-03B	9/ 7/2010	9/10/2010	NA	21	9/28/2010	NA	Good
ALF-4	1009208-04A	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
ALF-4	1009208-04B	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
ALF-5	1009208-05A	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
ALF-5	1009208-05B	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
AOS-1	1009208-06A	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
AOS-1	1009208-06B	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
AOS-2	1009208-07A	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
AOS-2	1009208-07B	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
AOS-3	1009208-08A	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
AOS-3	1009208-08B	9/ 7/2010	9/10/2010	NA	22	9/29/2010	NA	Good
EB-090810	1009208-09A	9/ 8/2010	9/10/2010	NA	21	9/29/2010	NA	Good
EB-090810	1009208-09B	9/ 8/2010	9/10/2010	NA	21	9/29/2010	NA	Good
TB-090810	1009208-10A	NA	9/10/2010	NA	NA	9/29/2010	NA	Good
TB-090810	1009208-10B	NA	9/10/2010	NA	NA	9/29/2010	NA	Good
Lab Blank	1009208-11A	NA	NA	NA	NA	9/28/2010	NA	Good
Lab Blank	1009208-11B	NA	NA	NA	NA	9/28/2010	NA	Good
Lab Blank	1009208-11C	NA	NA	NA	NA	9/28/2010	NA	Good
Lab Blank	1009208-11D	NA	NA	NA	NA	9/28/2010	NA	Good
CCV	1009208-12A	NA	NA	NA	NA	9/27/2010	NA	Good
CCV	1009208-12B	NA	NA	NA	NA	9/27/2010	NA	Good
CCV	1009208-12C	NA	NA	NA	NA	9/28/2010	NA	Good
CCV	1009208-12D	NA	NA	NA	NA	9/28/2010	NA	Good
LCS	1009208-13A	NA	NA	NA	NA	9/27/2010	NA	Good
LCSD	1009208-13AA	NA	NA	NA	NA	9/27/2010	NA	Good
LCS	1009208-13B	NA	NA	NA	NA	9/27/2010	NA	Good
LCSD	1009208-13BB	NA	NA	NA	NA	9/27/2010	NA	Good

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		Sample Condition
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	
LCS	1009208-13C	NA	NA	NA	NA	9/28/2010	NA	Good
LCSD	1009208-13CC	NA	NA	NA	NA	9/28/2010	NA	Good
LCS	1009208-13D	NA	NA	NA	NA	9/28/2010	NA	Good
LCSD	1009208-13DD	NA	NA	NA	NA	9/28/2010	NA	Good

Sample Results and Raw Data



Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-3

Lab ID#: 1009208-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	2.4	1.6	4.4
Acetone	0.86	9.1	2.0	22
2-Butanone (Methyl Ethyl Ketone)	0.17	1.7	0.50	4.9

Client Sample ID: ALF-3

Lab ID#: 1009208-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092737	Date of Collection:	9/7/10 3:05:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/28/10 05:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.17	Not Detected	0.35	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.17	Not Detected	0.45	Not Detected
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	2.4	1.6	4.4
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.86	9.1	2.0	22
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	1.7	0.50	4.9
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected



Client Sample ID: ALF-3

Lab ID#: 1009208-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092737	Date of Collection:	9/7/10 3:05:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/28/10 05:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092737.d
Lab Smp Id: 1009208-01A
Inj Date : 28-SEP-2010 17:12
Operator : EA Inst ID: msda.i
Smp Info : 250ml #5614
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
Meth Date : 06-Oct-2010 11:22 ejakob Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 32
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: EXP014301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5								
15.253	15.255	(1.000)	130	351612	10.0000		80.00- 120.00	100.00
15.253	15.255	(1.000)	128	273661			48.35- 108.35	77.83
15.253	15.255	(1.000)	49	397968			89.31- 149.31	113.18

* 66 1,4-Difluorobenzene CAS #: 540-36-3								
16.645	16.647	(1.000)	114	1422743	10.0000		80.00- 120.00	100.00
16.645	16.647	(1.000)	88	226333			0.00- 46.24	15.91

* 88 Chlorobenzene-d5 CAS #: 3114-55-4								
21.454	21.456	(1.000)	117	1339433	10.0000		80.00- 120.00	100.00
21.454	21.456	(1.000)	82	745352			25.95- 85.95	55.65

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.096	16.098	(1.055)	65	446611	8.73873	8.739	80.00- 120.00	100.00
16.096	16.098	(1.055)	67	239966			0.00- 30.00	53.73

\$ 80 Toluene-d8 CAS #: 2037-26-5								
19.232	19.234	(1.155)	98	1373549	9.47887	9.479	80.00- 120.00	100.00
19.209	19.234	(1.154)	70	148991			0.00- 30.00	10.85

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.232	19.234	(1.155)	100	930062			37.02-	97.02	67.71

\$ 100 Bromofluorobenzene									
									CAS #: 460-00-4
22.932	22.934	(1.069)	174	701625	10.2520	10.252	80.00-	120.00	100.00
22.932	22.934	(1.069)	95	889128			99.22-	159.22	126.72
22.932	22.934	(1.069)	176	677270			66.37-	126.37	96.53

16 Trichlorofluoromethane/Fr11									
									CAS #: 75-69-4
10.742	10.724	(0.704)	101	15208	0.11577	0.1980	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	11087			35.22-	95.22	72.90

20 Ethanol									
									CAS #: 64-17-5
11.551	11.553	(0.757)	45	21734	1.37963	2.359	80.00-	120.00	100.00
11.551	11.553	(0.757)	43	4535			0.00-	30.00	20.87
11.551	11.553	(0.757)	46	7803			0.00-	30.00	35.90

24 Acetone									
									CAS #: 67-64-1
12.256	12.279	(0.803)	58	111482	5.33567	9.124	80.00-	120.00	100.00
12.256	12.279	(0.803)	43	314827			0.00-	30.00	282.40

48 2-Butanone									
									CAS #: 78-93-3
14.912	14.915	(0.978)	72	28003	0.97145	1.661	80.00-	120.00	100.00
14.912	14.915	(0.978)	43	110956			0.00-	30.00	396.23
14.912	14.915	(0.978)	57	7991			0.00-	30.00	28.54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092737.d
 Lab Smp Id: 1009208-01A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: EA
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
 Misc Info: 6.5"Hg-5psi

Calibration Date: 27-SEP-2010
 Calibration Time: 19:59
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	351612	-0.79
66 1,4-Difluorobenze	1467275	880365	2054185	1422743	-3.04
88 Chlorobenzene-d5	1353012	811807	1894217	1339433	-1.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010a
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-01A
Level: LOW Operator: EA
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: 6.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.739	87.39	70-130
\$ 80 Toluene-d8	10.000	9.479	94.79	70-130
\$ 100 Bromofluorobenzene	10.000	10.252	102.52	70-130

Date : 28-SEP-2010 17:12

Client ID:

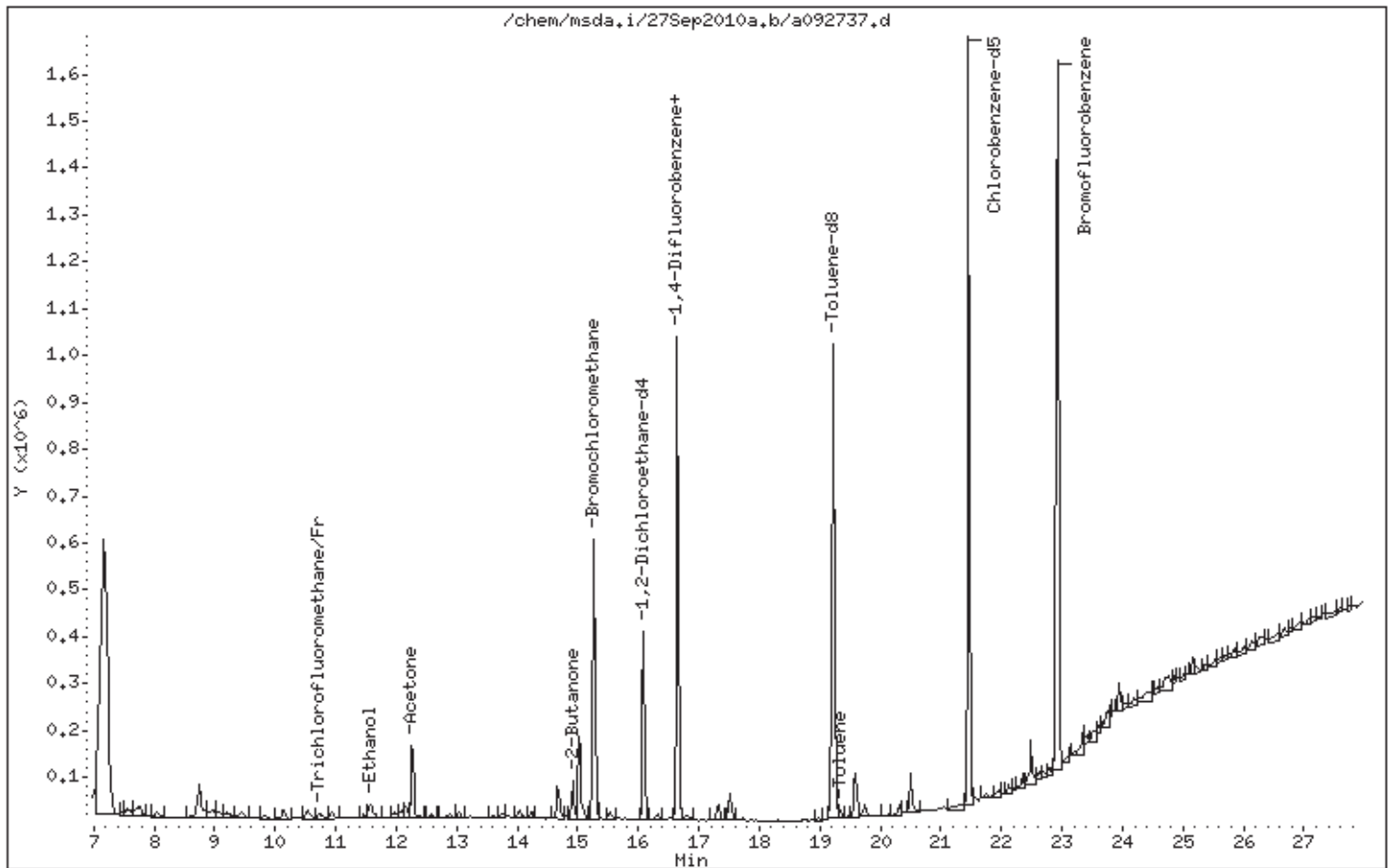
Instrument: msda.i

Sample Info: 250ml #5614

Operator: EA

Column phase: RTX-624

Column diameter: 0.32



Date : 28-SEP-2010 17:12

Client ID:

Instrument: msda,i

Sample Info: 250ml #5614

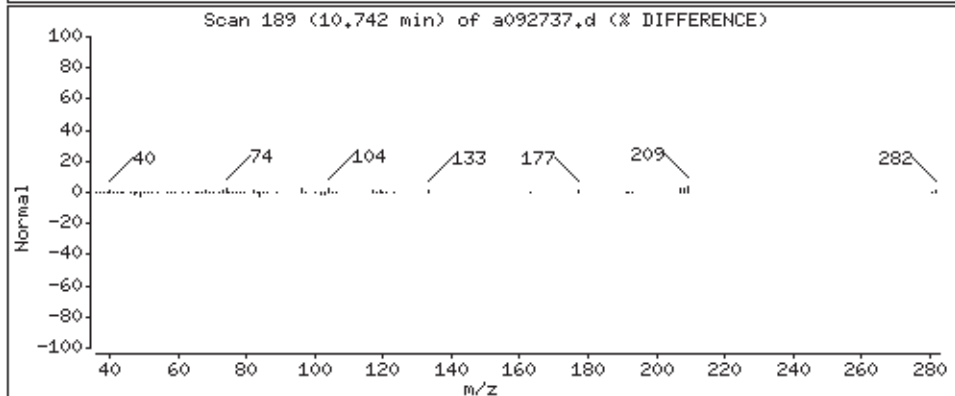
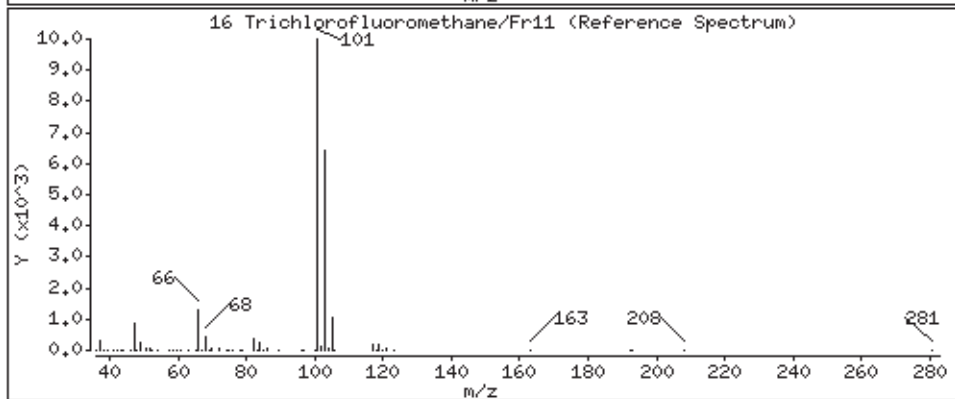
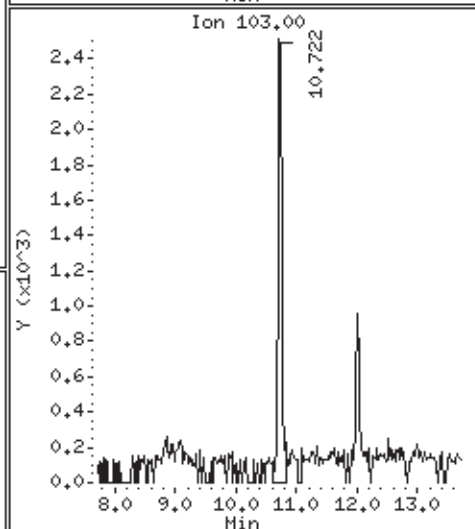
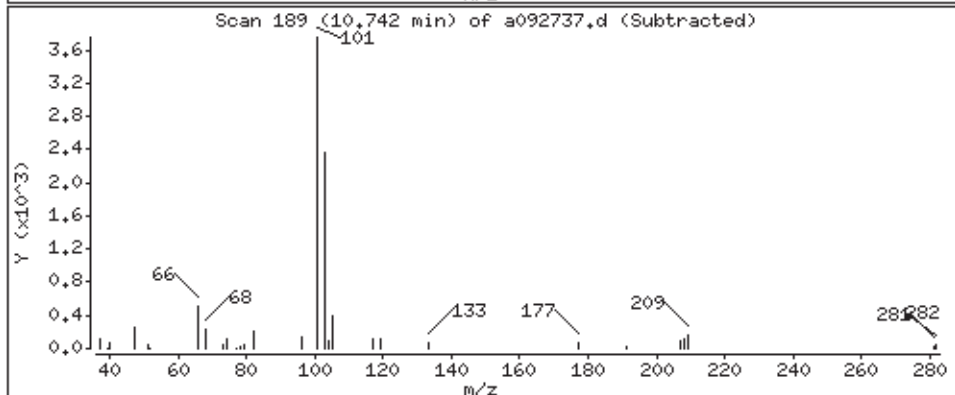
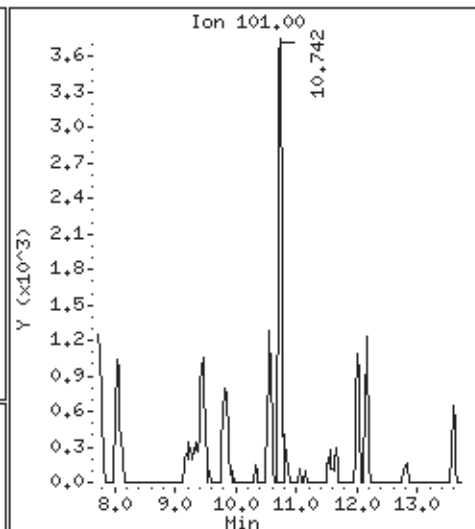
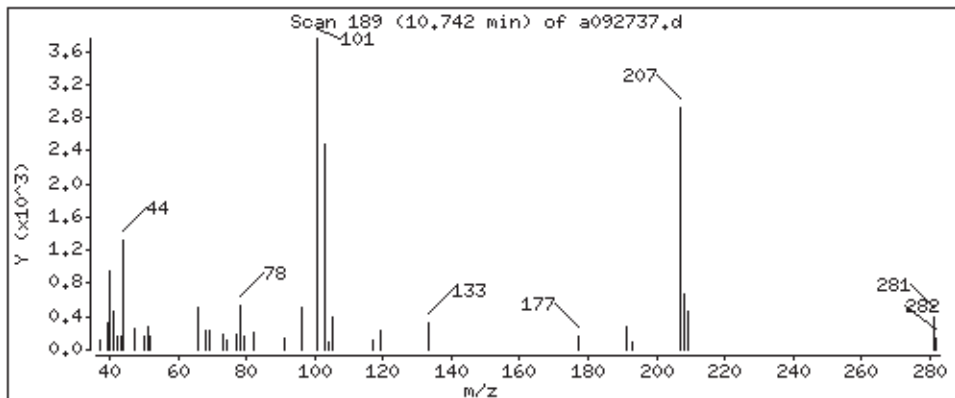
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.1980 PPBV



Date : 28-SEP-2010 17:12

Client ID:

Instrument: msda,i

Sample Info: 250ml #5614

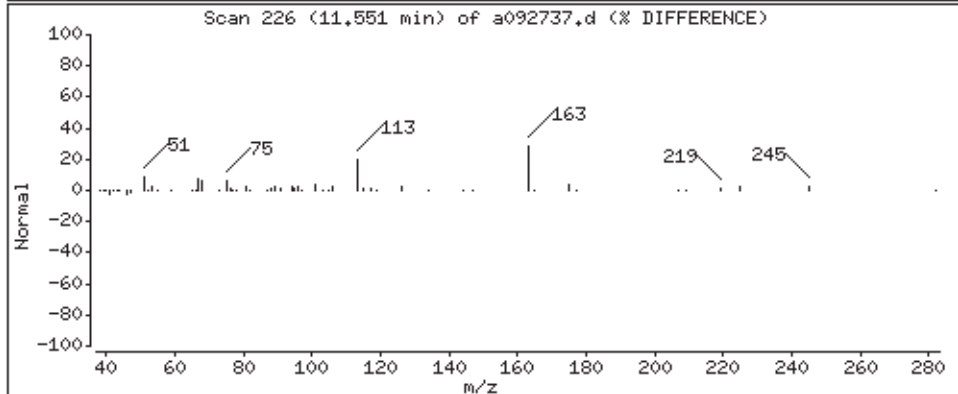
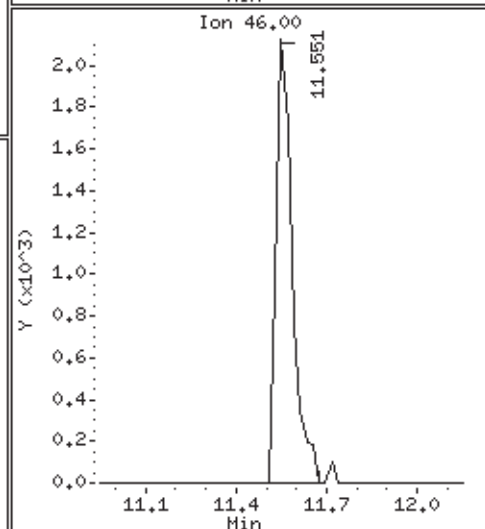
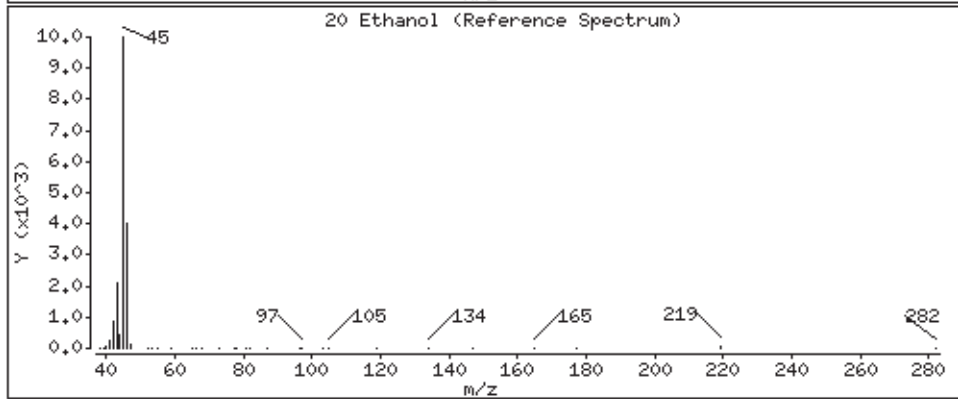
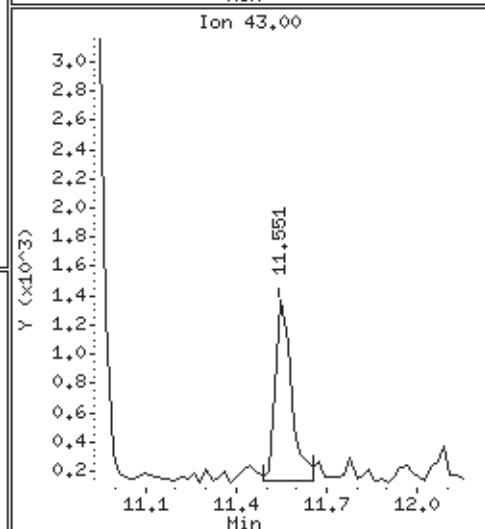
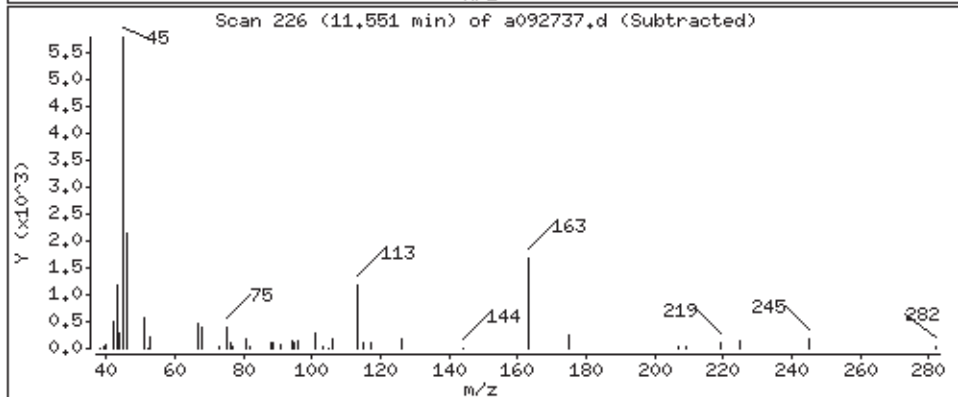
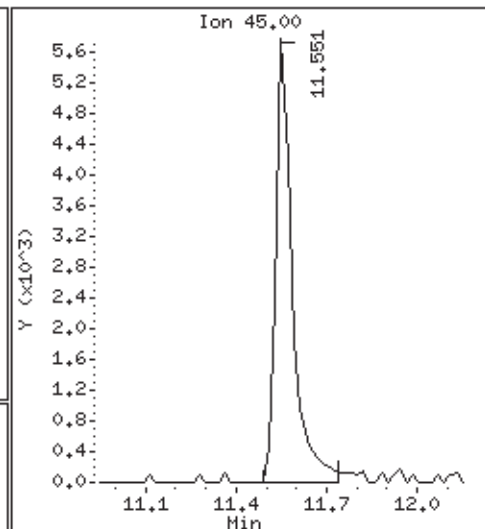
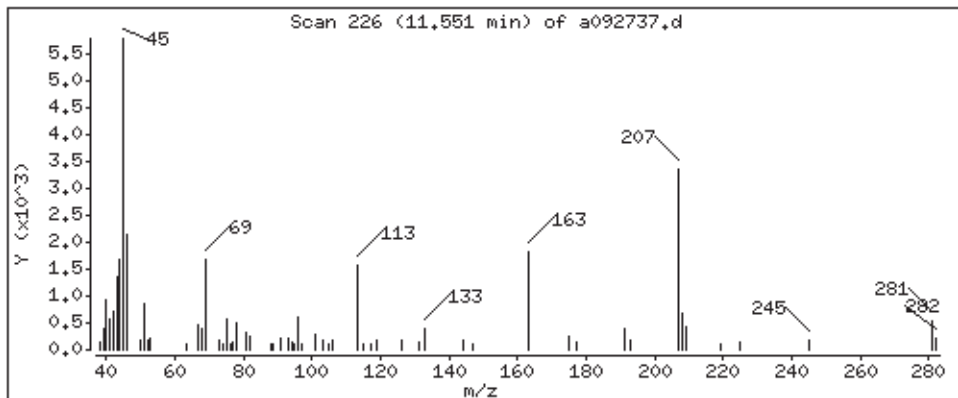
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 2,359 PPBV



Date : 28-SEP-2010 17:12

Client ID:

Instrument: msda,i

Sample Info: 250ml #5614

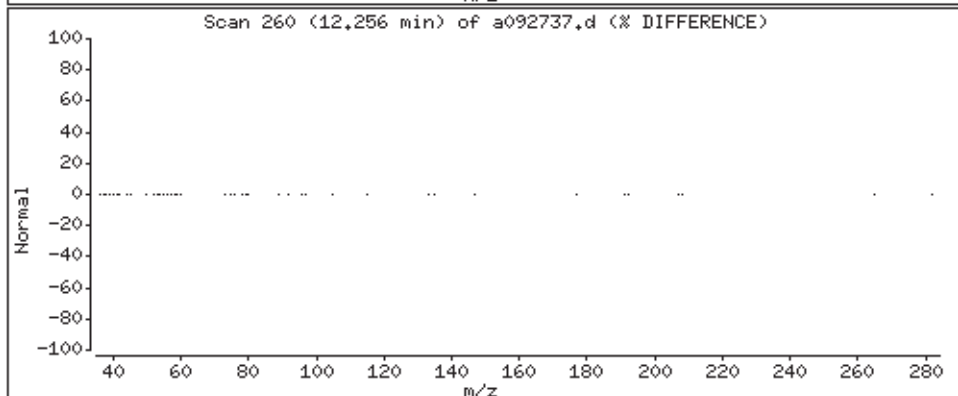
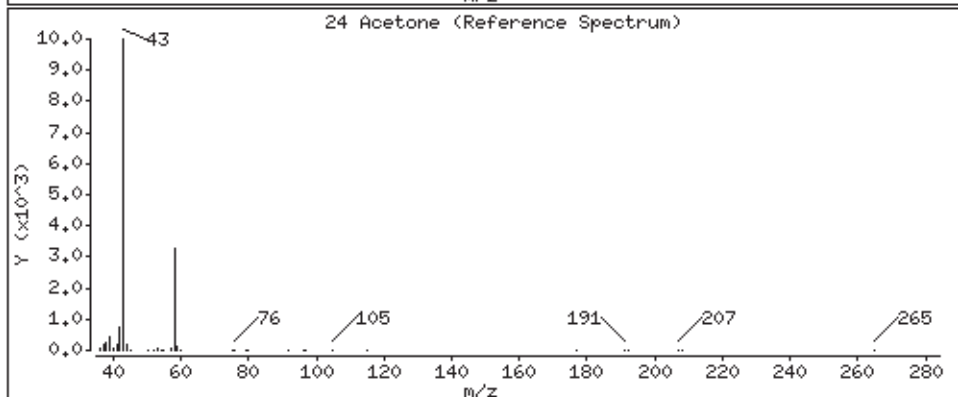
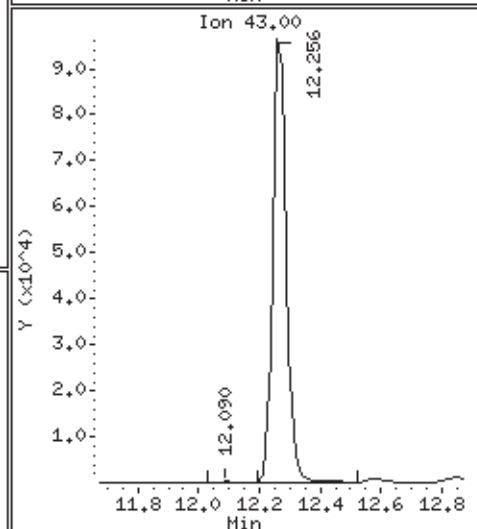
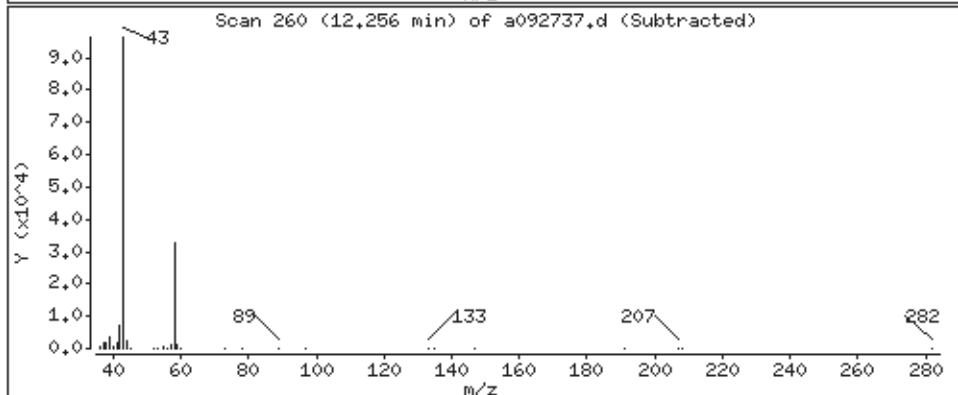
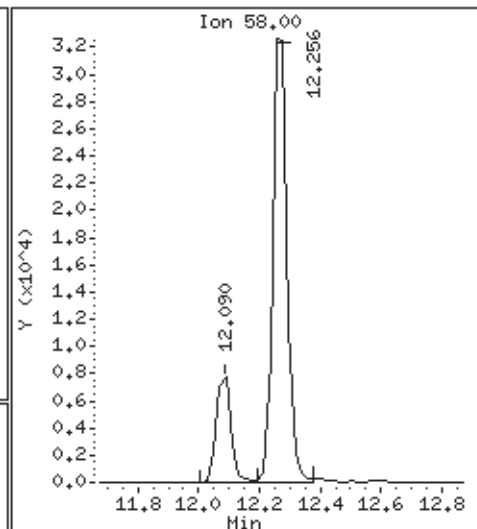
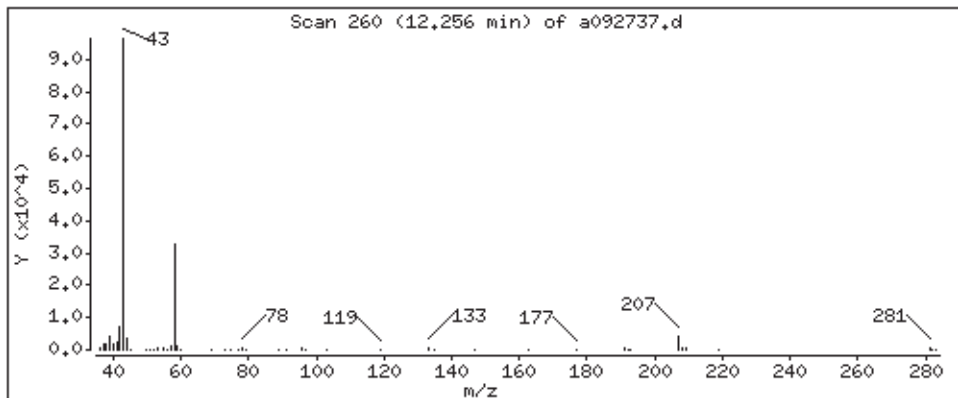
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 9.124 PPBV



Date : 28-SEP-2010 17:12

Client ID:

Instrument: msda,i

Sample Info: 250ml #5614

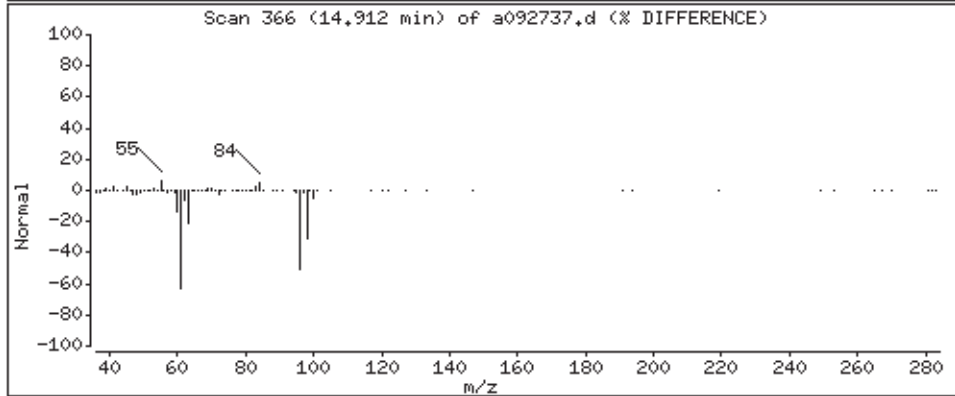
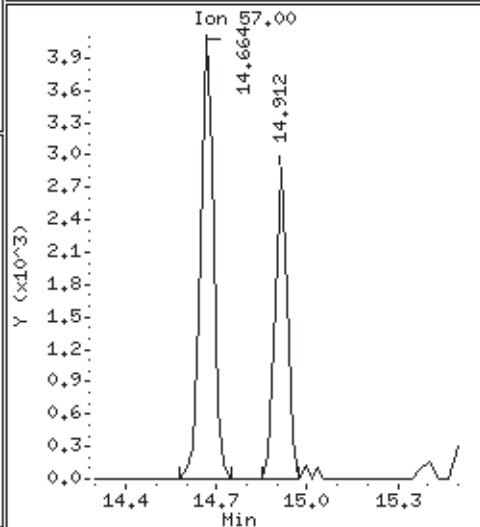
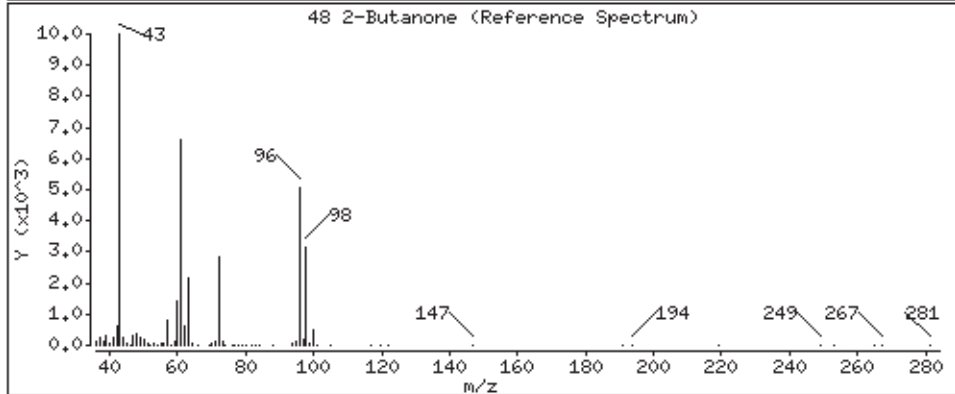
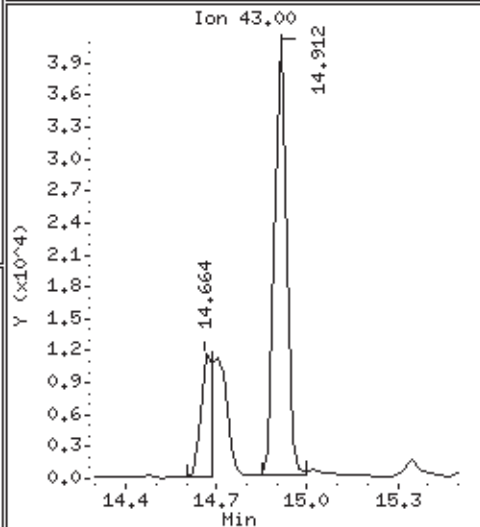
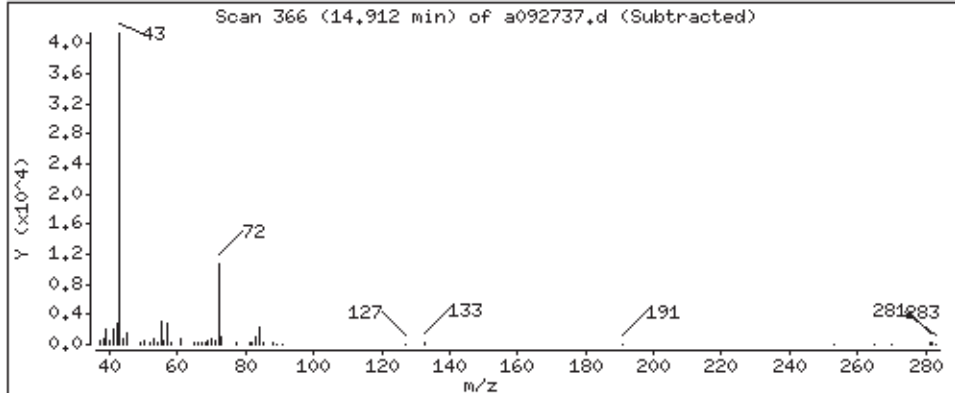
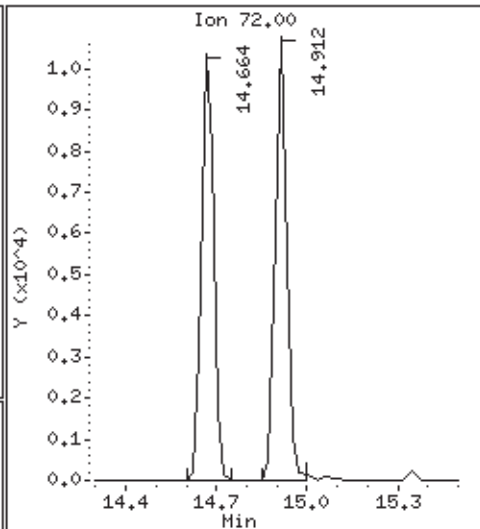
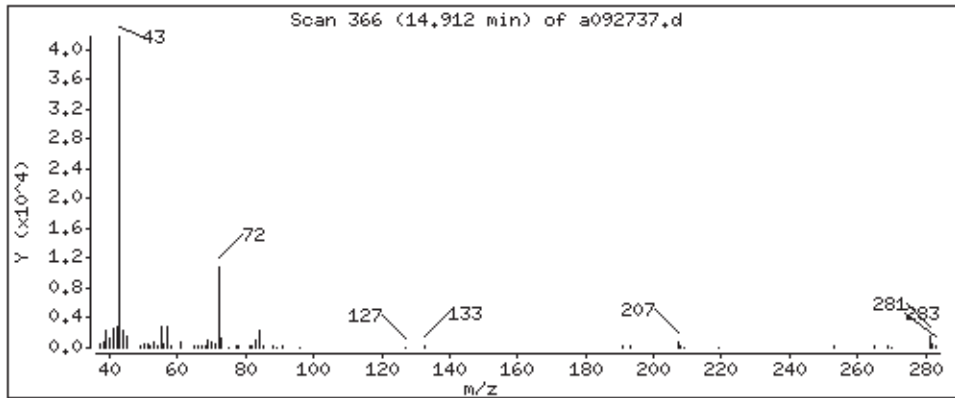
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 1,661 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-3

Lab ID#: 1009208-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.11	0.044	0.29
Toluene	0.034	0.19	0.13	0.71

Client Sample ID: ALF-3

Lab ID#: 1009208-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092737sim	Date of Collection: 9/7/10 3:05:00 PM
Dil. Factor:	1.71	Date of Analysis: 9/28/10 05:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.11	0.044	0.29
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Benzene	0.086	Not Detected	0.27	Not Detected
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.19	0.13	0.71
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
Ethyl Benzene	0.034	Not Detected	0.15	Not Detected
m,p-Xylene	0.068	Not Detected	0.30	Not Detected
o-Xylene	0.034	Not Detected	0.15	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092737sim.d
Lab Smp Id: 1009208-01B
Inj Date : 28-SEP-2010 17:12
Operator : EA Inst ID: msda.i
Smp Info : 250ml #5614
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 10:31 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: EXP014301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====

* 31	Bromochloromethane			CAS #: 74-97-5					
15.267	15.269	(1.000)	130	359357	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	278287				0.00- 30.00	77.44
15.267	15.269	(1.000)	49	423921				0.00- 30.00	117.97

\$ 37	1,2-Dichloroethane-d4			CAS #: 17060-07-0					
16.082	16.084	(1.053)	65	472776	8.88849	8.888		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	256544				0.00- 30.00	54.26

* 40	1,4-Difluorobenzene			CAS #: 540-36-3					
16.659	16.661	(1.000)	114	1485250	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	238320				0.00- 46.02	16.05

\$ 47	Toluene-d8			CAS #: 2037-26-5					
19.223	19.225	(1.154)	98	1322508	9.98970	9.990		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	152616				0.00- 41.54	11.54
19.223	19.225	(1.154)	100	879781				36.40- 96.40	66.52

* 56	Chlorobenzene-d5			CAS #: 3114-55-4					
21.467	21.470	(1.000)	117	1391419	10.0000			80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 56 Chlorobenzene-d5 (continued)									
21.467	21.470	(1.000)	82	748826			0.00-	30.00	53.82

\$ 66 Bromofluorobenzene					CAS #: 460-00-4				
22.919	22.922	(1.068)	174	725536	10.3457	10.346	80.00-	120.00	100.00
22.919	22.922	(1.068)	95	941309			99.33-	159.33	129.74
22.919	22.922	(1.068)	176	703531			66.67-	126.67	96.97

5 Vinyl Chloride					CAS #: 75-01-4				
7.947	7.897	(0.520)	62	3663	0.06593	0.1127	80.00-	120.00	100.00
7.947	7.897	(0.520)	64	349			1.91-	61.91	9.55

48 Toluene					CAS #: 108-88-3				
19.335	19.337	(1.161)	91	22759	0.10968	0.1876	80.00-	120.00	100.00
19.335	19.337	(1.161)	92	13507			29.94-	89.94	59.35

Air Toxics Ltd.

RECOVERY REPORT

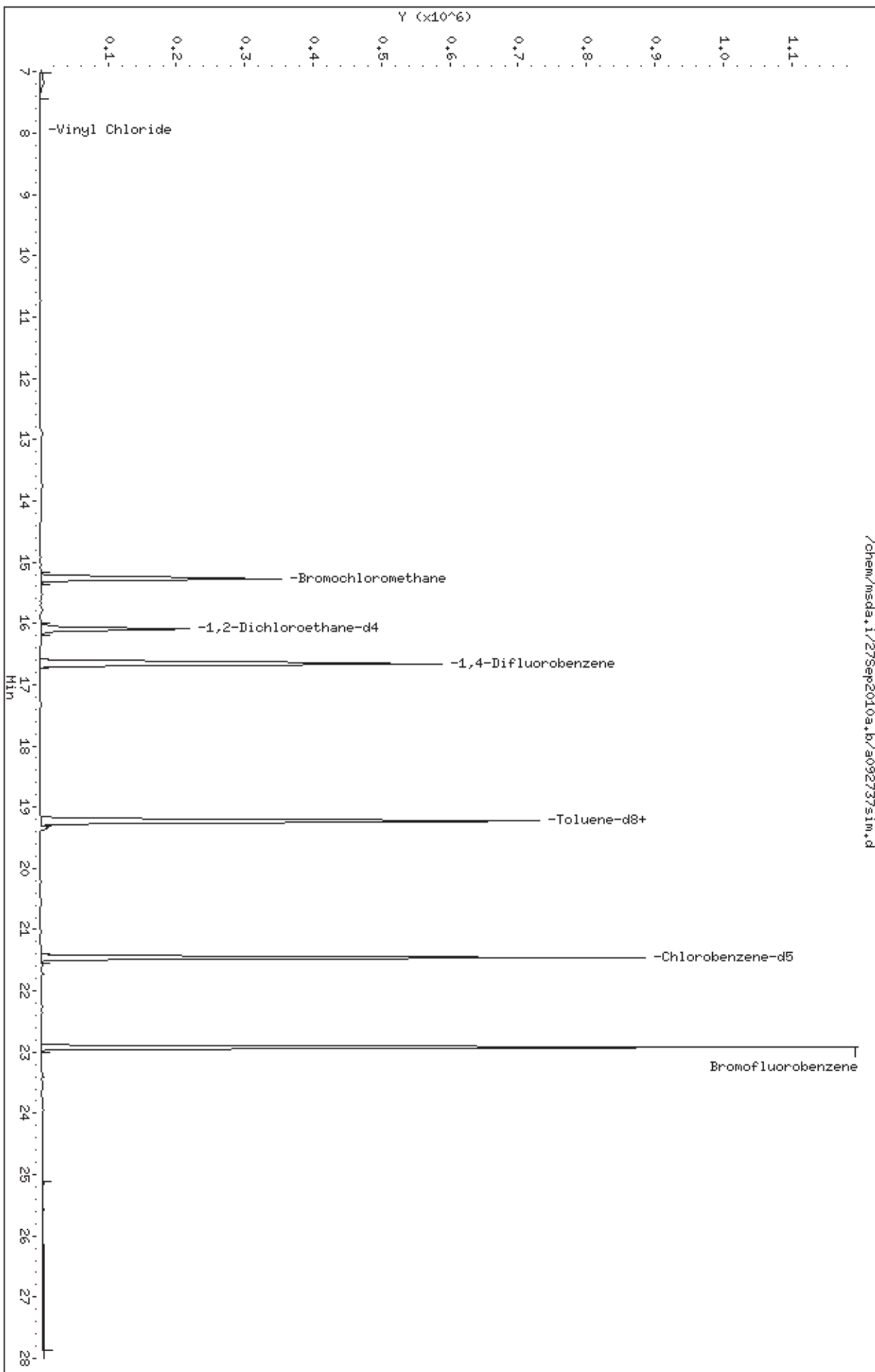
Client Name: Client SDG: 27Sep2010a
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-01B
Level: LOW Operator: EA
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Misc Info: 6.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.888	88.88	70-130
\$ 47 Toluene-d8	10.000	9.990	99.90	70-130
\$ 66 Bromofluorobenzene	10.000	10.346	103.46	70-130

Data File: /chem/msda.i/27Sep2010a.k/a092737s.im.d
Date: 28-SEP-2010 17:12
Client ID:
Sample Info: 250ml #5614

Column phase: RTX-624

Instrument: msda.i
Operator: EA
Column diameter: 0.53



Date : 28-SEP-2010 17:12

Client ID:

Instrument: msda.i

Sample Info: 250ml #5614

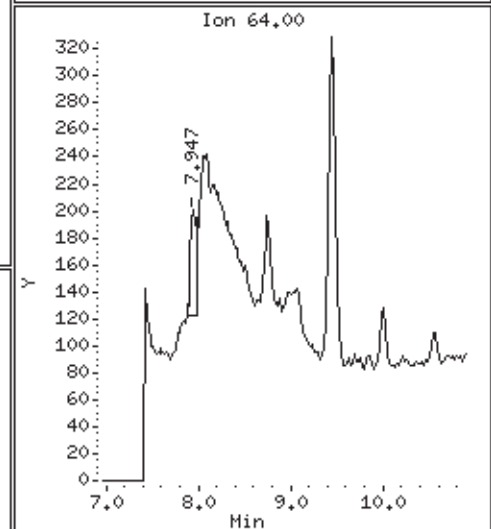
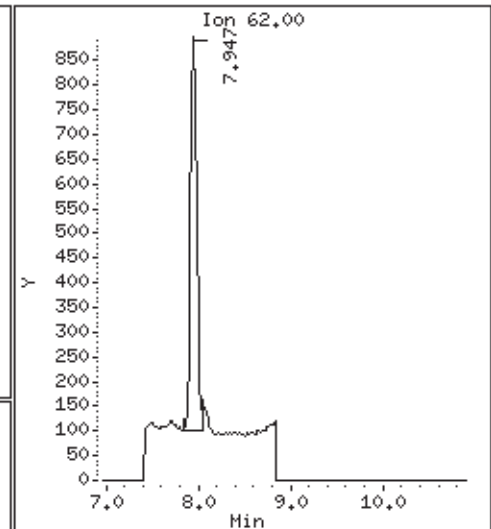
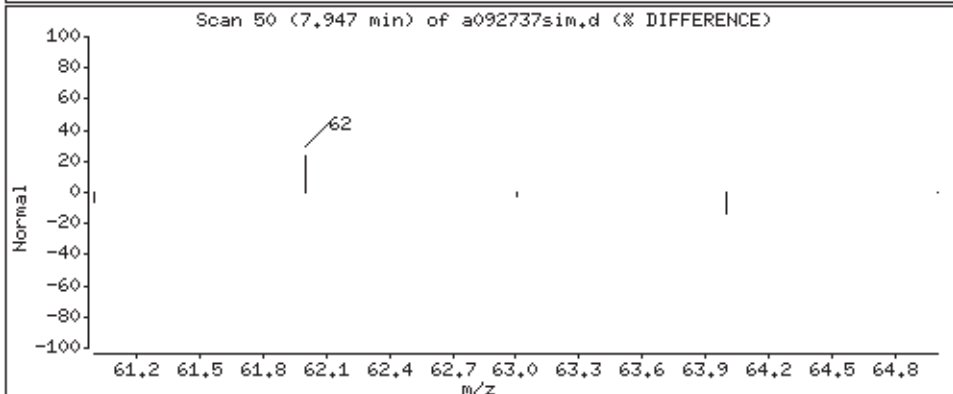
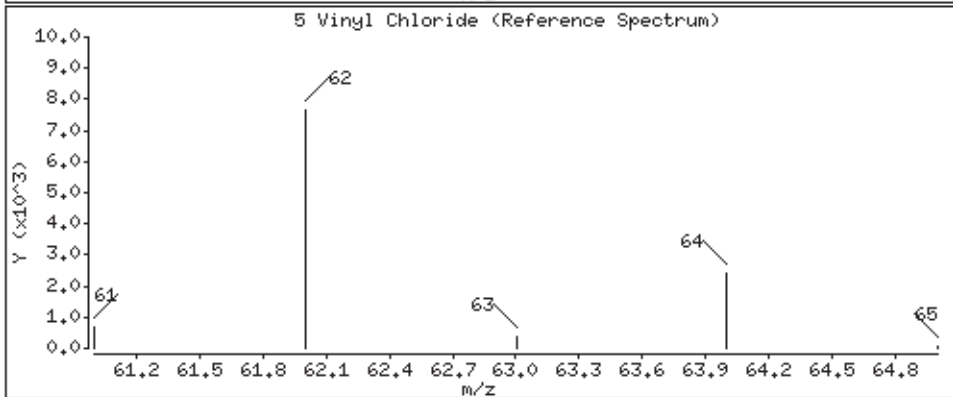
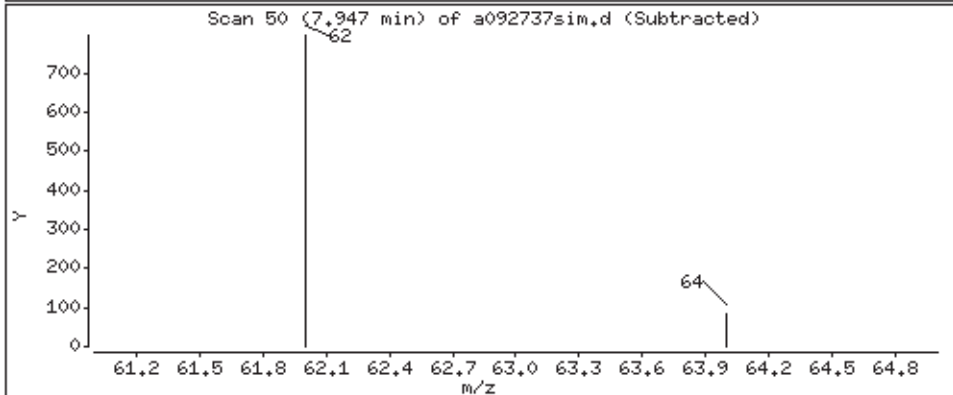
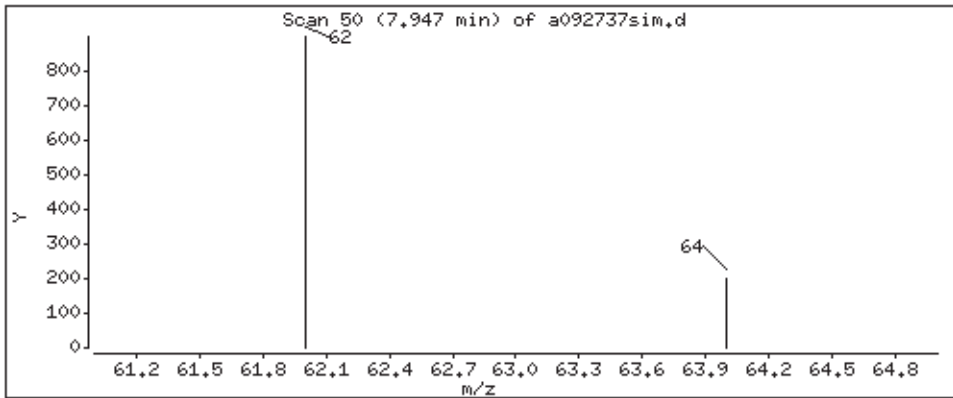
Operator: EA

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.1127 PPBV



Date : 28-SEP-2010 17:12

Client ID:

Instrument: msda,i

Sample Info: 250ml #5614

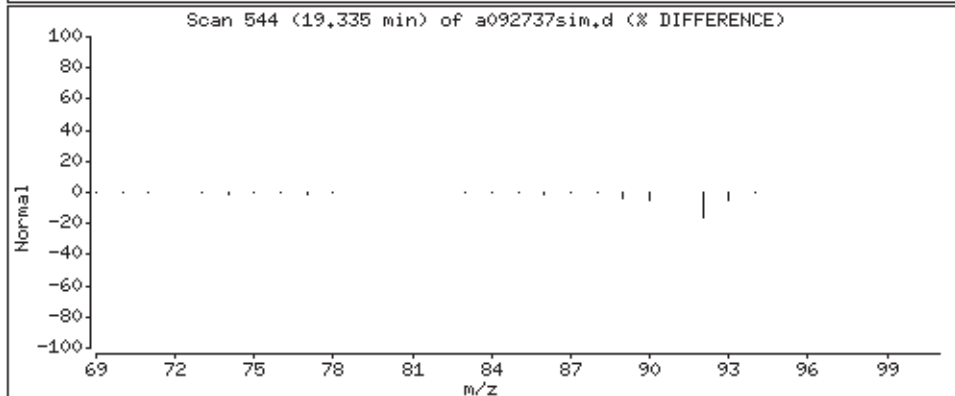
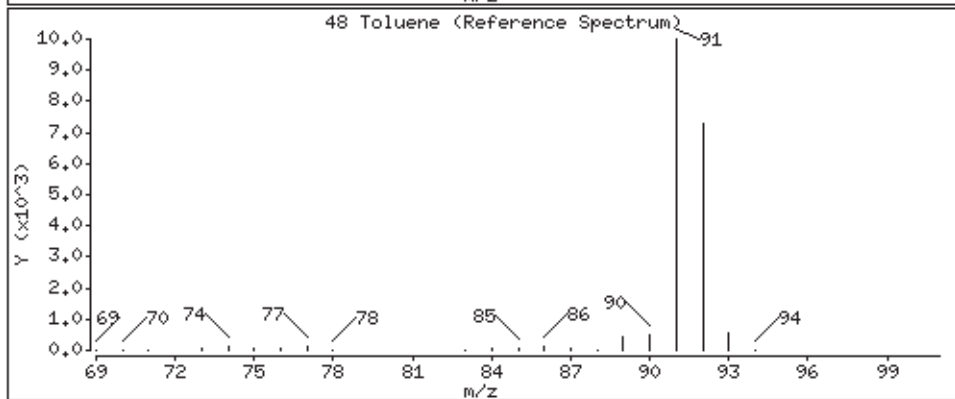
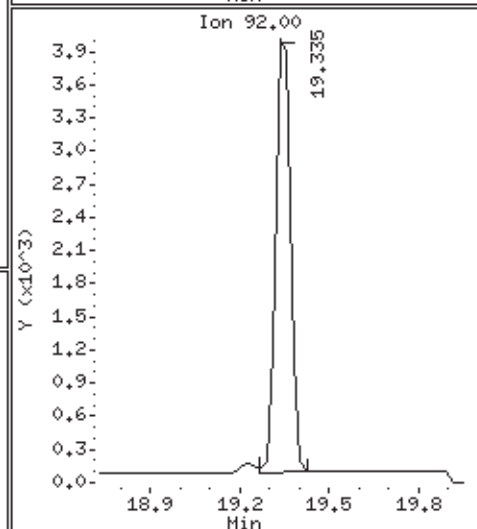
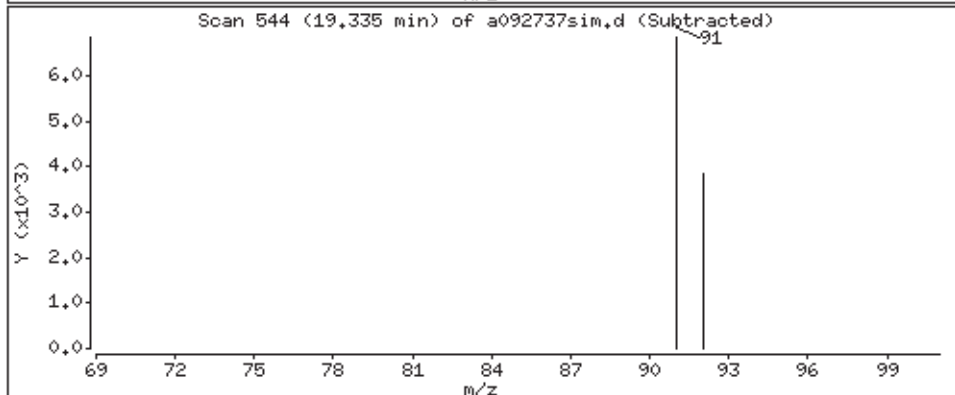
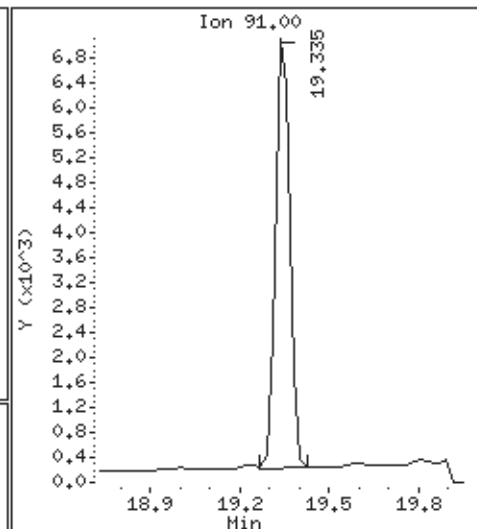
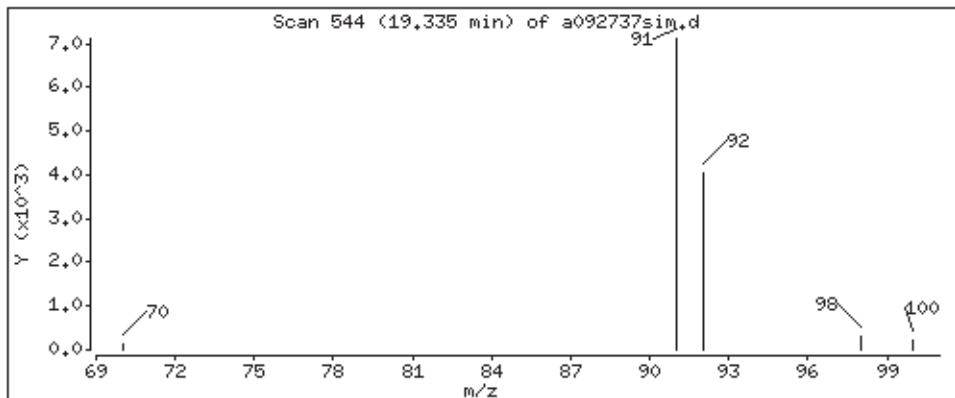
Operator: EA

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.1876 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-2

Lab ID#: 1009208-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.18	0.21	1.0	1.2
Ethanol	0.90	1.1	1.7	2.1
Acetone	0.90	8.2	2.1	19
2-Butanone (Methyl Ethyl Ketone)	0.18	1.1	0.53	3.2

Client Sample ID: ALF-2

Lab ID#: 1009208-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092738	Date of Collection:	9/7/10 3:08:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/28/10 06:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.18	Not Detected	0.37	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.18	Not Detected	0.70	Not Detected
Chloroethane	0.18	Not Detected	0.47	Not Detected
Freon 11	0.18	0.21	1.0	1.2
Ethanol	0.90	1.1	1.7	2.1
Freon 113	0.18	Not Detected	1.4	Not Detected
Acetone	0.90	8.2	2.1	19
2-Propanol	0.90	Not Detected	2.2	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Hexane	0.18	Not Detected	0.63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.18	1.1	0.53	3.2
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.87	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Heptane	0.18	Not Detected	0.73	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected

Client Sample ID: ALF-2

Lab ID#: 1009208-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092738	Date of Collection:	9/7/10 3:08:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/28/10 06:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.90	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092738.d
Lab Smp Id: 1009208-02A
Inj Date : 28-SEP-2010 18:09
Operator : EA Inst ID: msda.i
Smp Info : 250ml #34026
Misc Info : 7.5"Hg-5psi
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
Meth Date : 06-Oct-2010 11:22 ejakob Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 32
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: EXP014301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5								
15.253	15.255	(1.000)	130	346437	10.0000		80.00- 120.00	100.00
15.253	15.255	(1.000)	128	267830			48.35- 108.35	77.31
15.253	15.255	(1.000)	49	392964			89.31- 149.31	113.43

* 66 1,4-Difluorobenzene CAS #: 540-36-3								
16.645	16.647	(1.000)	114	1414945	10.0000		80.00- 120.00	100.00
16.645	16.647	(1.000)	88	227804			0.00- 46.24	16.10

* 88 Chlorobenzene-d5 CAS #: 3114-55-4								
21.454	21.456	(1.000)	117	1346307	10.0000		80.00- 120.00	100.00
21.454	21.456	(1.000)	82	746861			25.95- 85.95	55.47

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.096	16.098	(1.055)	65	448097	8.89878	8.899	80.00- 120.00	100.00
16.096	16.098	(1.055)	67	234993			0.00- 30.00	52.44

\$ 80 Toluene-d8 CAS #: 2037-26-5								
19.232	19.234	(1.155)	98	1382036	9.59000	9.590	80.00- 120.00	100.00
19.209	19.234	(1.154)	70	154675			0.00- 30.00	11.19

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.232	19.234	(1.155)	100	925928			37.02-	97.02	67.00

\$ 100 Bromofluorobenzene									
									CAS #: 460-00-4
22.932	22.934	(1.069)	174	703757	10.2307	10.231	80.00-	120.00	100.00
22.932	22.934	(1.069)	95	900777			99.22-	159.22	128.00
22.932	22.934	(1.069)	176	686753			66.37-	126.37	97.58

16 Trichlorofluoromethane/Fr11									
									CAS #: 75-69-4
10.722	10.724	(0.703)	101	15107	0.11672	0.2089	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	10201			35.22-	95.22	67.52

20 Ethanol									
									CAS #: 64-17-5
11.551	11.553	(0.757)	45	9730	0.62687	1.122	80.00-	120.00	100.00
11.551	11.553	(0.757)	43	2172			0.00-	30.00	22.32
11.551	11.553	(0.757)	46	3333			0.00-	30.00	34.25

24 Acetone									
									CAS #: 67-64-1
12.276	12.279	(0.805)	58	94272	4.57938	8.197	80.00-	120.00	100.00
12.256	12.279	(0.803)	43	264088			0.00-	30.00	280.13

48 2-Butanone									
									CAS #: 78-93-3
14.912	14.915	(0.978)	72	17377	0.61183	1.095	80.00-	120.00	100.00
14.912	14.915	(0.978)	43	63130			0.00-	30.00	363.30
14.912	14.915	(0.978)	57	5285			0.00-	30.00	30.41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092738.d
 Lab Smp Id: 1009208-02A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: EA
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
 Misc Info: 7.5"Hg-5psi

Calibration Date: 27-SEP-2010
 Calibration Time: 19:59
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	346437	-2.25
66 1,4-Difluorobenze	1467275	880365	2054185	1414945	-3.57
88 Chlorobenzene-d5	1353012	811807	1894217	1346307	-0.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010a
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-02A
Level: LOW Operator: EA
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: 7.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.899	88.99	70-130
\$ 80 Toluene-d8	10.000	9.590	95.90	70-130
\$ 100 Bromofluorobenzene	10.000	10.231	102.31	70-130

Date : 28-SEP-2010 18:09

Client ID:

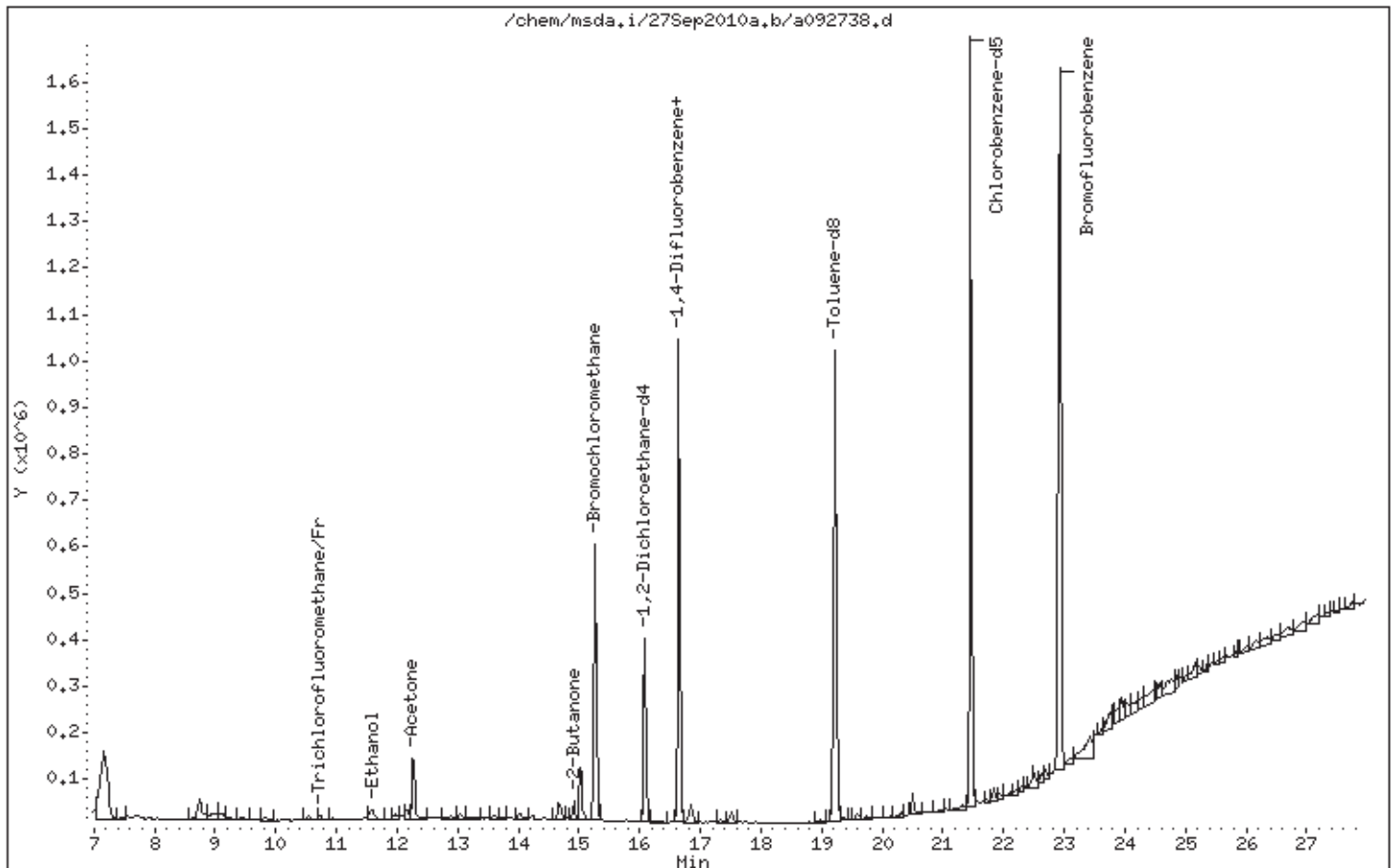
Instrument: msda.i

Sample Info: 250ml #34026

Operator: EA

Column phase: RTX-624

Column diameter: 0.32



Date : 28-SEP-2010 18:09

Client ID:

Instrument: msda,i

Sample Info: 250ml #34026

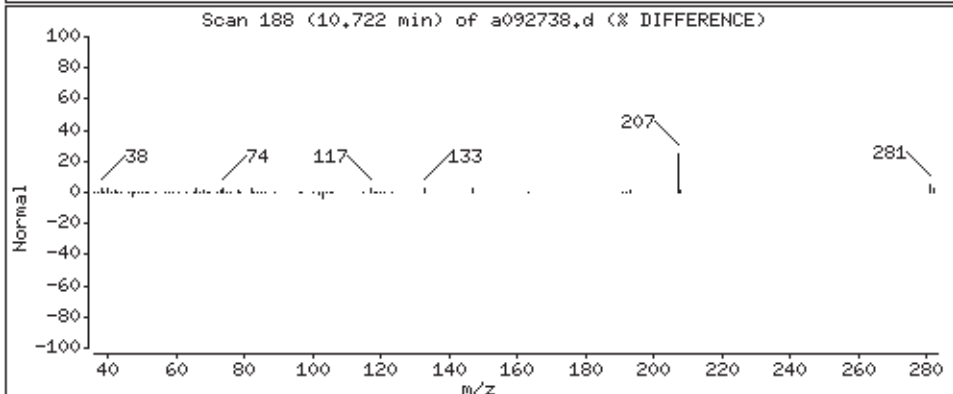
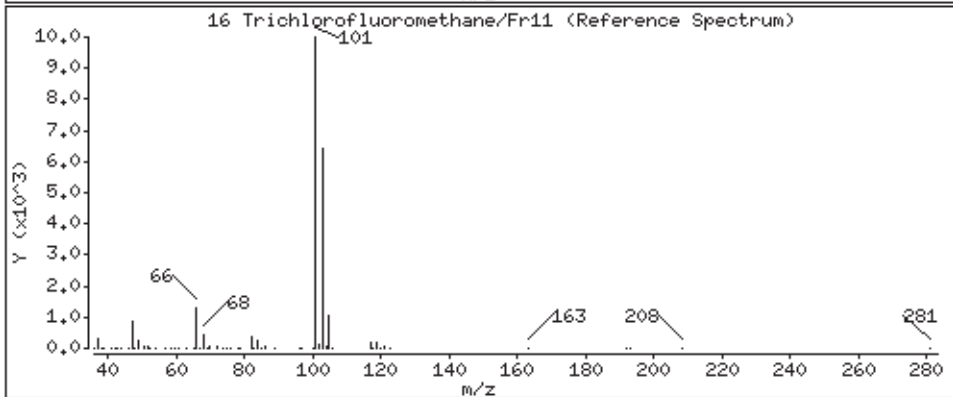
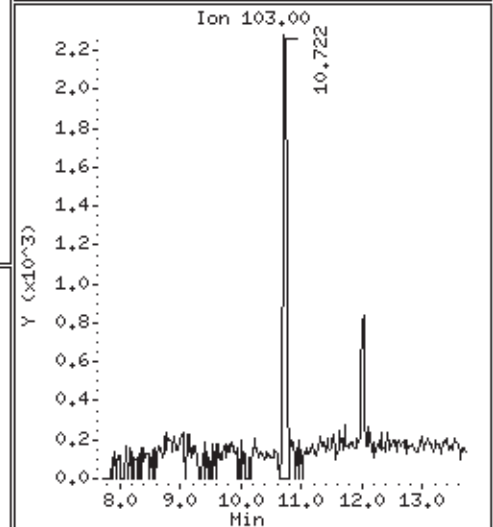
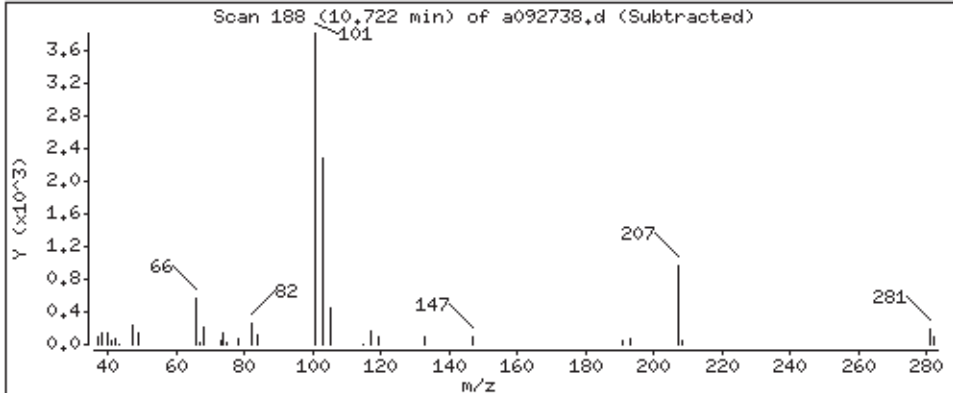
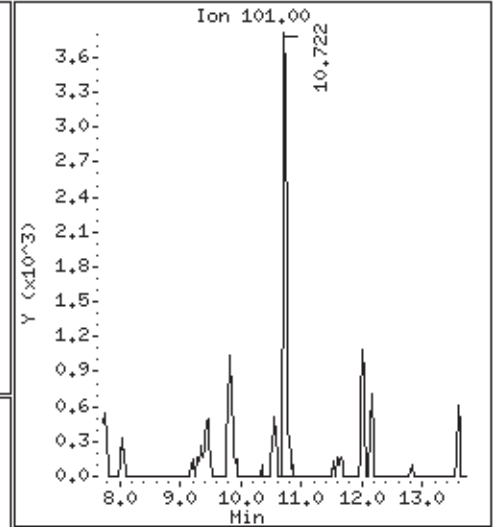
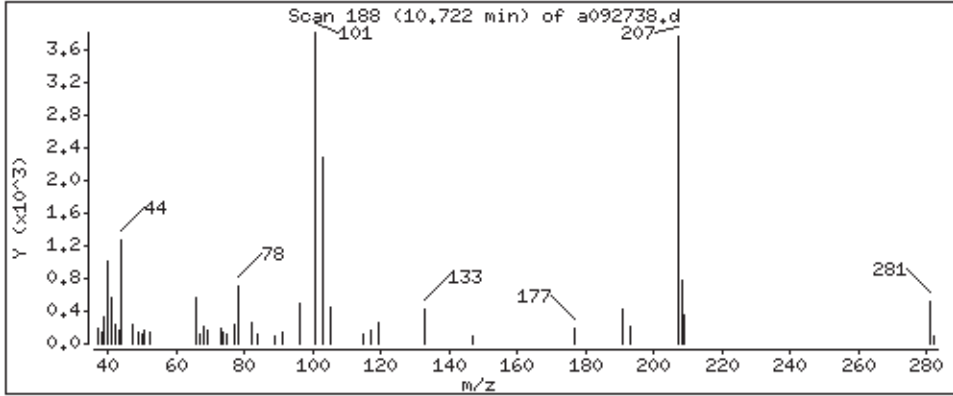
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.2089 PPBV



Date : 28-SEP-2010 18:09

Client ID:

Instrument: msda.i

Sample Info: 250ml #34026

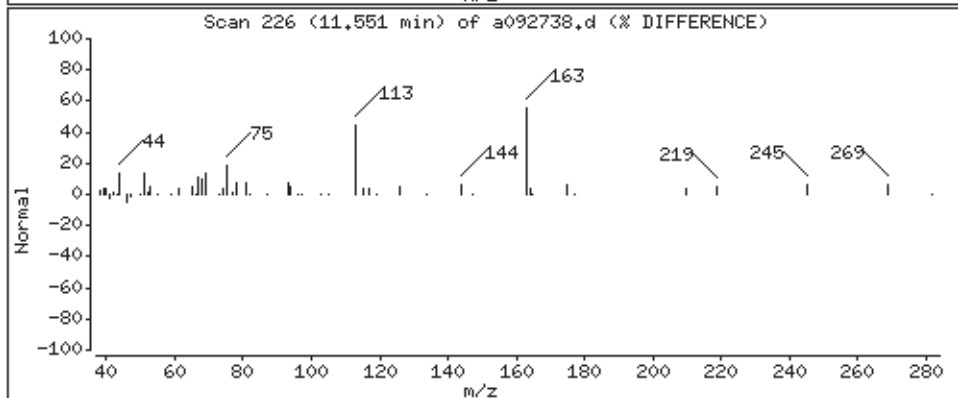
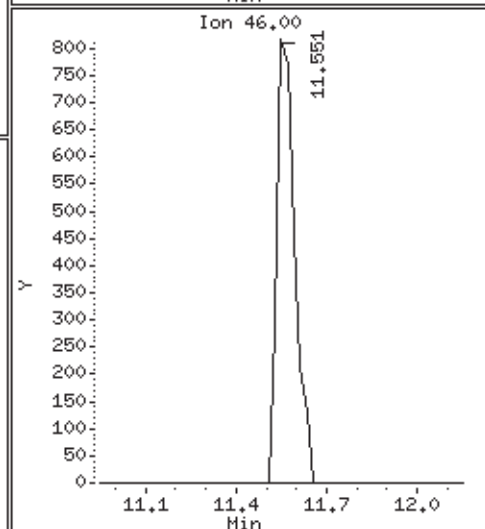
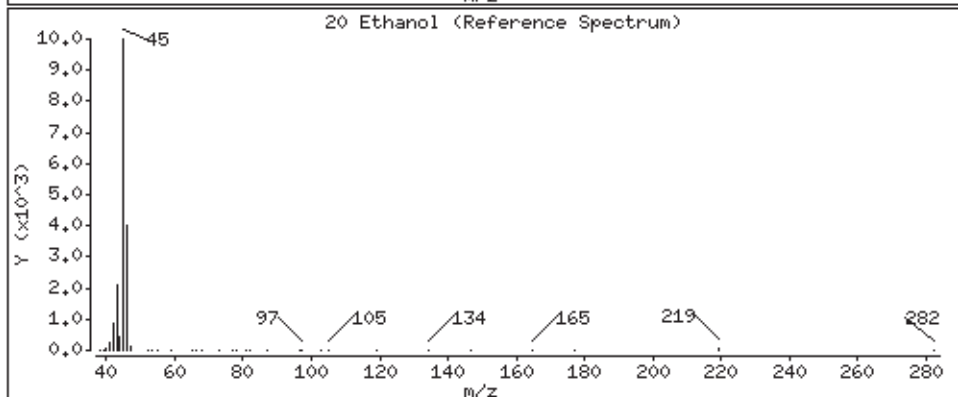
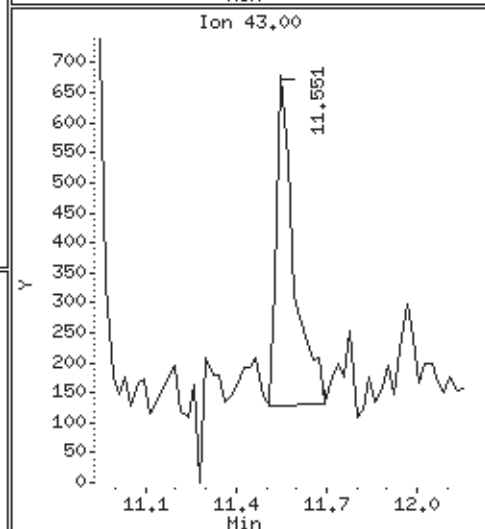
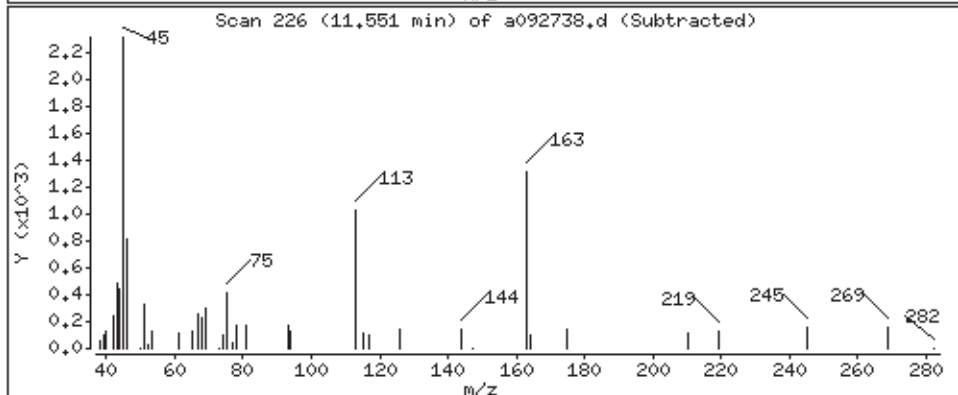
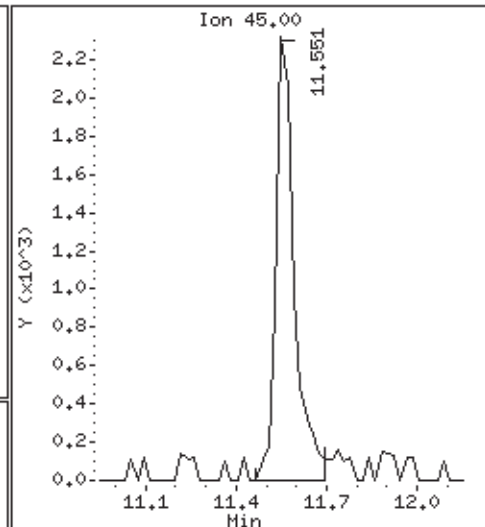
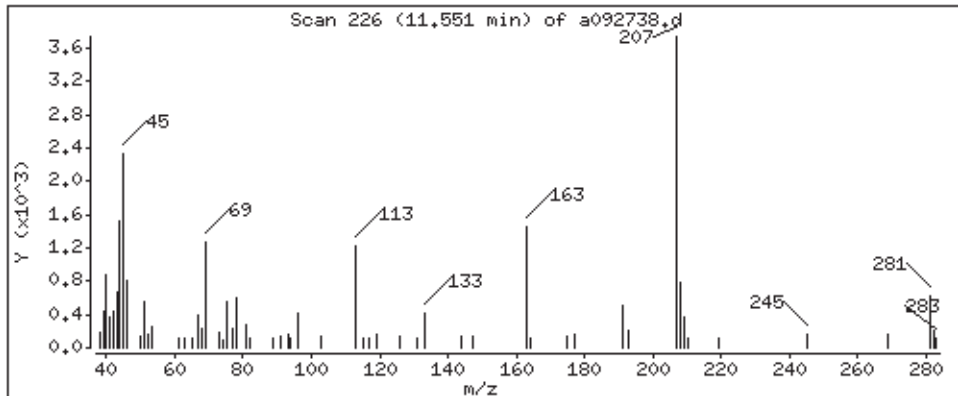
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 1,122 PPBV



Date : 28-SEP-2010 18:09

Client ID:

Instrument: msda,i

Sample Info: 250ml #34026

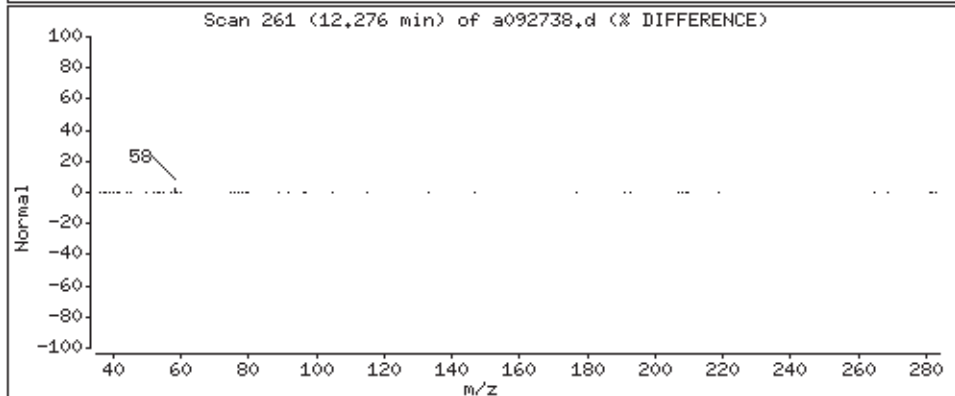
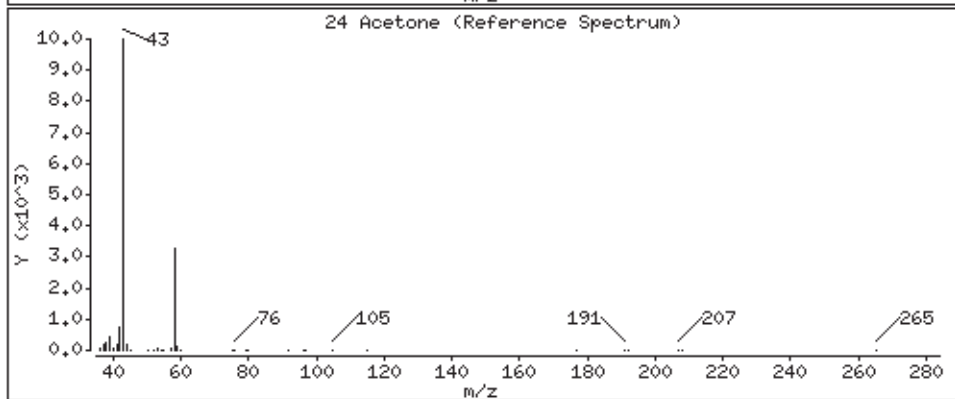
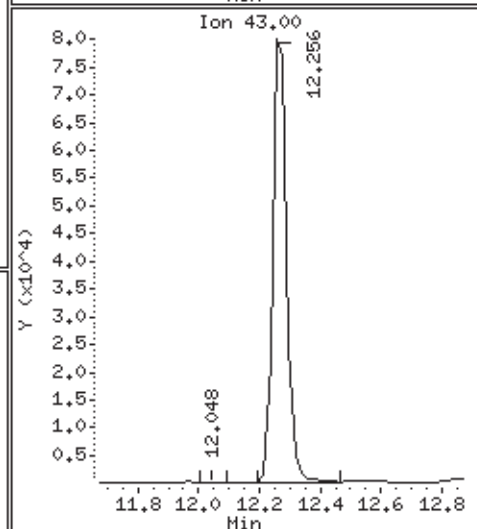
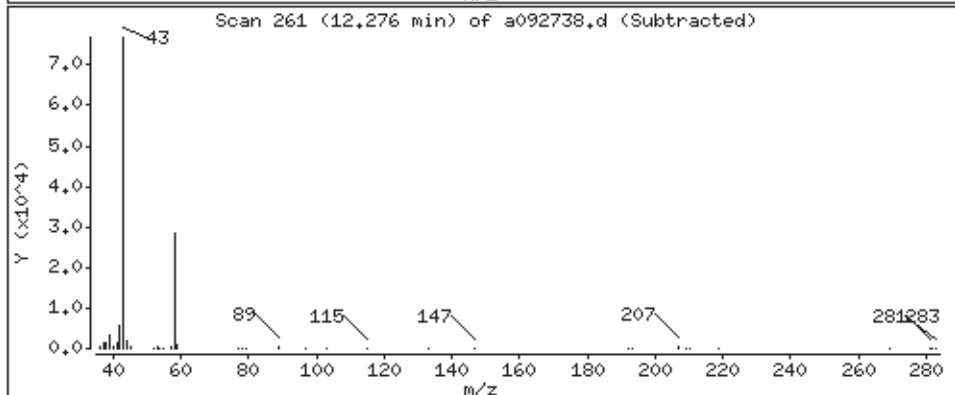
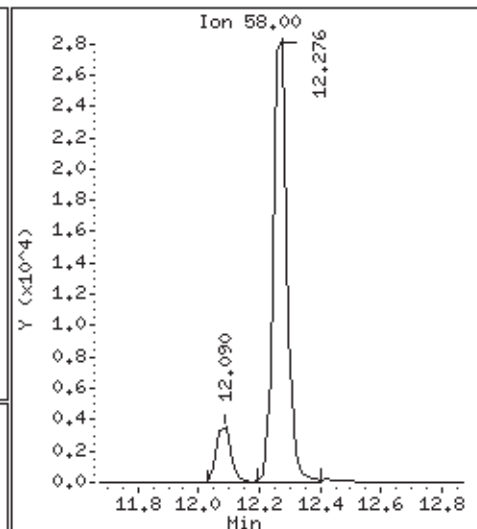
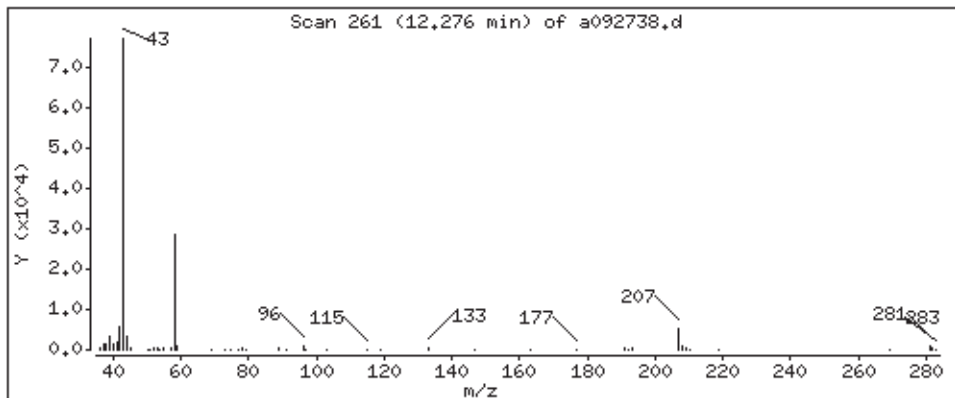
Operator: EA

Column phase: RTx-624

Column diameter: 0.32

24 Acetone

Concentration: 8,197 PPBV



Date : 28-SEP-2010 18:09

Client ID:

Instrument: msda,i

Sample Info: 250ml #34026

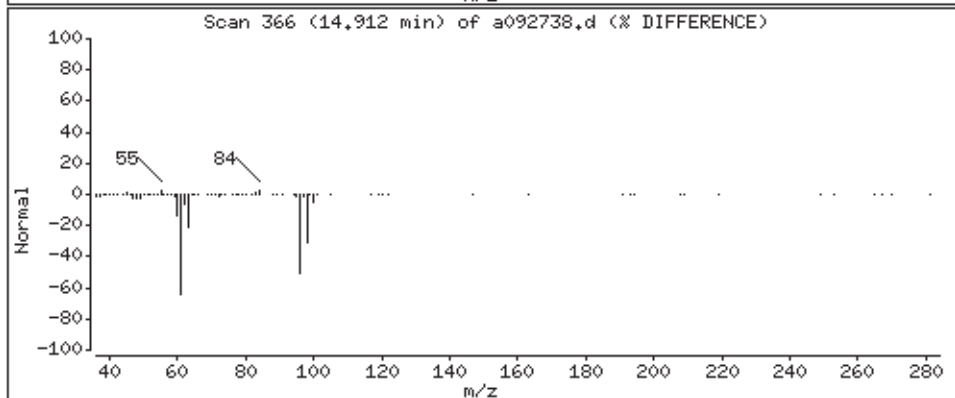
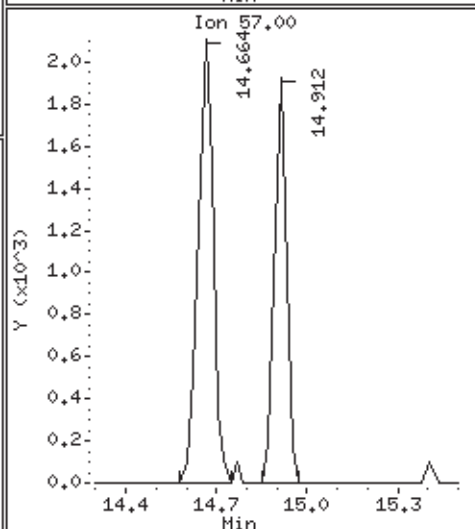
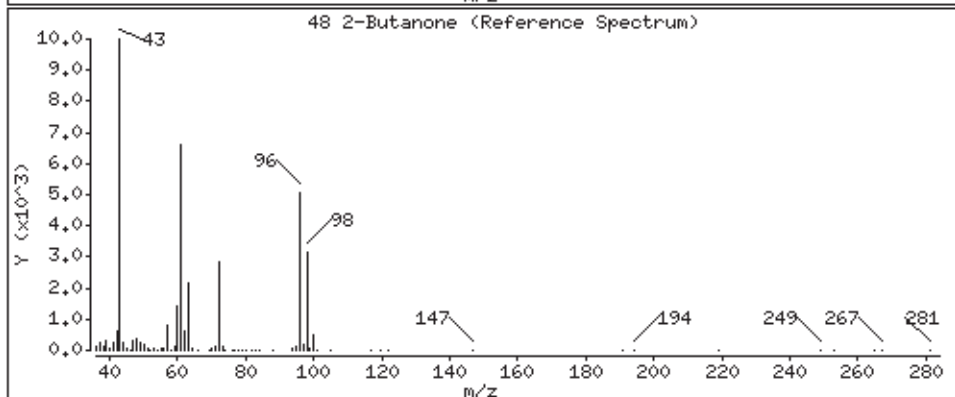
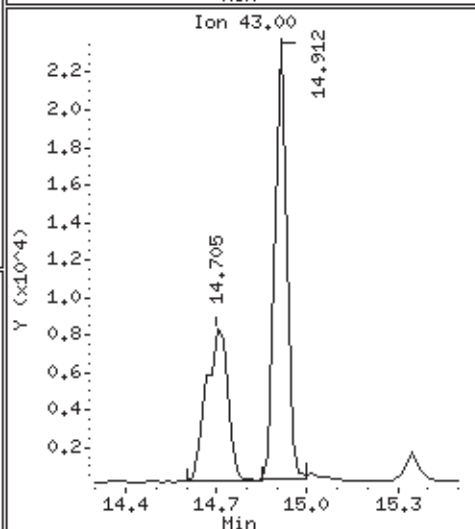
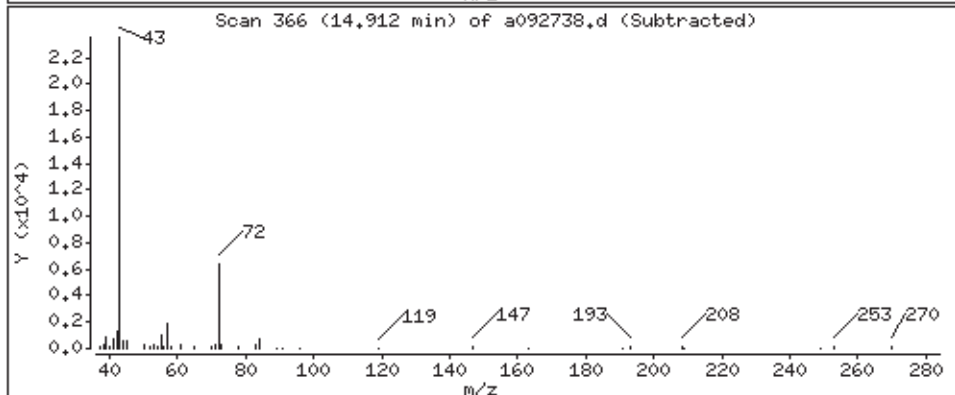
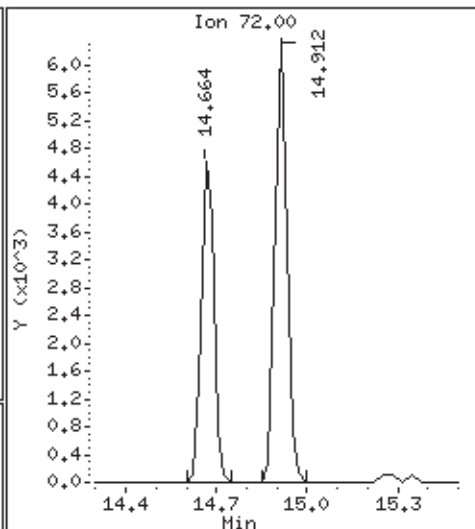
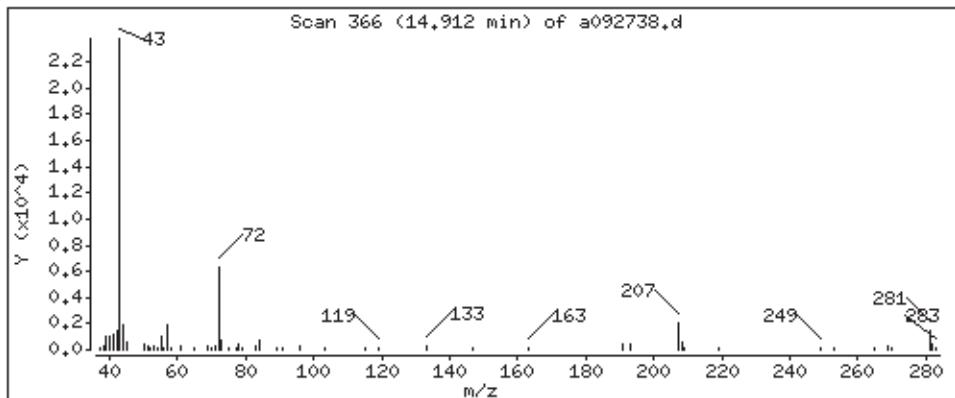
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 1,095 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-2

Lab ID#: 1009208-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.13	0.046	0.33
Toluene	0.036	0.070	0.13	0.26

Client Sample ID: ALF-2

Lab ID#: 1009208-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092738sim	Date of Collection: 9/7/10 3:08:00 PM
Dil. Factor:	1.79	Date of Analysis: 9/28/10 06:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.13	0.046	0.33
1,1-Dichloroethene	0.018	Not Detected	0.071	Not Detected
1,1-Dichloroethane	0.036	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Benzene	0.090	Not Detected	0.28	Not Detected
1,2-Dichloroethane	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Toluene	0.036	0.070	0.13	0.26
1,1,2-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
Ethyl Benzene	0.036	Not Detected	0.16	Not Detected
m,p-Xylene	0.072	Not Detected	0.31	Not Detected
o-Xylene	0.036	Not Detected	0.16	Not Detected
1,1,2,2-Tetrachloroethane	0.036	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092738sim.d
Lab Smp Id: 1009208-02B
Inj Date : 28-SEP-2010 18:09
Operator : EA Inst ID: msda.i
Smp Info : 250ml #34026
Misc Info : 7.5"Hg-5psi
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 10:31 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane			CAS #: 74-97-5					
15.267	15.269	(1.000)	130	353623	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	274921				0.00- 30.00	77.74
15.267	15.269	(1.000)	49	417827				0.00- 30.00	118.16

\$ 37	1,2-Dichloroethane-d4			CAS #: 17060-07-0					
16.082	16.084	(1.053)	65	468231	8.94579	8.946		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	252979				0.00- 30.00	54.03

* 40	1,4-Difluorobenzene			CAS #: 540-36-3					
16.659	16.661	(1.000)	114	1487448	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	239465				0.00- 46.02	16.10

\$ 47	Toluene-d8			CAS #: 2037-26-5					
19.223	19.225	(1.154)	98	1330117	10.0323	10.032		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	154794				0.00- 41.54	11.64
19.223	19.225	(1.154)	100	887721				36.40- 96.40	66.74

* 56	Chlorobenzene-d5			CAS #: 3114-55-4					
21.467	21.470	(1.000)	117	1400454	10.0000			80.00- 120.00	100.00

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 56 Chlorobenzene-d5 (continued)								
21.467	21.470	(1.000)	82	756523			0.00- 30.00	54.02

\$ 66 Bromofluorobenzene						CAS #: 460-00-4		
22.919	22.922	(1.068)	174	737323	10.4460	10.446	80.00- 120.00	100.00
22.919	22.922	(1.068)	95	965157			99.33- 159.33	130.90
22.919	22.922	(1.068)	176	713336			66.67- 126.67	96.75

5 Vinyl Chloride						CAS #: 75-01-4		
7.946	7.897	(0.520)	62	3952	0.07229	0.1294	80.00- 120.00	100.00
7.426	7.897	(0.486)	64	850			1.91- 61.91	21.52

48 Toluene						CAS #: 108-88-3		
19.335	19.337	(1.161)	91	8120	0.03908	0.06995	80.00- 120.00	100.00
19.335	19.337	(1.161)	92	4764			29.94- 89.94	58.68

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092738sim.d
 Lab Smp Id: 1009208-02B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: EA
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
 Misc Info: 7.5"Hg-5psi

Calibration Date: 27-SEP-2010
 Calibration Time: 19:59
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	361425	216855	505995	353623	-2.16
40 1,4-Difluorobenze	1535311	921187	2149435	1487448	-3.12
56 Chlorobenzene-d5	1413711	848227	1979195	1400454	-0.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	-0.01
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	-0.01
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

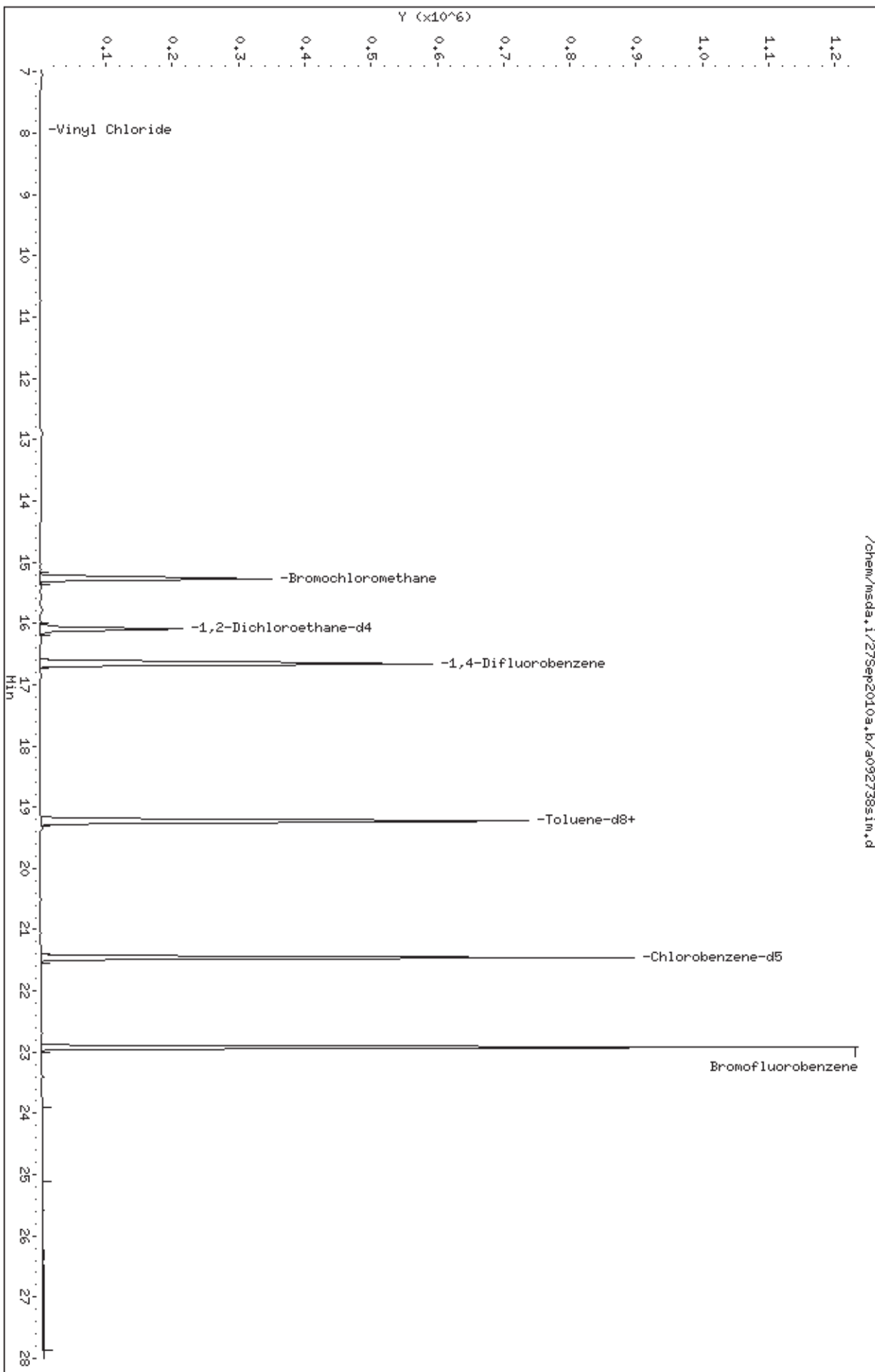
Client Name: Client SDG: 27Sep2010a
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-02B
Level: LOW Operator: EA
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Misc Info: 7.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.946	89.46	70-130
\$ 47 Toluene-d8	10.000	10.032	100.32	70-130
\$ 66 Bromofluorobenzene	10.000	10.446	104.46	70-130

Data File: /chem/msda.i/27Sep2010a,b/a092738s.im.d
Date: 28-SEP-2010 18:09
Client ID:
Sample Info: 250ml #34026

Column phase: RTX-624

Instrument: msda.i
Operator: EA
Column diameter: 0.53



Date : 28-SEP-2010 18:09

Client ID:

Instrument: msda,i

Sample Info: 250ml #34026

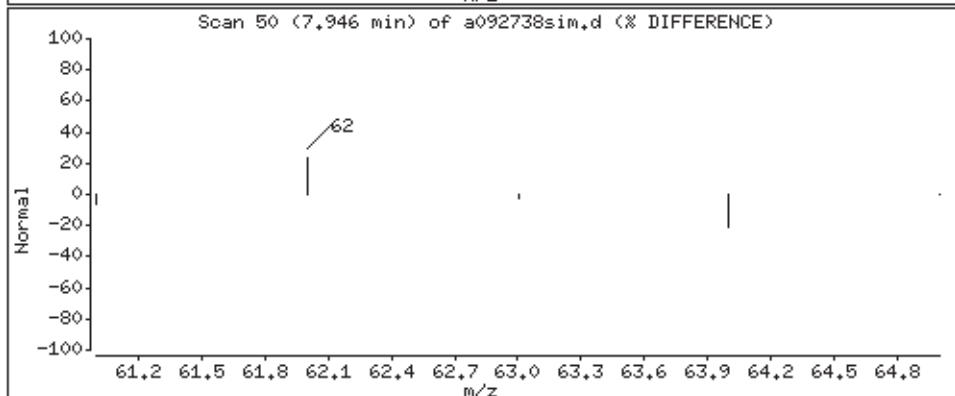
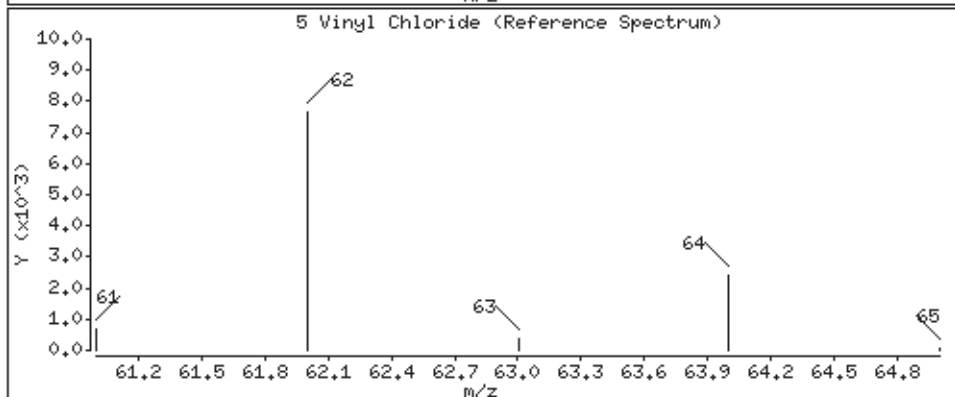
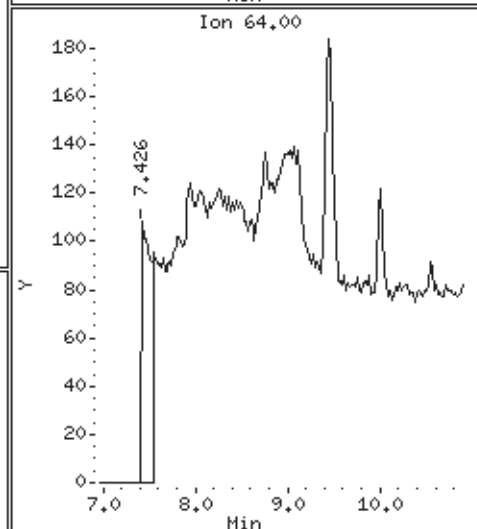
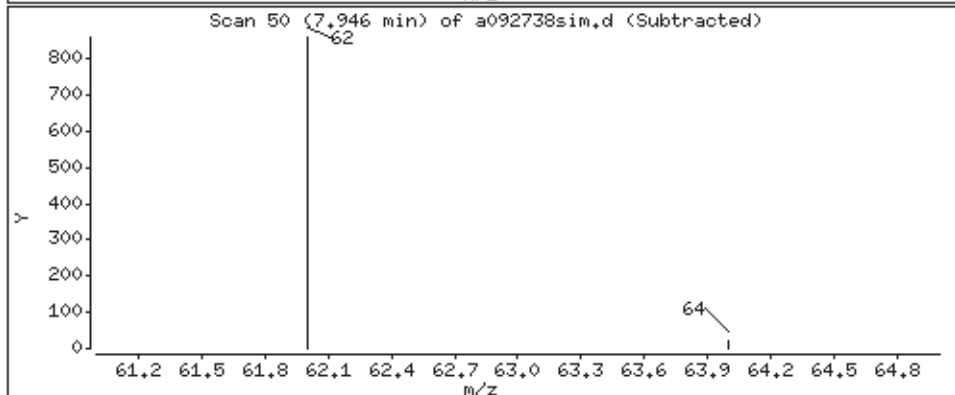
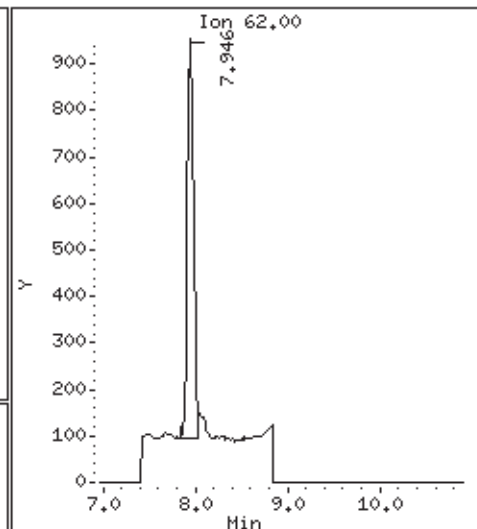
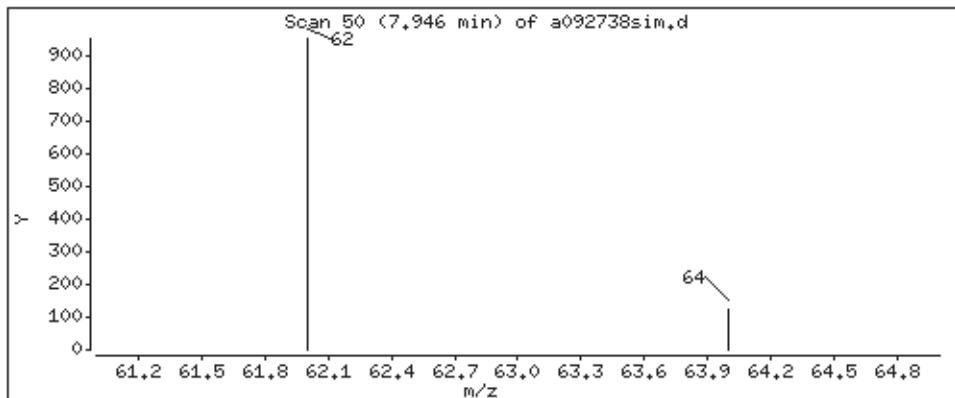
Operator: EA

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.1294 PPBV



Date : 28-SEP-2010 18:09

Client ID:

Instrument: msda,i

Sample Info: 250ml #34026

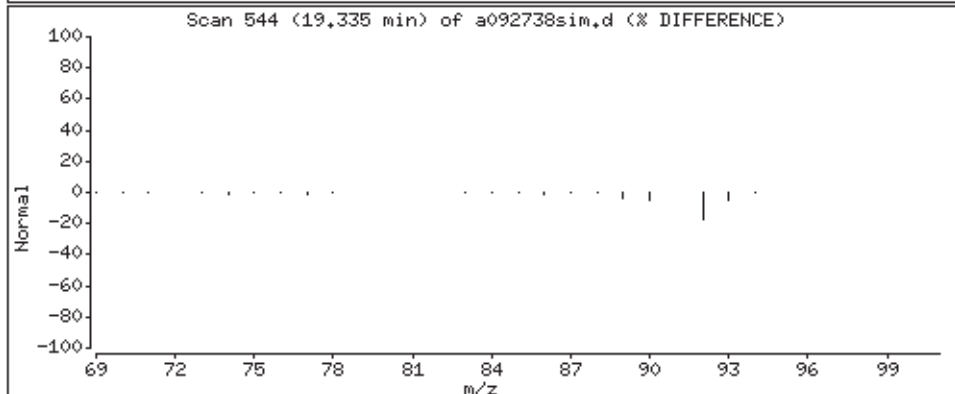
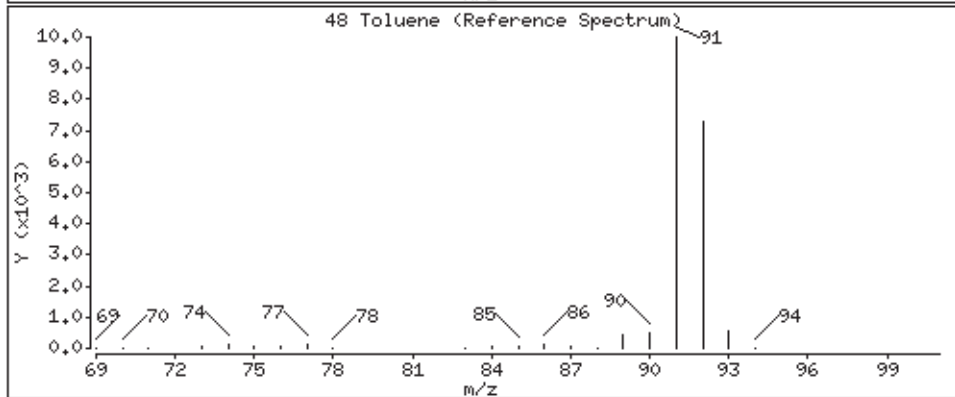
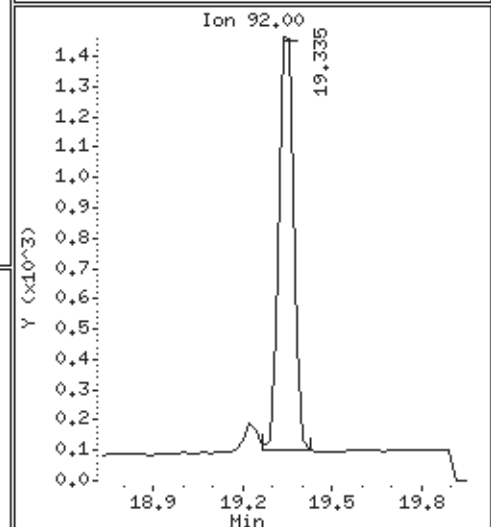
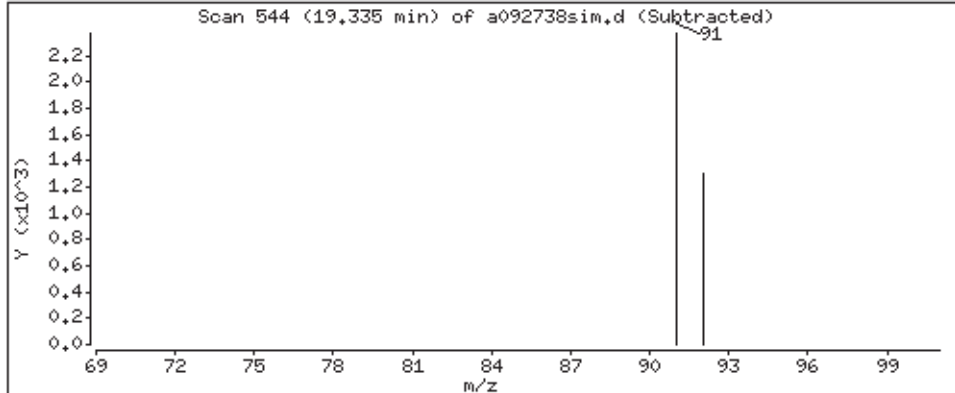
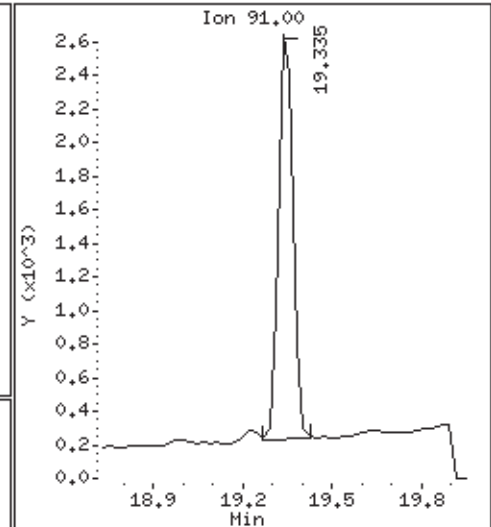
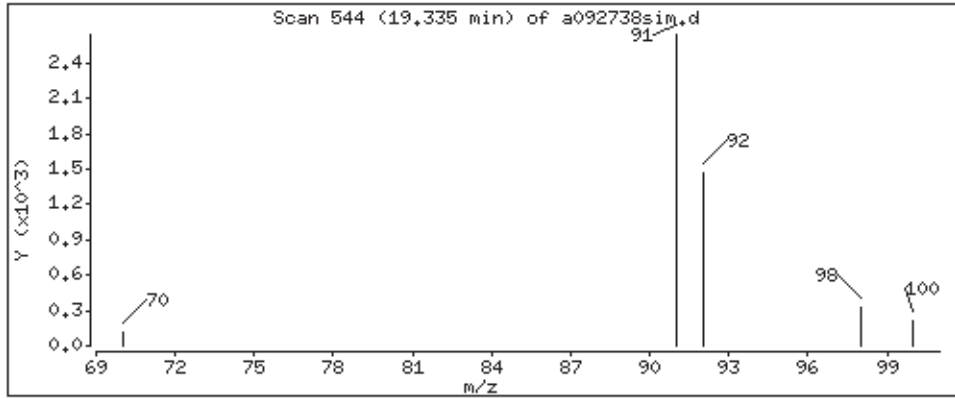
Operator: EA

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.06995 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-1

Lab ID#: 1009208-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.21	0.96	1.2
Acetone	0.86	2.9	2.0	7.0
2-Butanone (Methyl Ethyl Ketone)	0.17	0.23	0.50	0.69

Client Sample ID: ALF-1

Lab ID#: 1009208-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092739	Date of Collection:	9/7/10 3:10:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/28/10 06:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.17	Not Detected	0.35	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.17	Not Detected	0.45	Not Detected
Freon 11	0.17	0.21	0.96	1.2
Ethanol	0.86	Not Detected	1.6	Not Detected
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.86	2.9	2.0	7.0
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	0.23	0.50	0.69
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected

Client Sample ID: ALF-1

Lab ID#: 1009208-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092739	Date of Collection:	9/7/10 3:10:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/28/10 06:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092739.d
Lab Smp Id: 1009208-03A
Inj Date : 28-SEP-2010 18:58
Operator : EA Inst ID: msda.i
Smp Info : 250ml #94571
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
Meth Date : 06-Oct-2010 11:22 ejakob Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 32
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5								
15.253	15.255	(1.000)	130	349643	10.0000		80.00- 120.00	100.00
15.253	15.255	(1.000)	128	271072			48.35- 108.35	77.53
15.253	15.255	(1.000)	49	394239			89.31- 149.31	112.75

* 66 1,4-Difluorobenzene CAS #: 540-36-3								
16.645	16.647	(1.000)	114	1424112	10.0000		80.00- 120.00	100.00
16.645	16.647	(1.000)	88	225537			0.00- 46.24	15.84

* 88 Chlorobenzene-d5 CAS #: 3114-55-4								
21.454	21.456	(1.000)	117	1346821	10.0000		80.00- 120.00	100.00
21.454	21.456	(1.000)	82	747497			25.95- 85.95	55.50

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.096	16.098	(1.055)	65	440323	8.66422	8.664	80.00- 120.00	100.00
16.096	16.098	(1.055)	67	237170			0.00- 30.00	53.86

\$ 80 Toluene-d8 CAS #: 2037-26-5								
19.232	19.234	(1.155)	98	1385244	9.55038	9.550	80.00- 120.00	100.00
19.209	19.234	(1.154)	70	151363			0.00- 30.00	10.93

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.232	19.234	(1.155)	100	934199			37.02-	97.02	67.44

\$ 100 Bromofluorobenzene									
						CAS #: 460-00-4			
22.932	22.934	(1.069)	174	698450	10.1496	10.150	80.00-	120.00	100.00
22.932	22.934	(1.069)	95	906489			99.22-	159.22	129.79
22.932	22.934	(1.069)	176	679897			66.37-	126.37	97.34

16 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
10.722	10.724	(0.703)	101	16291	0.12471	0.2133	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	10085			35.22-	95.22	61.91

24 Acetone									
						CAS #: 67-64-1			
12.276	12.279	(0.805)	58	35581	1.71254	2.928	80.00-	120.00	100.00
12.276	12.279	(0.805)	43	98498			0.00-	30.00	276.83

48 2-Butanone									
						CAS #: 78-93-3			
14.913	14.915	(0.978)	72	3910	0.13641	0.2332	80.00-	120.00	100.00
14.913	14.915	(0.978)	43	16755			0.00-	30.00	428.52
14.913	14.915	(0.978)	57	1291			0.00-	30.00	33.02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092739.d
Lab Smp Id: 1009208-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: 6.5"Hg-5psi

Calibration Date: 27-SEP-2010
Calibration Time: 19:59
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	349643	-1.35
66 1,4-Difluorobenze	1467275	880365	2054185	1424112	-2.94
88 Chlorobenzene-d5	1353012	811807	1894217	1346821	-0.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010a
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-03A
Level: LOW Operator: EA
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: 6.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.664	86.64	70-130
\$ 80 Toluene-d8	10.000	9.550	95.50	70-130
\$ 100 Bromofluorobenzene	10.000	10.150	101.50	70-130

Date : 28-SEP-2010 18:58

Client ID:

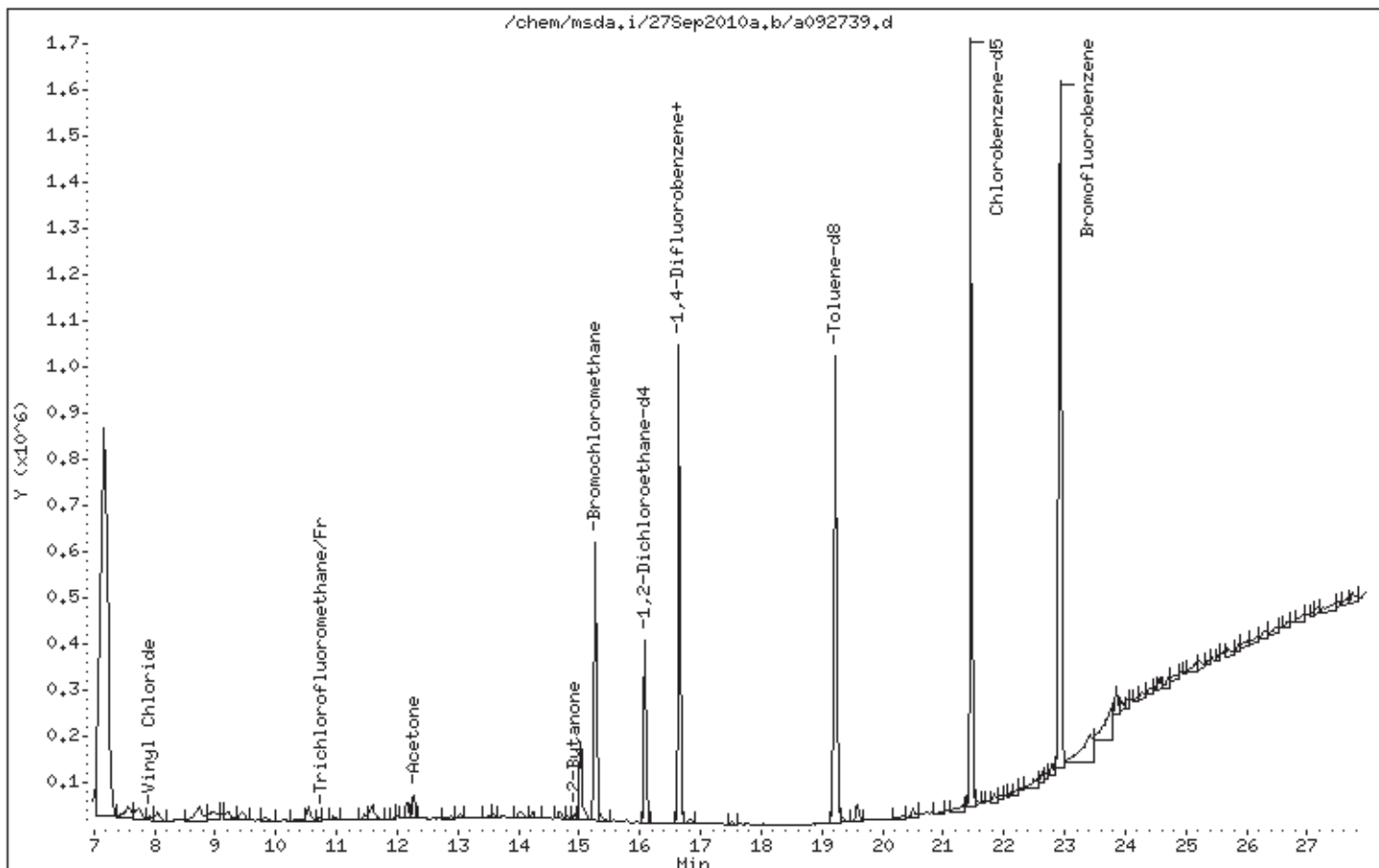
Instrument: msda.i

Sample Info: 250ml #94571

Operator: EA

Column phase: RTX-624

Column diameter: 0.32



Date : 28-SEP-2010 18:58

Client ID:

Instrument: msda,i

Sample Info: 250ml #94571

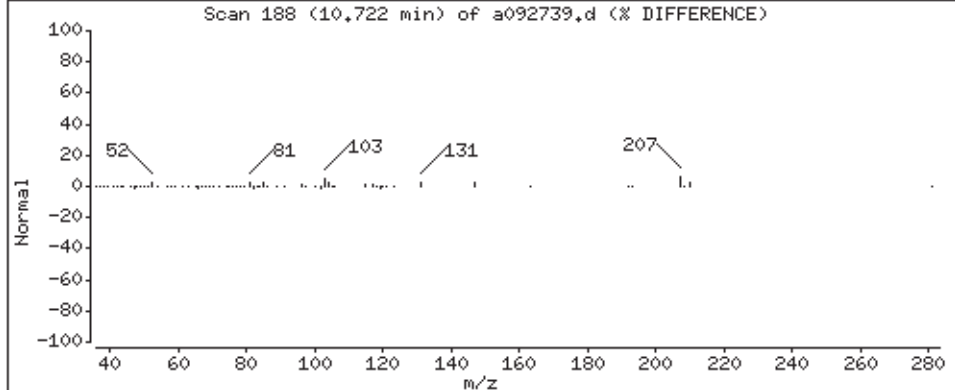
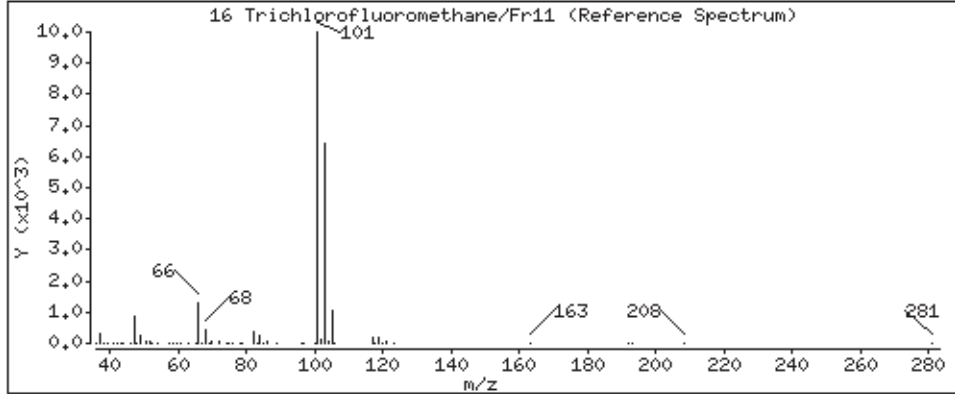
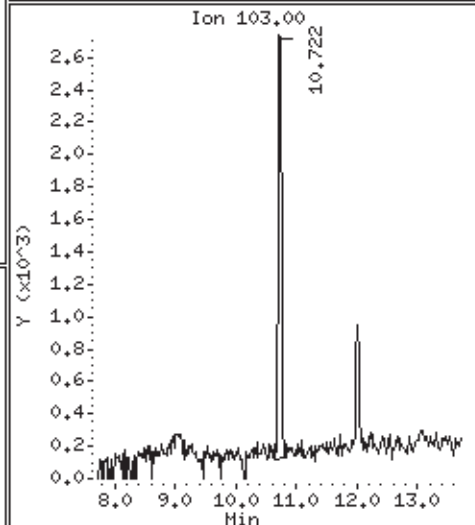
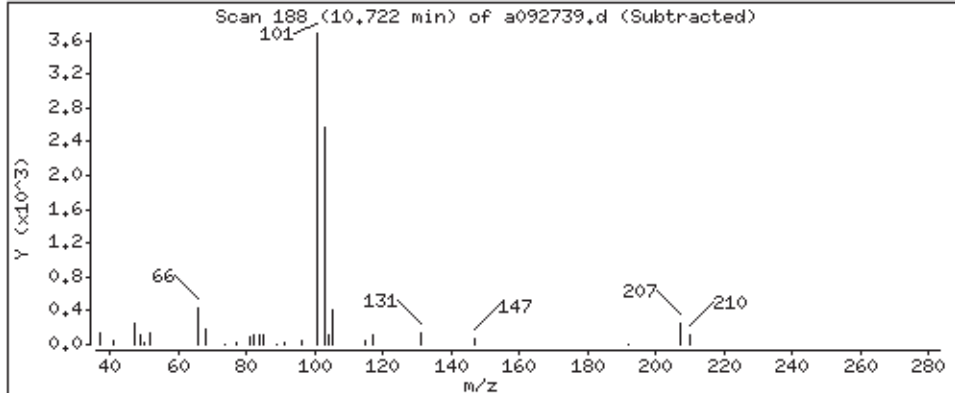
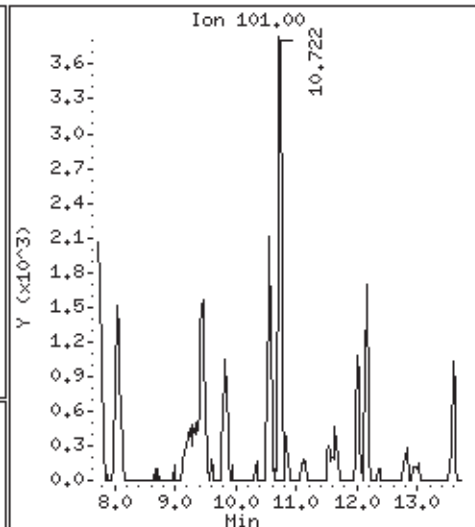
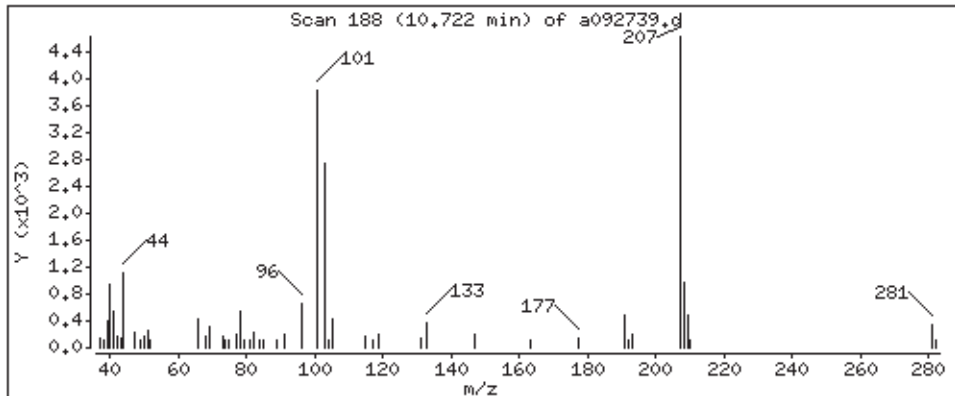
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.2133 PPBV



Date : 28-SEP-2010 18:58

Client ID:

Instrument: msda,i

Sample Info: 250ml #94571

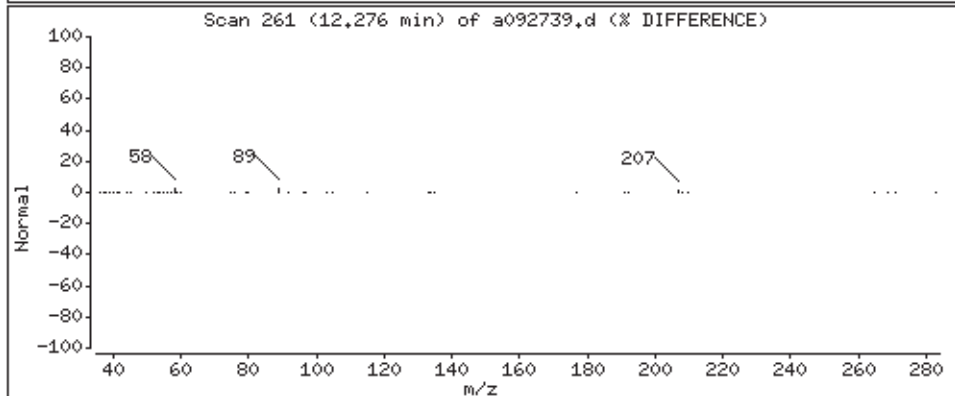
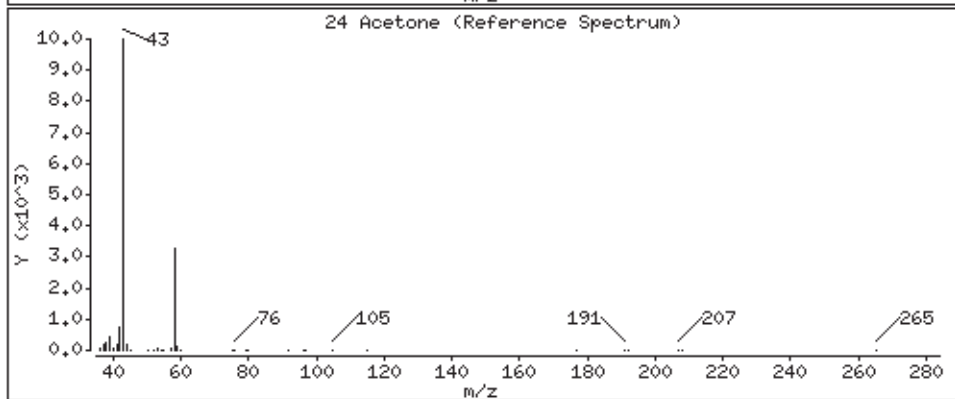
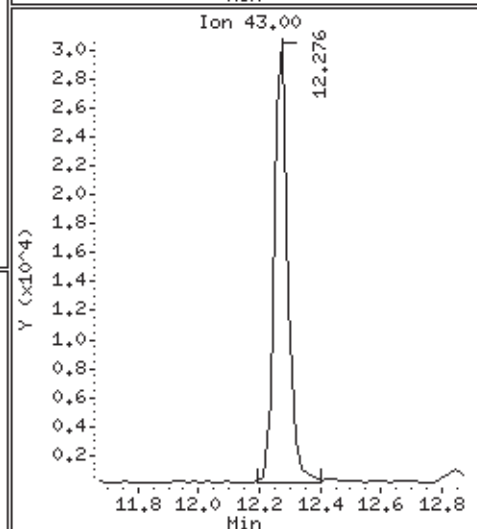
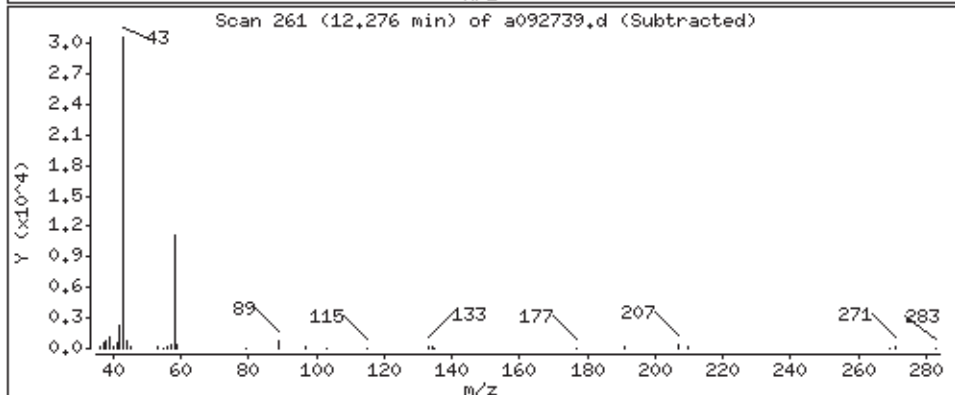
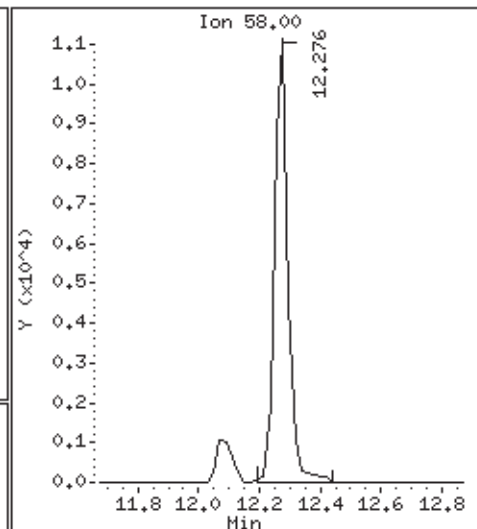
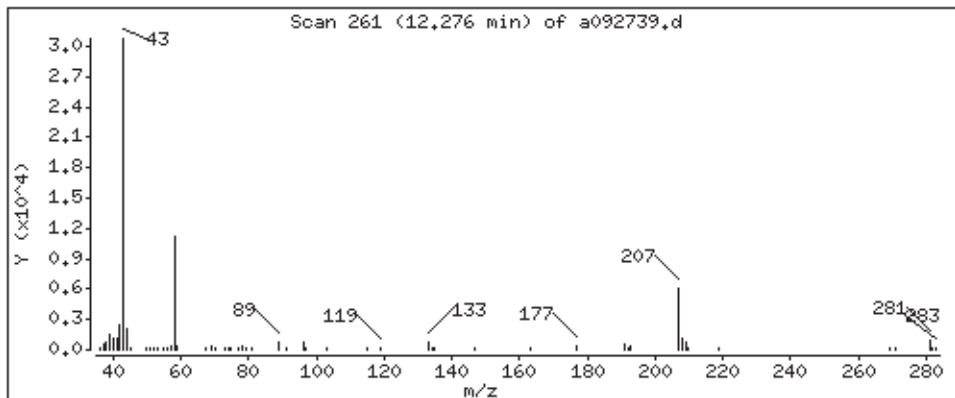
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 2,928 PPBV



Date : 28-SEP-2010 18:58

Client ID:

Instrument: msda,i

Sample Info: 250ml #94571

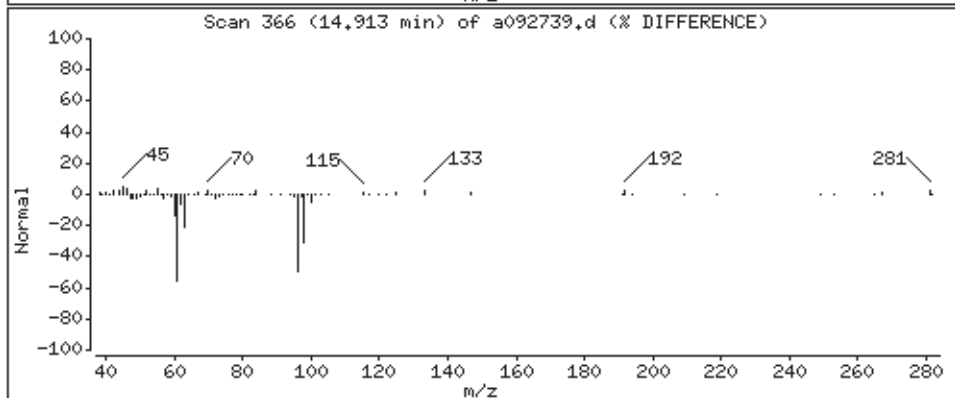
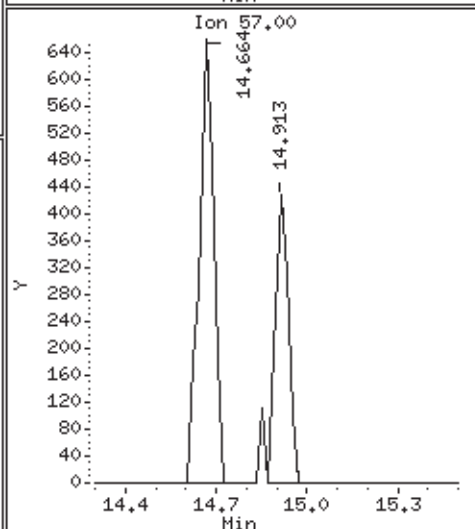
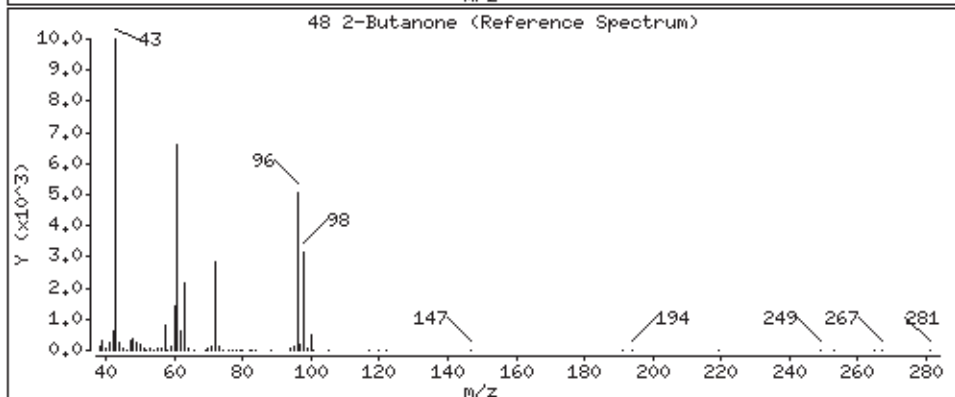
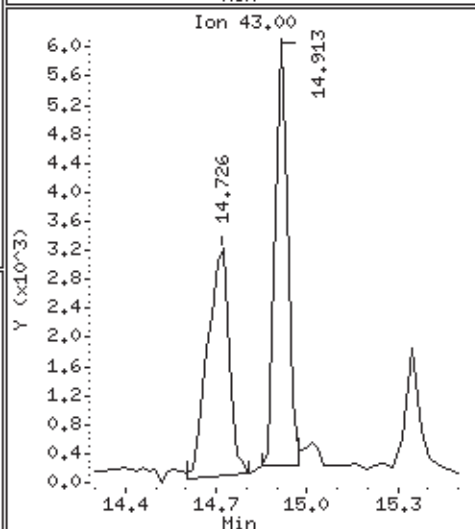
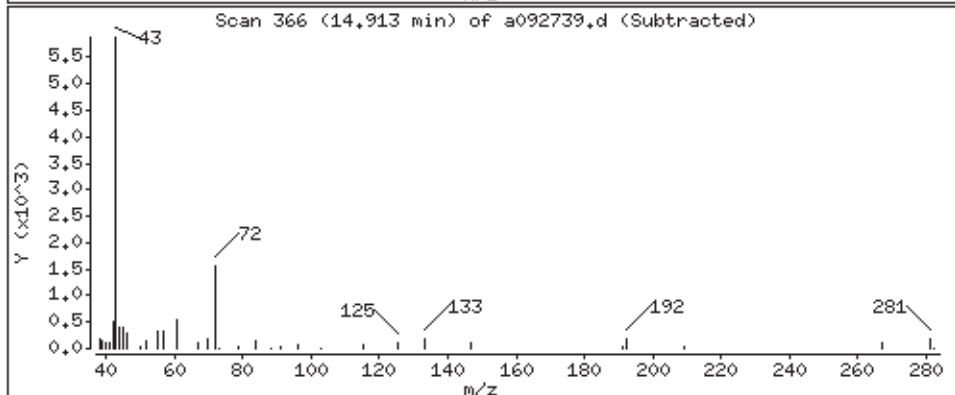
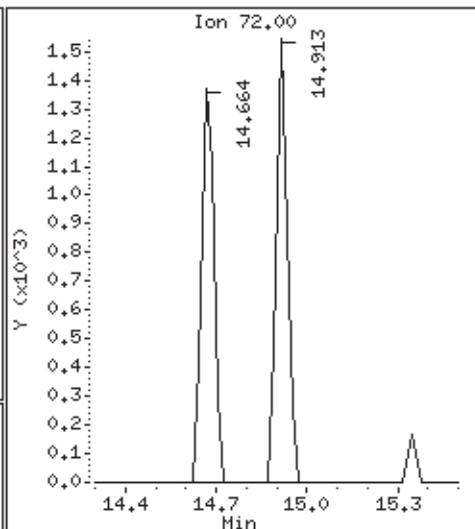
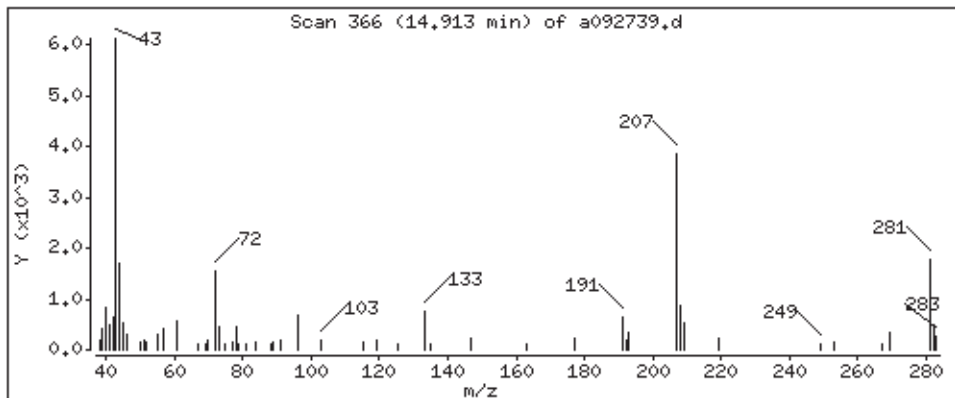
Operator: EA

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 0.2332 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-1

Lab ID#: 1009208-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.34	0.044	0.86
Benzene	0.086	0.087	0.27	0.28
Toluene	0.034	0.096	0.13	0.36

Client Sample ID: ALF-1

Lab ID#: 1009208-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092739sim	Date of Collection: 9/7/10 3:10:00 PM
Dil. Factor:	1.71	Date of Analysis: 9/28/10 06:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.34	0.044	0.86
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Benzene	0.086	0.087	0.27	0.28
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.096	0.13	0.36
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
Ethyl Benzene	0.034	Not Detected	0.15	Not Detected
m,p-Xylene	0.068	Not Detected	0.30	Not Detected
o-Xylene	0.034	Not Detected	0.15	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092739sim.d
Lab Smp Id: 1009208-03B
Inj Date : 28-SEP-2010 18:58
Operator : EA Inst ID: msda.i
Smp Info : 250ml #94571
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 10:31 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.267	15.269	(1.000)	130	355428	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	274767				0.00- 30.00	77.31
15.267	15.269	(1.000)	49	419547				0.00- 30.00	118.04

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.082	16.084	(1.053)	65	472583	8.98307	8.983		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	255860				0.00- 30.00	54.14

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.659	16.661	(1.000)	114	1489942	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	239500				0.00- 46.02	16.07

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.223	19.225	(1.154)	98	1336277	10.0619	10.062		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	154983				0.00- 41.54	11.60
19.223	19.225	(1.154)	100	890942				36.40- 96.40	66.67

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.467	21.470	(1.000)	117	1401357	10.0000			80.00- 120.00	100.00

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		
==	=====	=====	====	=====	=====	=====	=====	=====
* 56 Chlorobenzene-d5 (continued)								
21.467	21.470	(1.000)	82	756797			0.00- 30.00	54.00

\$ 66 Bromofluorobenzene CAS #: 460-00-4								
22.920	22.922	(1.068)	174	734985	10.4061	10.406	80.00- 120.00	100.00
22.920	22.922	(1.068)	95	961571			99.33- 159.33	130.83
22.920	22.922	(1.068)	176	712147			66.67- 126.67	96.89

5 Vinyl Chloride CAS #: 75-01-4								
7.947	7.897	(0.520)	62	10872	0.19785	0.3383	80.00- 120.00	100.00
7.947	7.897	(0.520)	64	501			1.91- 61.91	4.62

36 Benzene CAS #: 71-43-2								
16.110	16.112	(0.967)	78	9658	0.05080	0.08686	80.00- 120.00	100.00
16.110	16.112	(0.967)	77	3022			0.00- 30.00	31.29

48 Toluene CAS #: 108-88-3								
19.335	19.337	(1.161)	91	11641	0.05593	0.09563	80.00- 120.00	100.00
19.335	19.337	(1.161)	92	6975			29.94- 89.94	59.92

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092739sim.d
 Lab Smp Id: 1009208-03B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: EA
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
 Misc Info: 6.5"Hg-5psi

Calibration Date: 27-SEP-2010
 Calibration Time: 19:59
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	361425	216855	505995	355428	-1.66
40 1,4-Difluorobenze	1535311	921187	2149435	1489942	-2.96
56 Chlorobenzene-d5	1413711	848227	1979195	1401357	-0.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	-0.01
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	-0.01
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

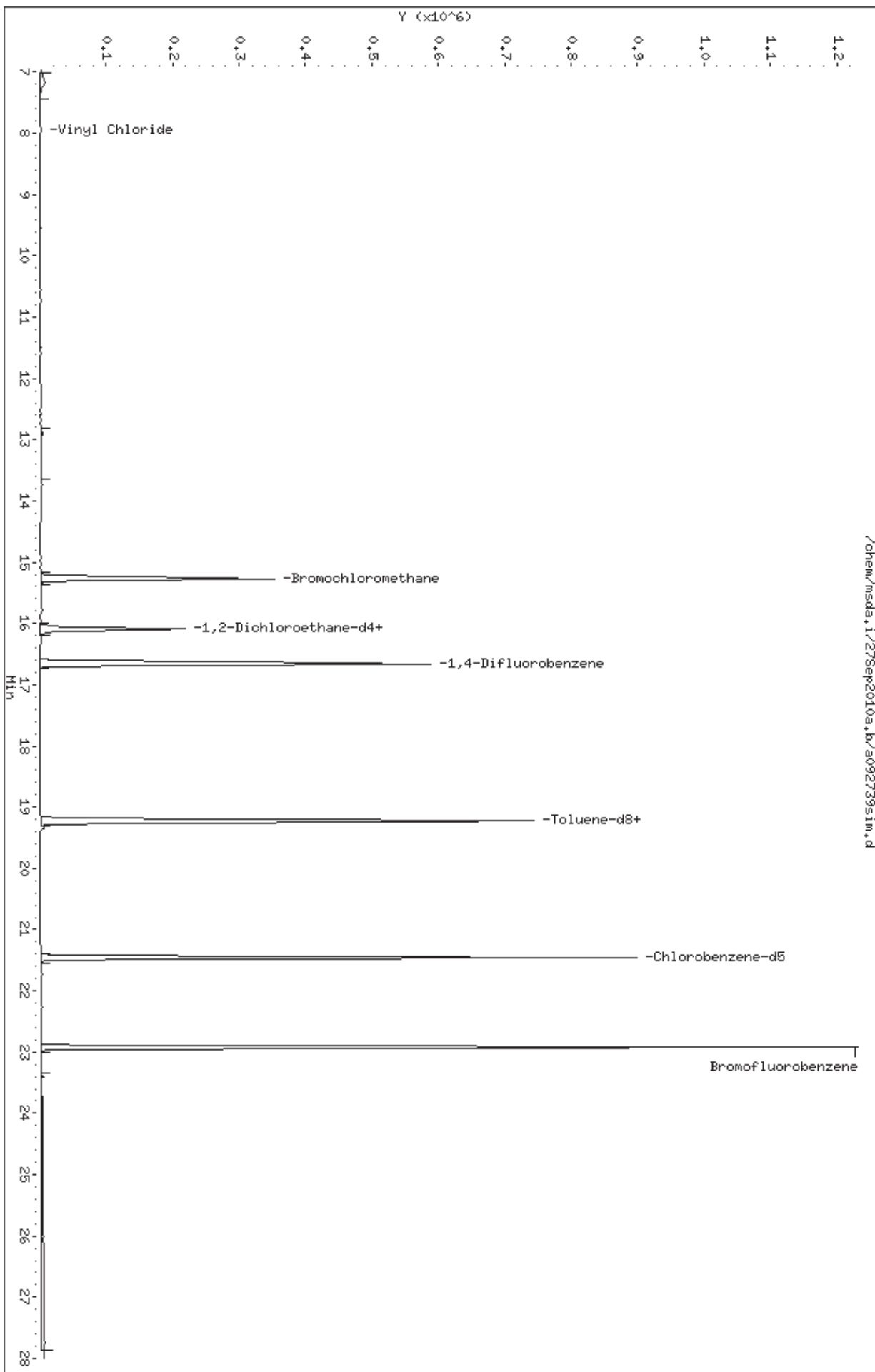
Client Name: Client SDG: 27Sep2010a
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-03B
Level: LOW Operator: EA
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Misc Info: 6.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.983	89.83	70-130
\$ 47 Toluene-d8	10.000	10.062	100.62	70-130
\$ 66 Bromofluorobenzene	10.000	10.406	104.06	70-130

Data File: /chem/msda.1/27Sep2010a.k/a092739s.im.d
Date: 28-SEP-2010 18:58
Client ID:
Sample Info: 250ml #94571

Column phase: RTX-624

Instrument: msda.i
Operator: EA
Column diameter: 0.53



Date : 28-SEP-2010 18:58

Client ID:

Instrument: msda.i

Sample Info: 250ml #94571

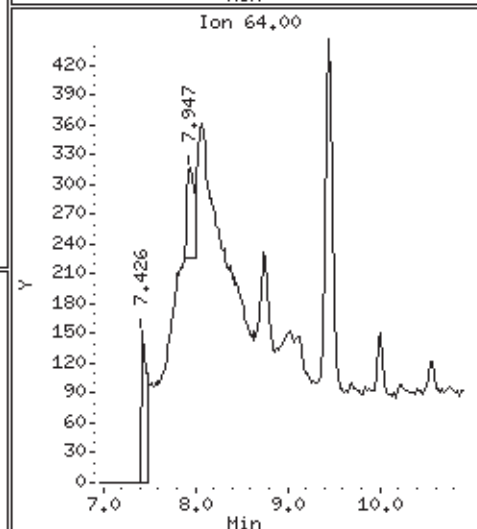
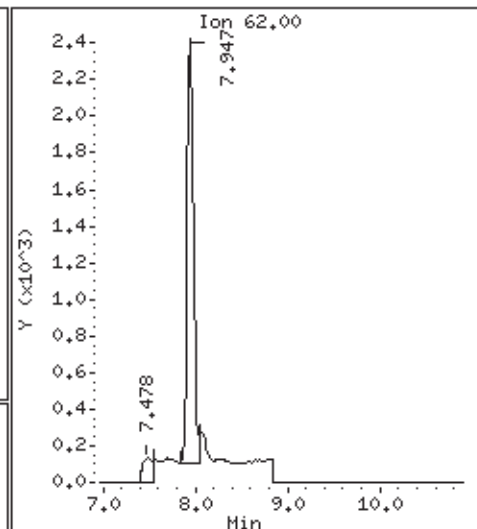
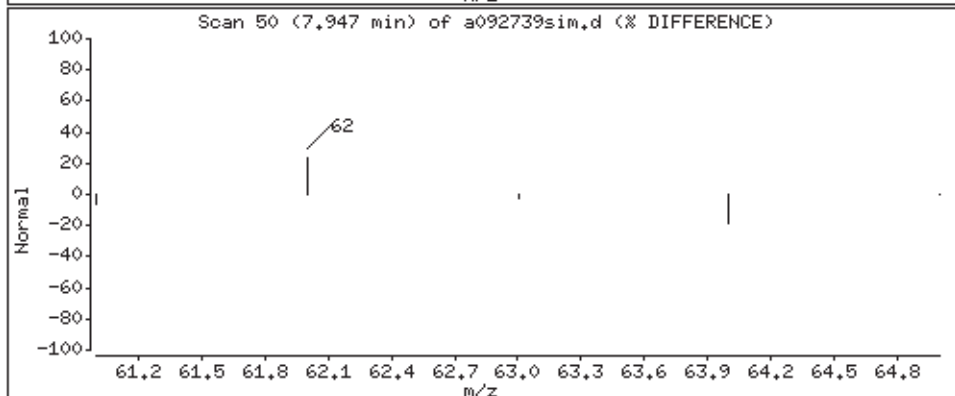
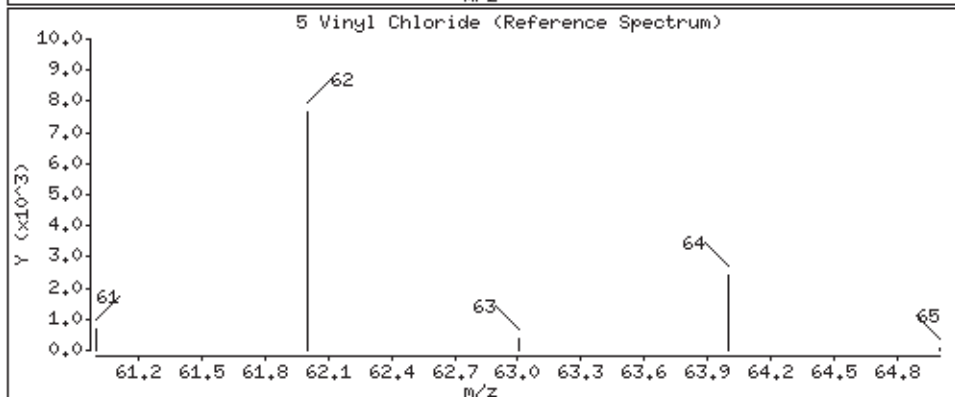
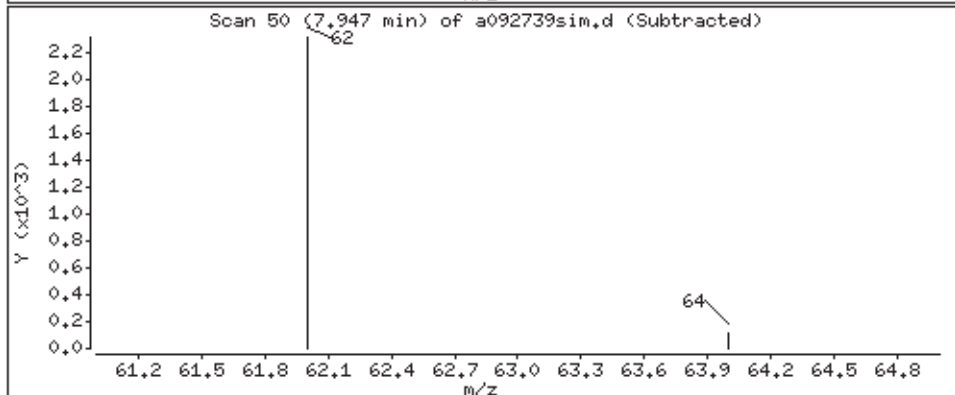
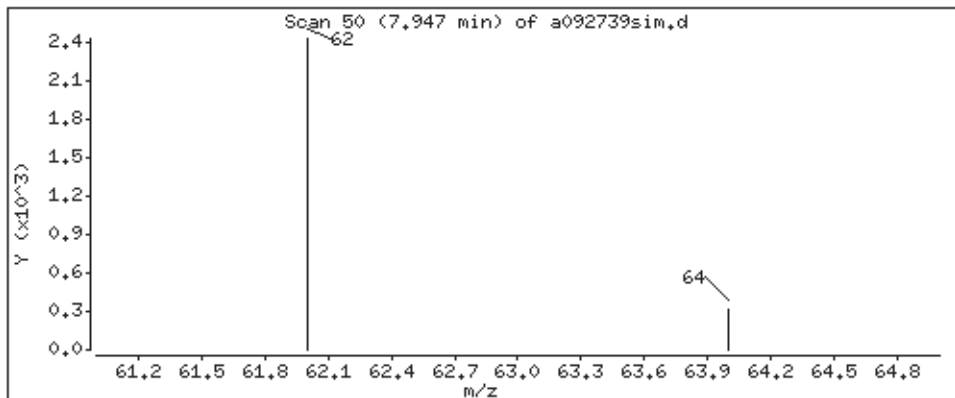
Operator: EA

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.3383 PPBV



Date : 28-SEP-2010 18:58

Client ID:

Instrument: msda,i

Sample Info: 250ml #94571

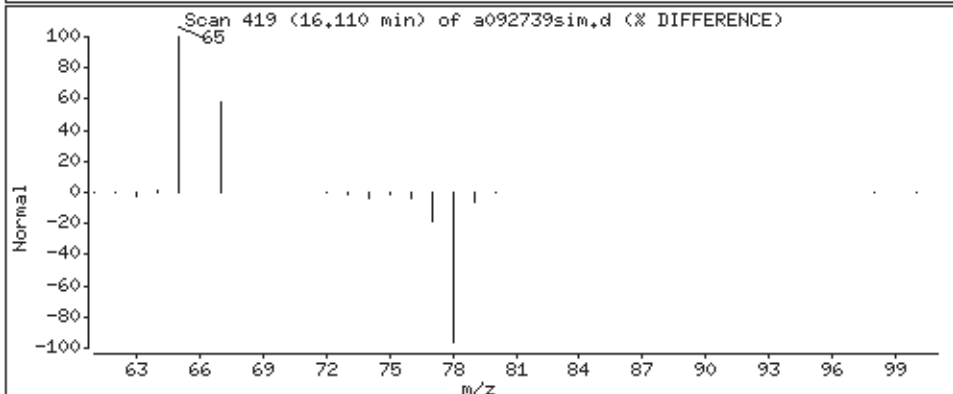
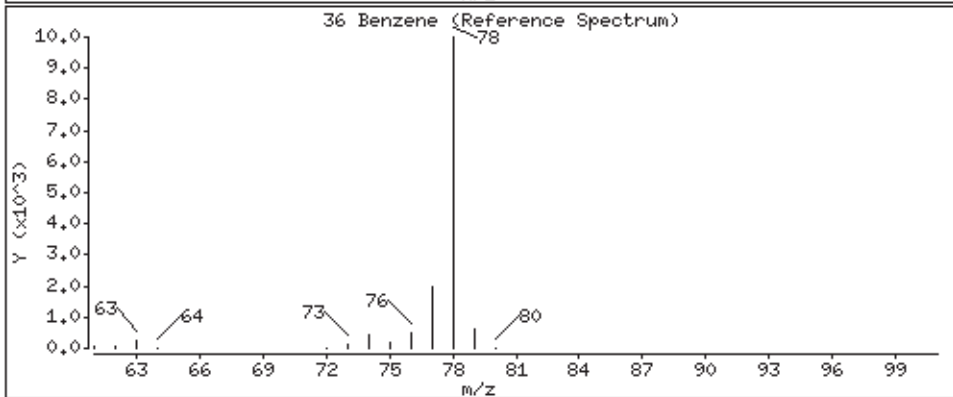
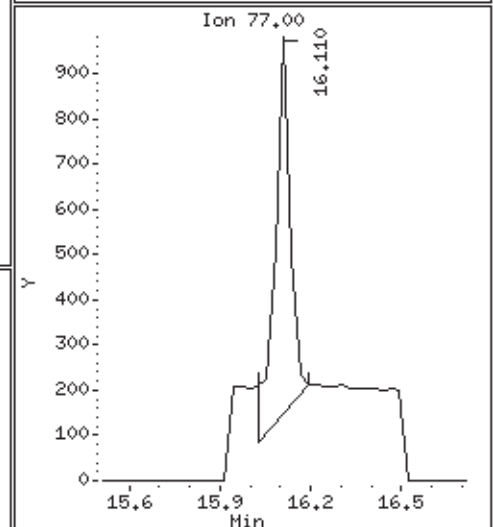
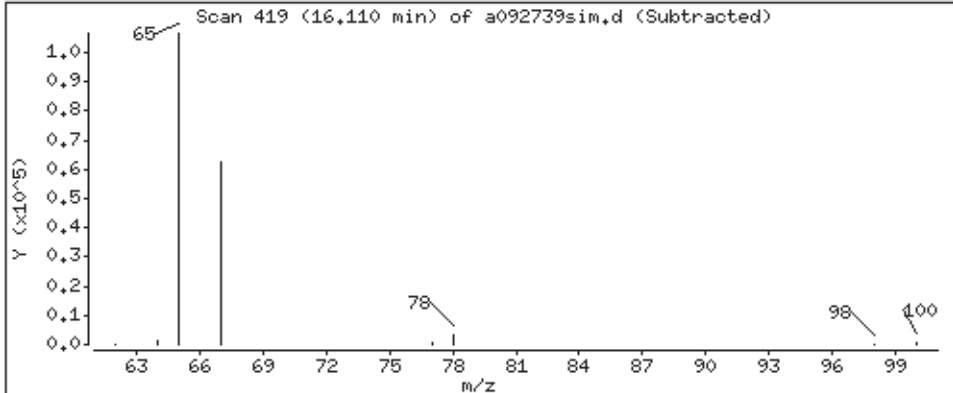
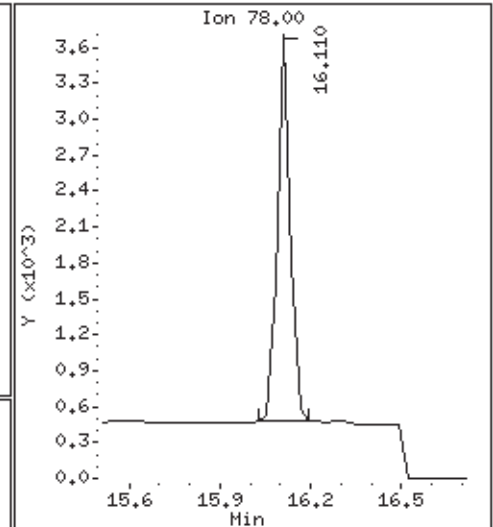
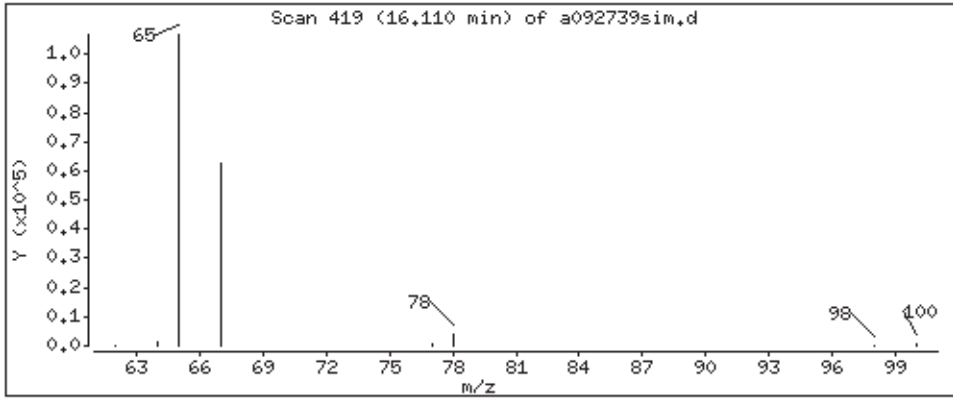
Operator: EA

Column phase: RTX-624

Column diameter: 0.53

36 Benzene

Concentration: 0.08686 PPBV



Date : 28-SEP-2010 18:58

Client ID:

Instrument: msda,i

Sample Info: 250ml #94571

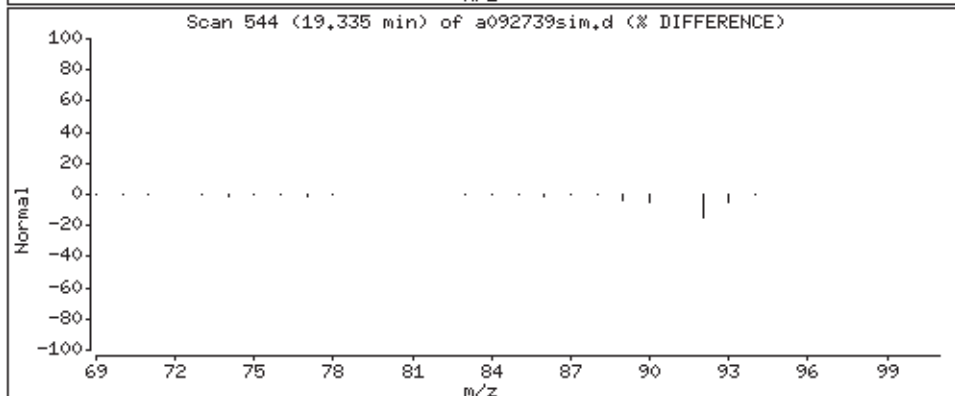
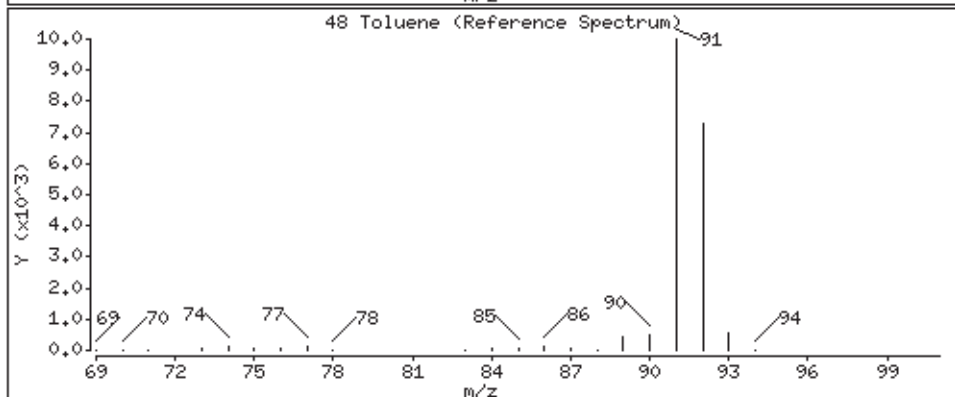
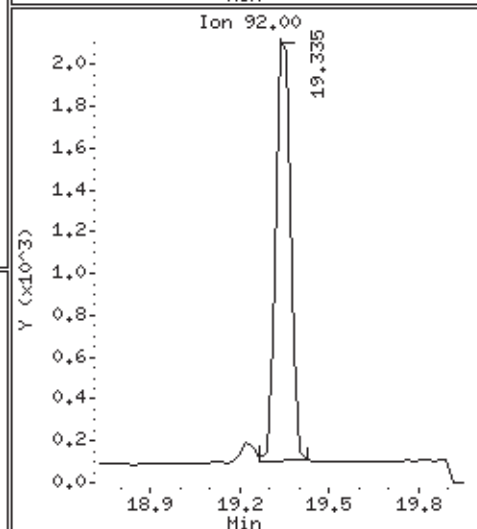
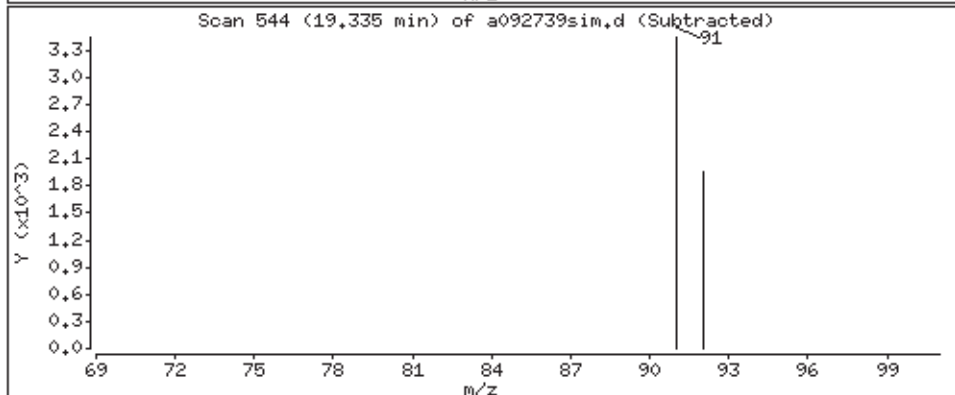
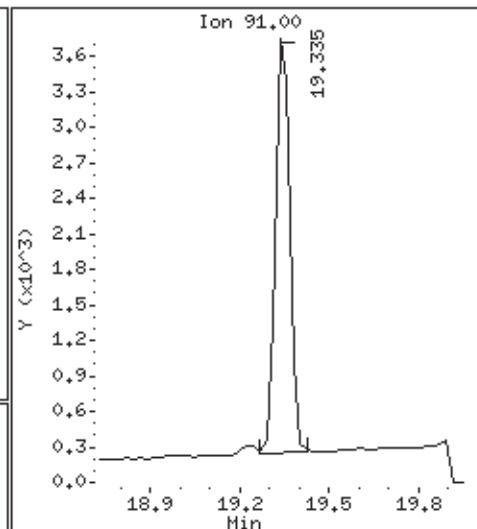
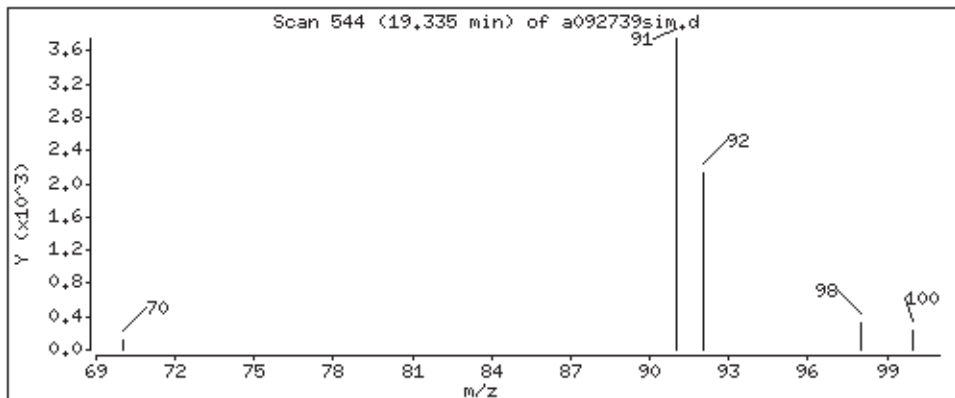
Operator: EA

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.09563 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-4

Lab ID#: 1009208-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.18	0.22	0.98	1.2
Ethanol	0.88	0.97	1.6	1.8
Acetone	0.88	3.8	2.1	9.0
Methylene Chloride	0.35	0.97	1.2	3.4
2-Butanone (Methyl Ethyl Ketone)	0.18	0.44	0.52	1.3

Client Sample ID: ALF-4

Lab ID#: 1009208-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092807	Date of Collection:	9/7/10 3:13:00 PM
Dil. Factor:	1.75	Date of Analysis:	9/29/10 07:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.18	Not Detected	0.36	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.18	Not Detected	0.68	Not Detected
Chloroethane	0.18	Not Detected	0.46	Not Detected
Freon 11	0.18	0.22	0.98	1.2
Ethanol	0.88	0.97	1.6	1.8
Freon 113	0.18	Not Detected	1.3	Not Detected
Acetone	0.88	3.8	2.1	9.0
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	0.97	1.2	3.4
Hexane	0.18	Not Detected	0.62	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.18	0.44	0.52	1.3
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Heptane	0.18	Not Detected	0.72	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Styrene	0.18	Not Detected	0.74	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected



Client Sample ID: ALF-4

Lab ID#: 1009208-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092807	Date of Collection:	9/7/10 3:13:00 PM
Dil. Factor:	1.75	Date of Analysis:	9/29/10 07:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092807.d
Lab Smp Id: 1009208-04A
Inj Date : 29-SEP-2010 07:11
Operator : cr
Smp Info : 250ml #14012
Misc Info : 7.0"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m
Meth Date : 29-Sep-2010 11:04 croush
Cal Date : 20-SEP-2010 20:09
Als bottle: 32
Dil Factor: 1.75000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore
Inst ID: msda.i
Quant Type: ISTD
Cal File: a092015.d
Compound Sublist: EXPO14301.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.253	15.255	(1.000)	130	343368	10.0000			80.00- 120.00	100.00
15.253	15.255	(1.000)	128	270718				48.35- 108.35	78.84
15.253	15.255	(1.000)	49	373584				89.31- 149.31	108.80

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.645	16.647	(1.000)	114	1365362	10.0000			80.00- 120.00	100.00
16.645	16.647	(1.000)	88	218158				0.00- 46.24	15.98

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.454	21.456	(1.000)	117	1274936	10.0000			80.00- 120.00	100.00
21.454	21.456	(1.000)	82	698683				25.95- 85.95	54.80

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.096	16.098	(1.055)	65	427327	8.56216	8.562		80.00- 120.00	100.00
16.096	16.098	(1.055)	67	232350				0.00- 30.00	54.37

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.232	19.211	(1.155)	98	1323335	9.51614	9.516		80.00- 120.00	100.00
19.209	19.211	(1.154)	70	142070				0.00- 30.00	10.74

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.232	19.211	(1.155)	100	889864			37.86-	97.86	67.24

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.932	22.934	(1.069)	174	658595	10.1101	10.110	80.00-	120.00	100.00
22.932	22.934	(1.069)	95	849038			98.89-	158.89	128.92
22.932	22.934	(1.069)	176	633449			67.15-	127.15	96.18

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.722	10.724	(0.703)	101	15869	0.12370	0.2165	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	9831			35.14-	95.14	61.95

20 Ethanol CAS #: 64-17-5									
11.551	11.532	(0.757)	45	8547	0.55557	0.9722	80.00-	120.00	100.00
11.551	11.532	(0.757)	43	2024			0.00-	30.00	23.69
11.551	11.532	(0.757)	46	3159			0.00-	30.00	36.96

24 Acetone CAS #: 67-64-1									
12.276	12.258	(0.805)	58	44266	2.16950	3.797	80.00-	120.00	100.00
12.276	12.258	(0.805)	43	119770			0.00-	30.00	270.57

33 Methylene Chloride CAS #: 75-09-2									
13.035	13.037	(0.855)	84	24996	0.55282	0.9674	80.00-	120.00	100.00
13.035	13.037	(0.855)	49	25404			0.00-	30.00	101.63
13.035	13.037	(0.855)	51	9360			0.00-	30.00	37.45

48 2-Butanone CAS #: 78-93-3									
14.912	14.915	(0.978)	72	7018	0.24931	0.4363	80.00-	120.00	100.00
14.912	14.915	(0.978)	43	26338			0.00-	30.00	375.26
14.912	14.915	(0.978)	57	1921			0.00-	30.00	27.38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092807.d
Lab Smp Id: 1009208-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 7.0"Hg - 5psi

Calibration Date: 28-SEP-2010
Calibration Time: 19:58
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	343368	-2.31
66 1,4-Difluorobenze	1417041	850225	1983857	1365362	-3.65
88 Chlorobenzene-d5	1320371	792223	1848519	1274936	-3.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-04A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 7.0"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.562	85.62	70-130
\$ 80 Toluene-d8	10.000	9.516	95.16	70-130
\$ 100 Bromofluorobenzene	10.000	10.110	101.10	70-130

Date : 29-SEP-2010 07:11

Client ID:

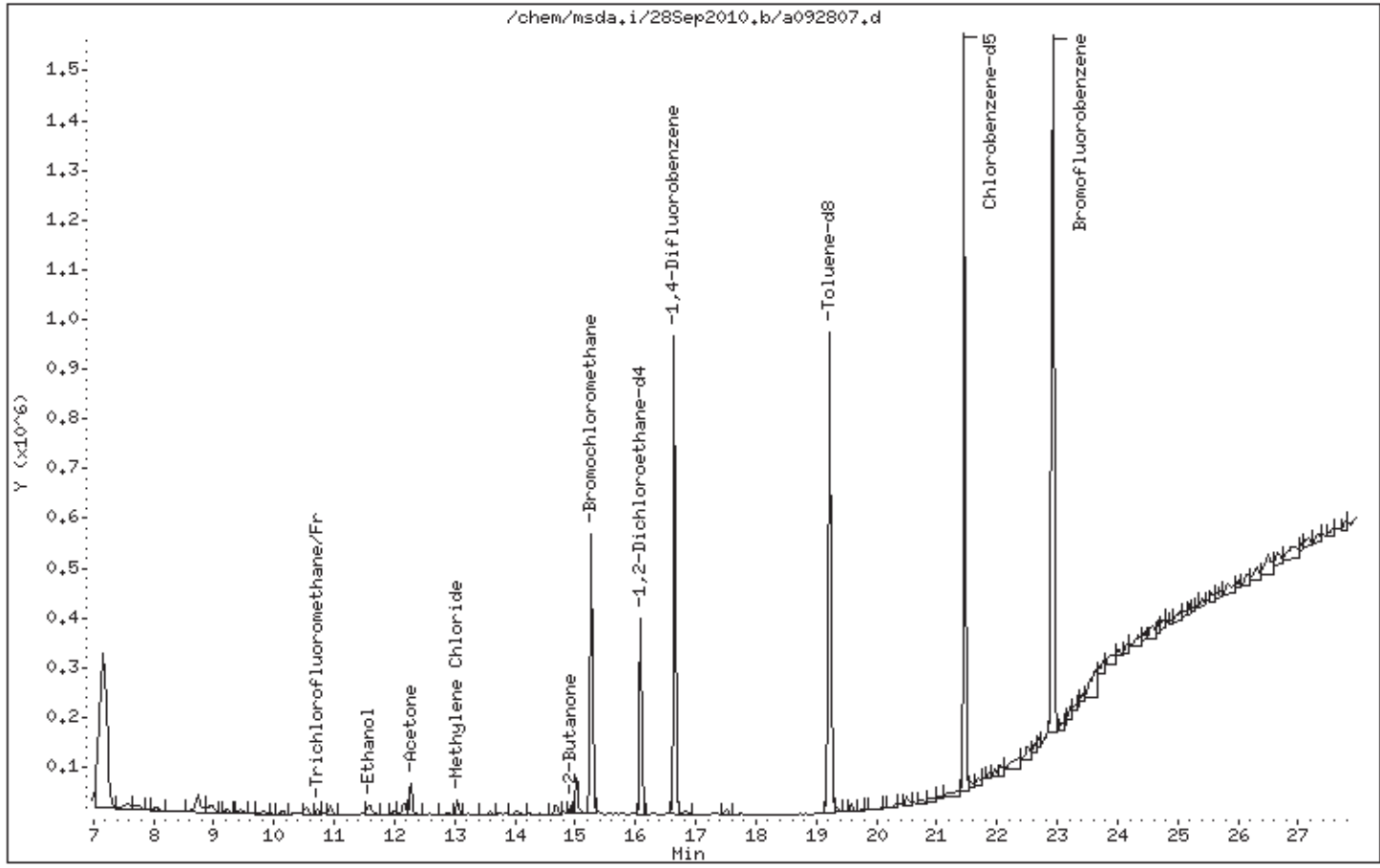
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Sample Info: 250ml #14012

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda.i

Sample Info: 250ml #14012

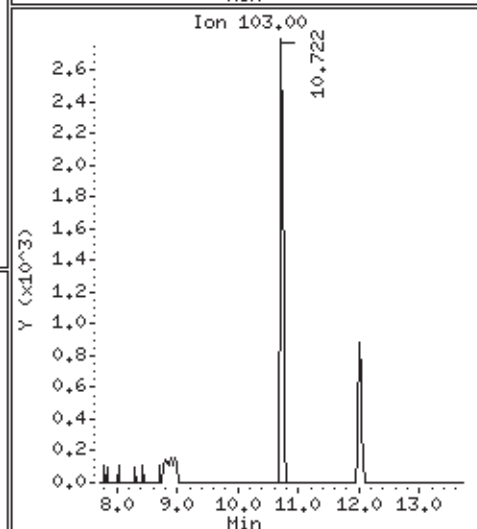
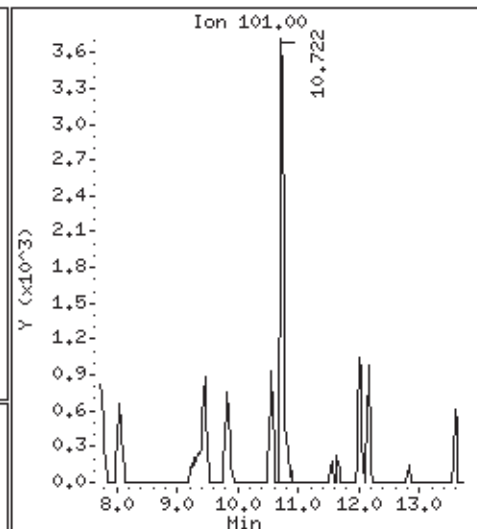
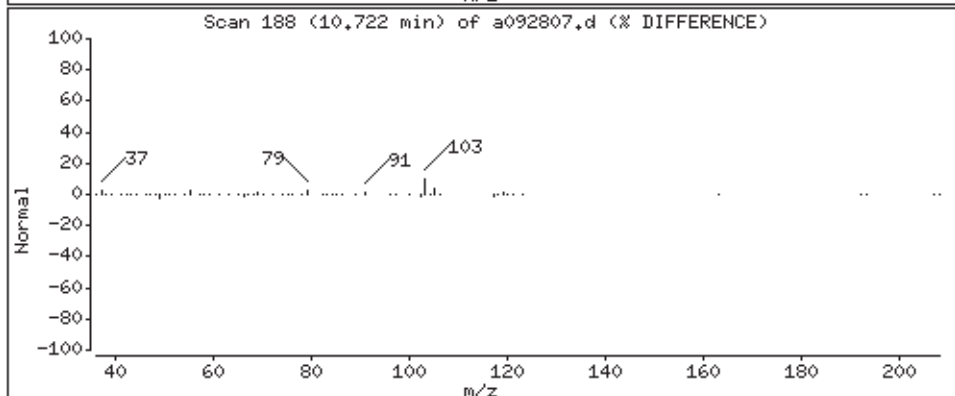
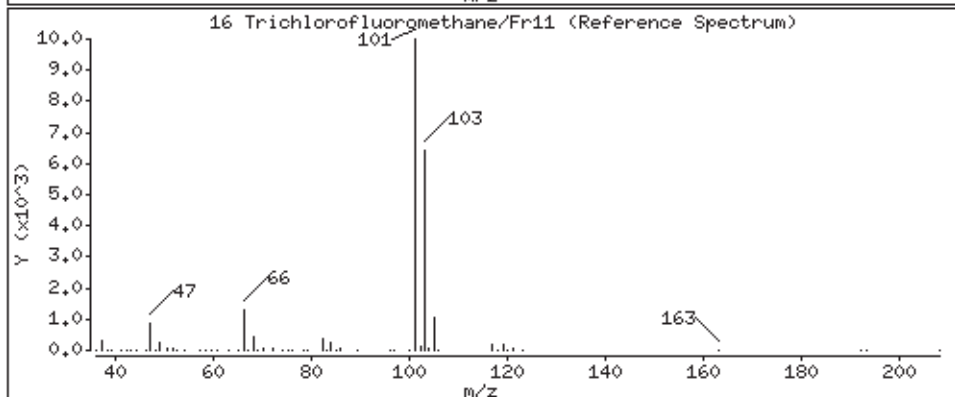
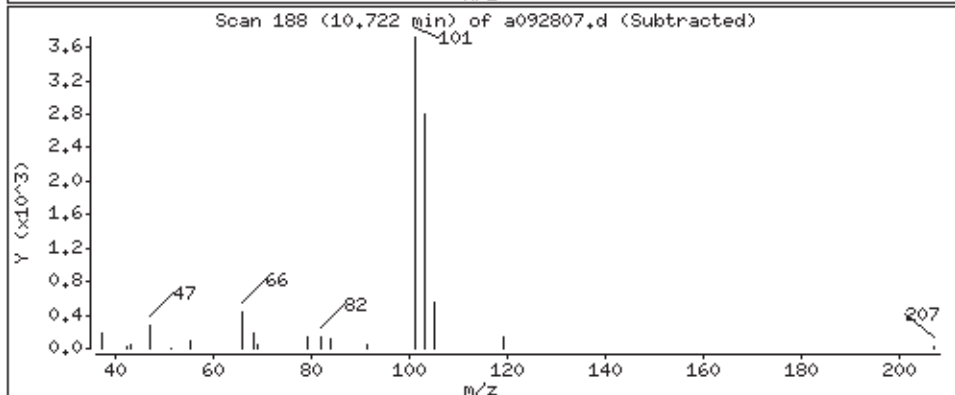
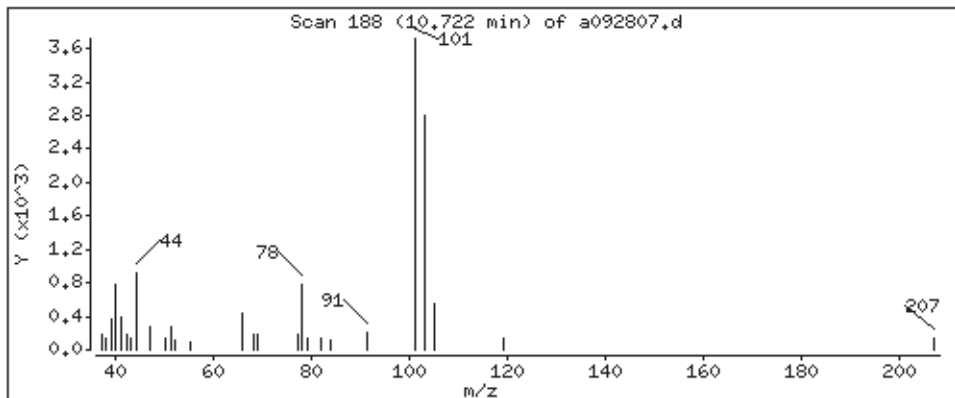
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.2165 PPBV



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda.i

Sample Info: 250ml #14012

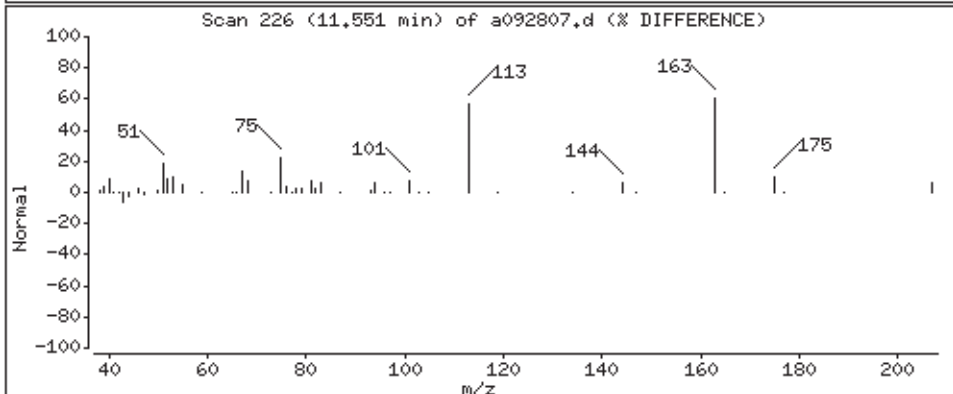
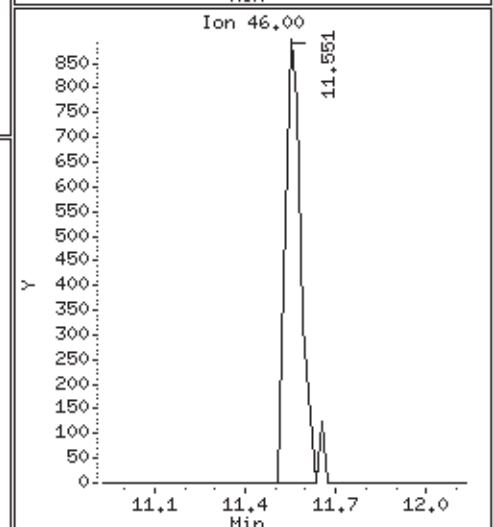
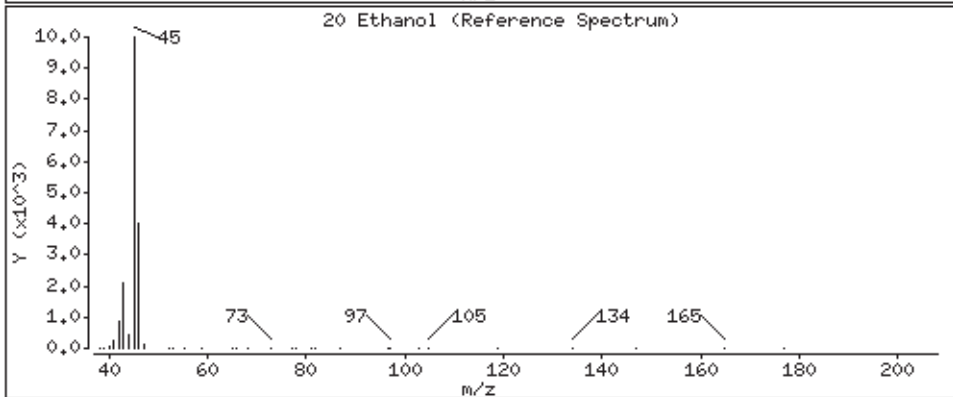
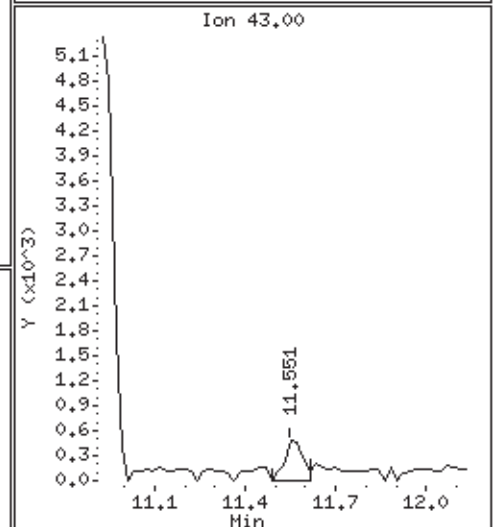
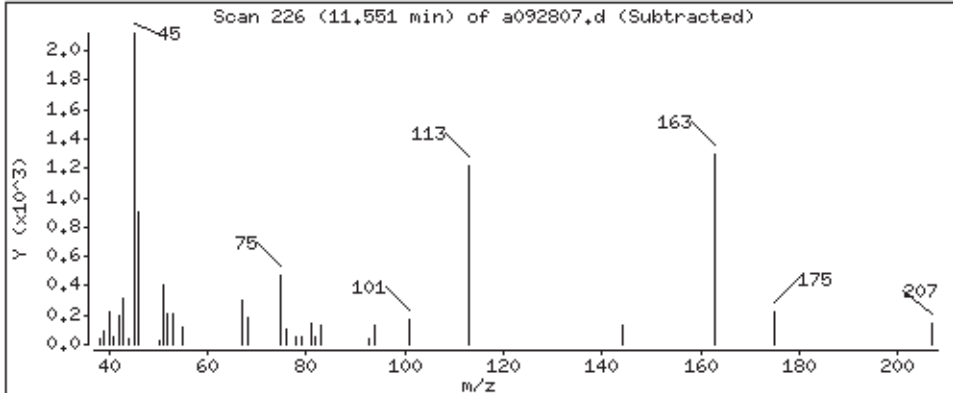
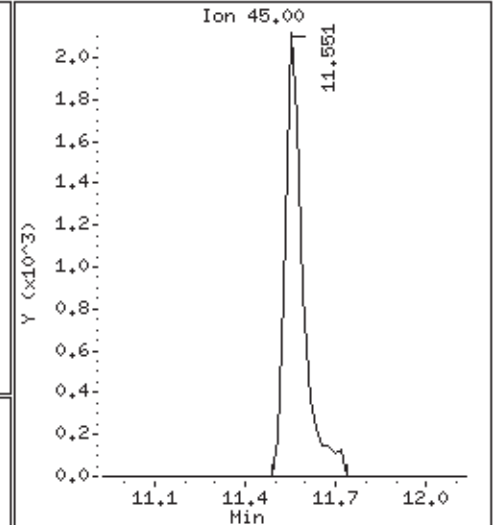
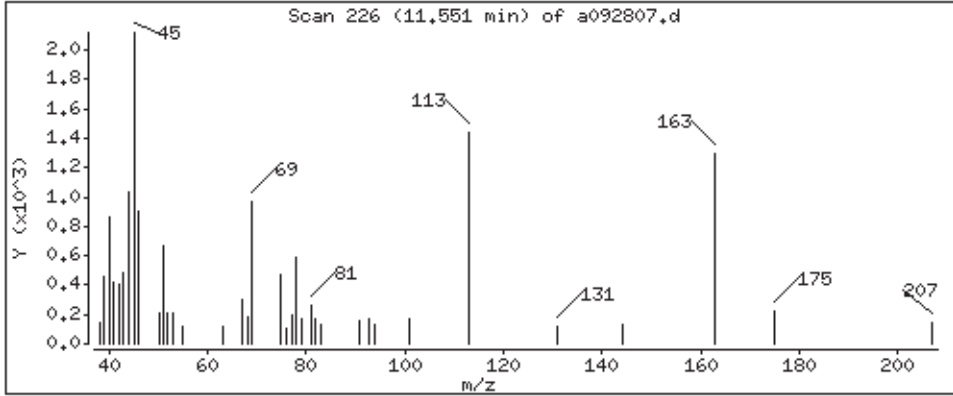
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 0.9722 PPBV



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda,i

Sample Info: 250ml #14012

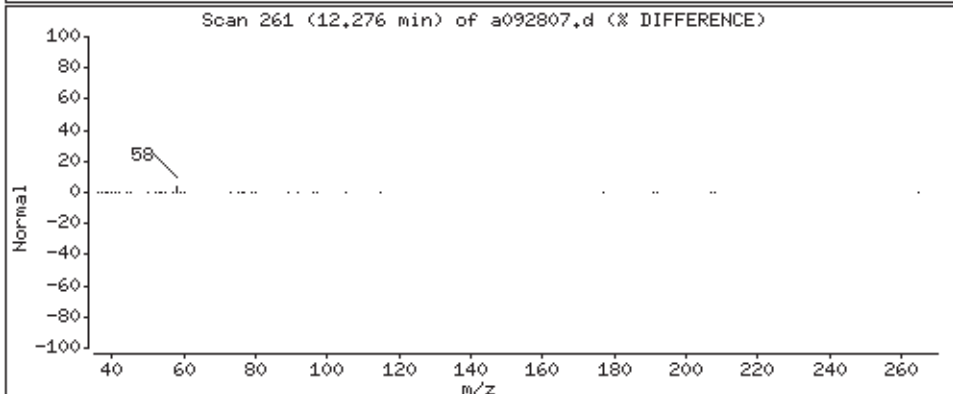
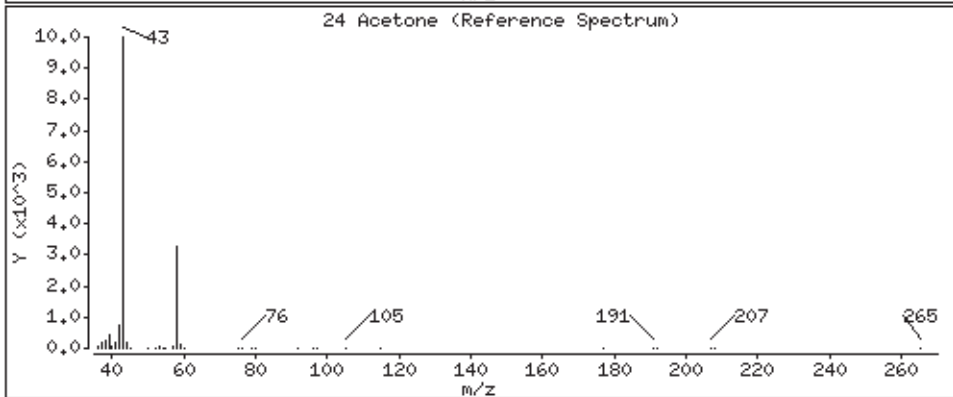
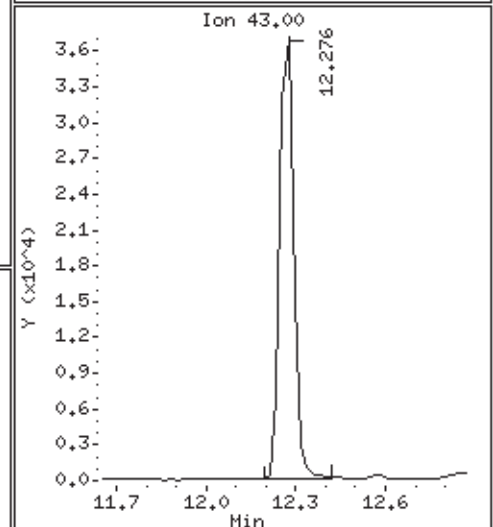
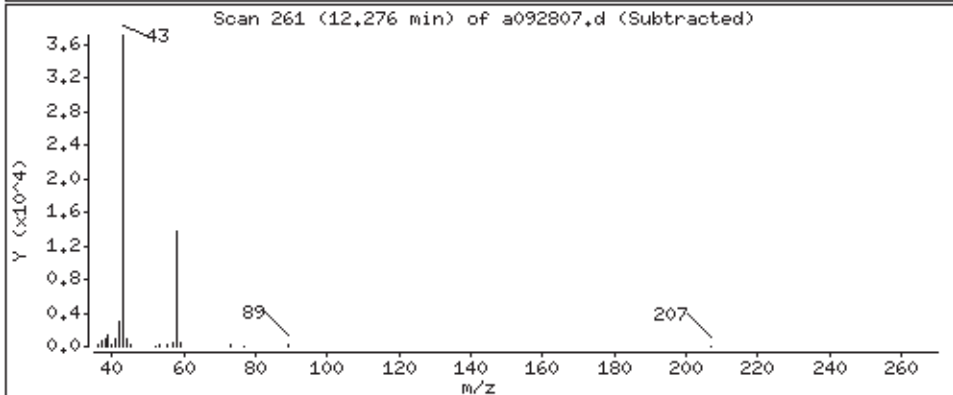
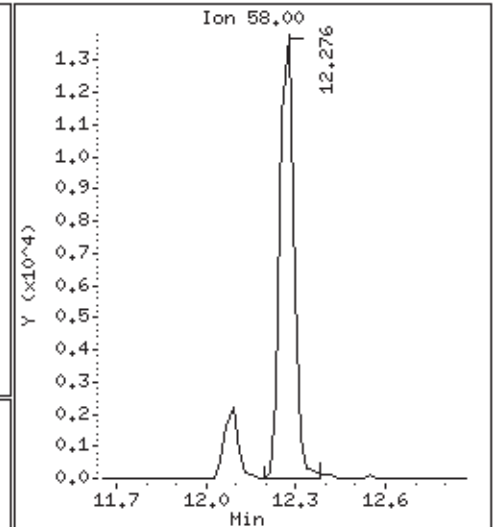
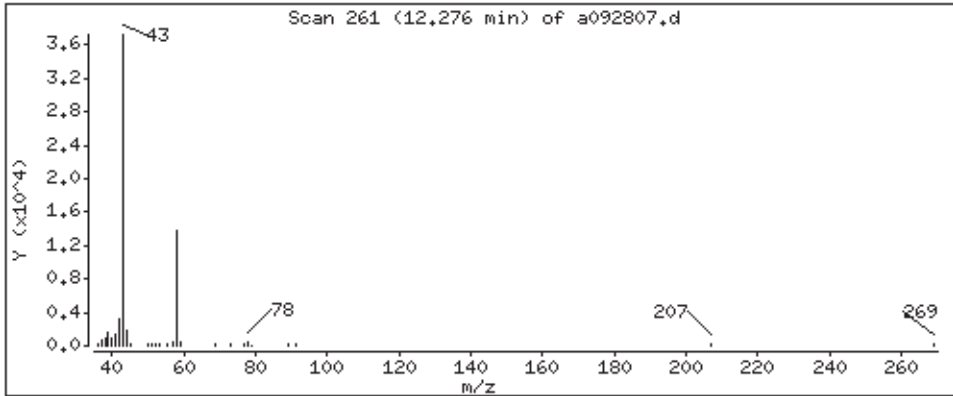
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 3.797 PPBV



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda.i

Sample Info: 250ml #14012

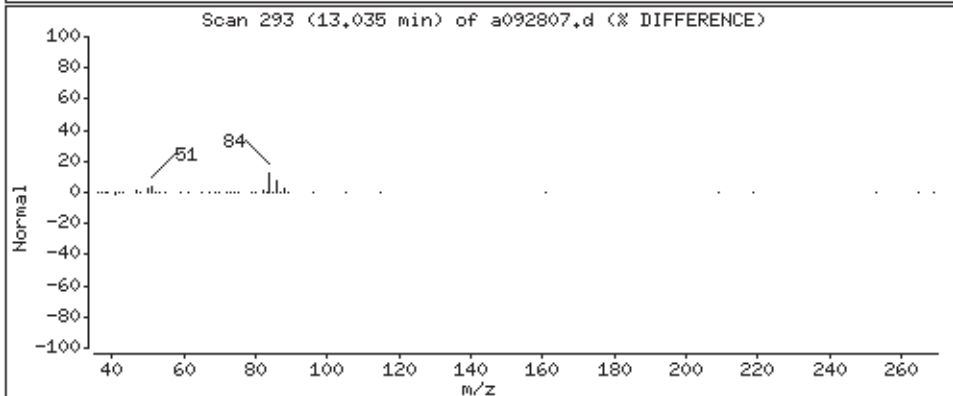
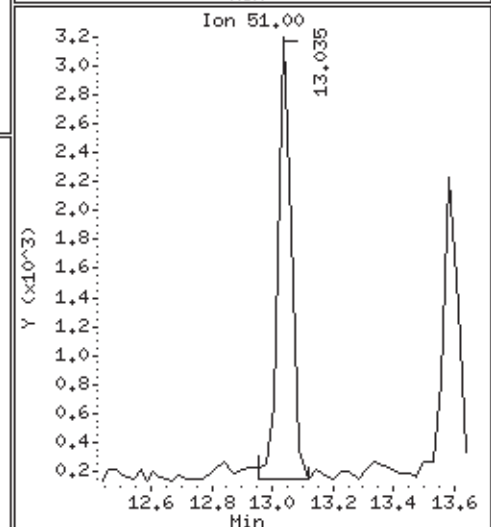
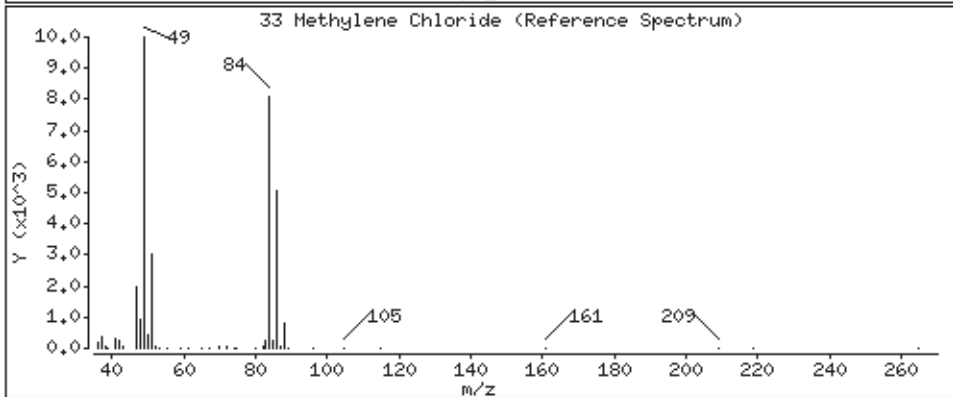
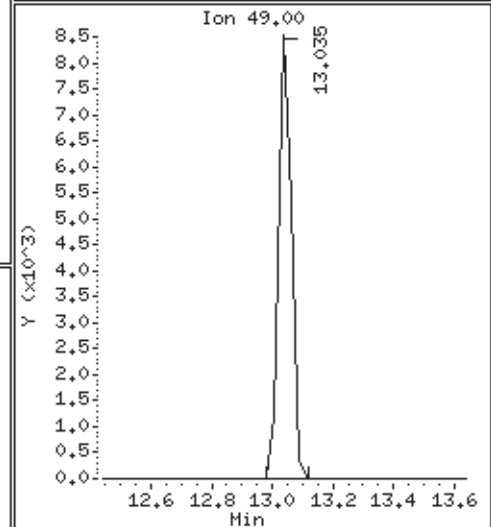
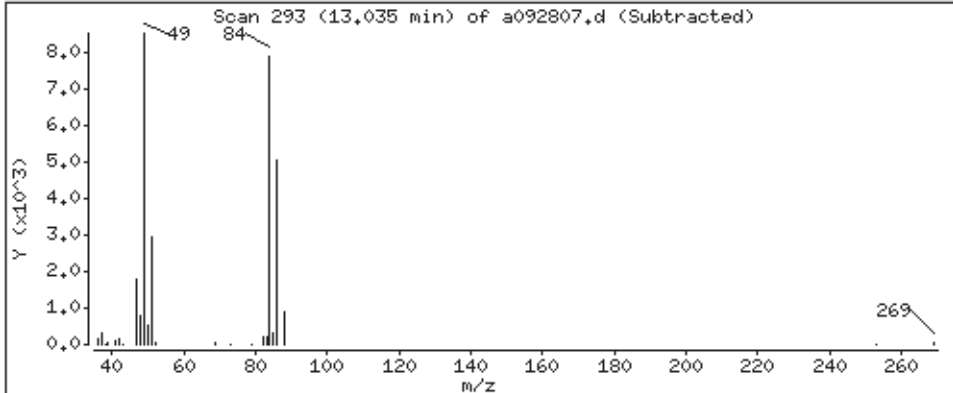
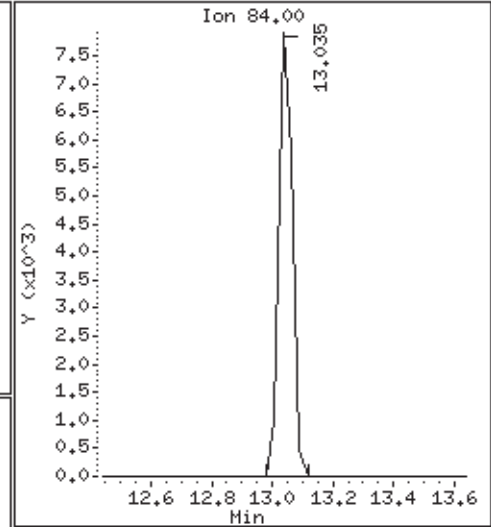
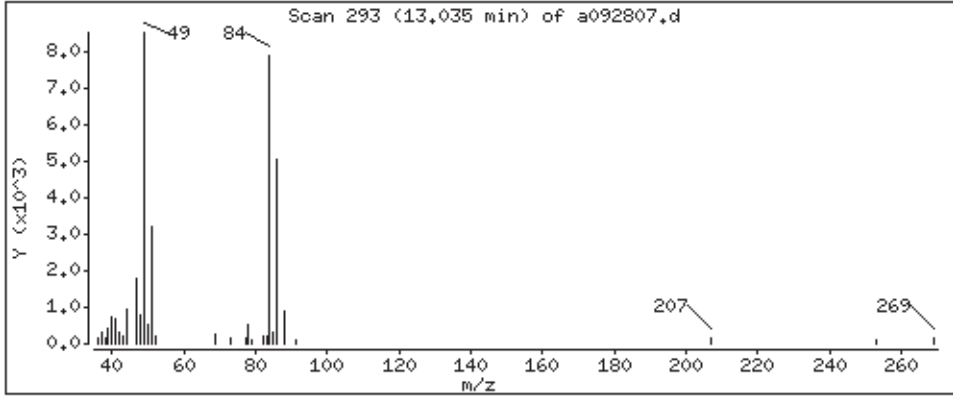
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

33 Methylene Chloride

Concentration: 0.9674 PPBV



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda,i

Sample Info: 250ml #14012

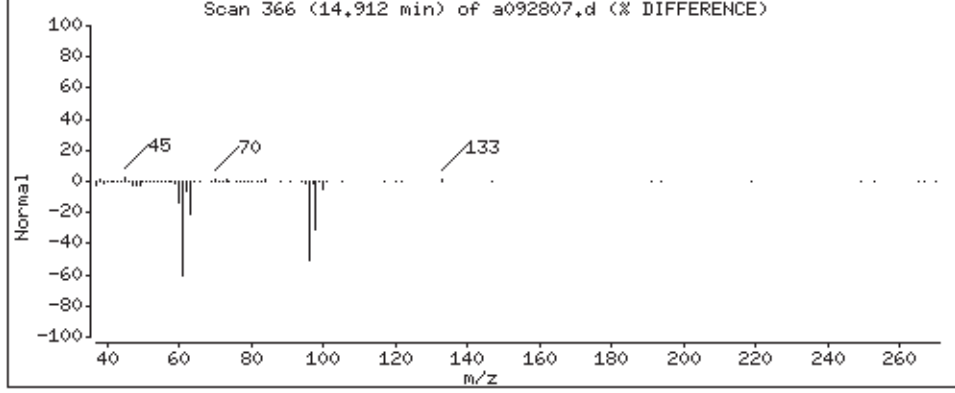
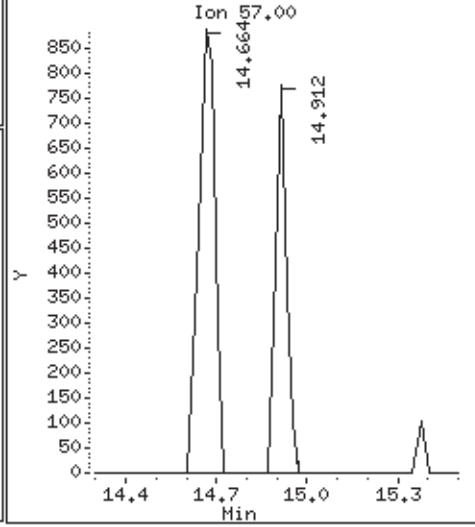
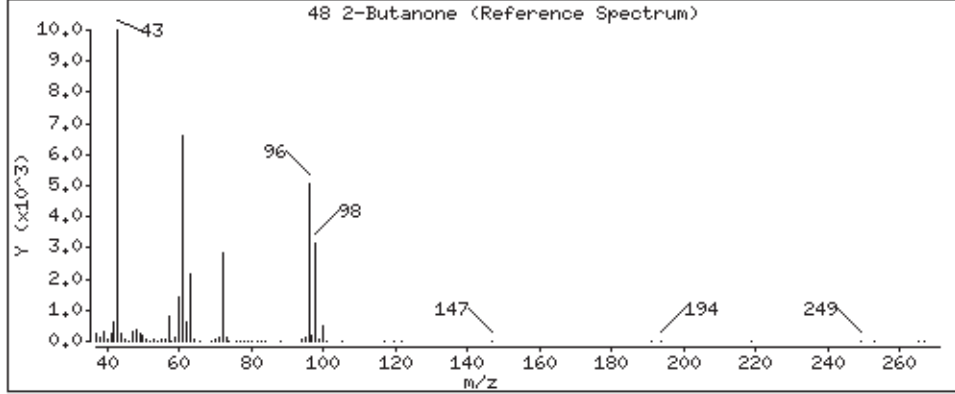
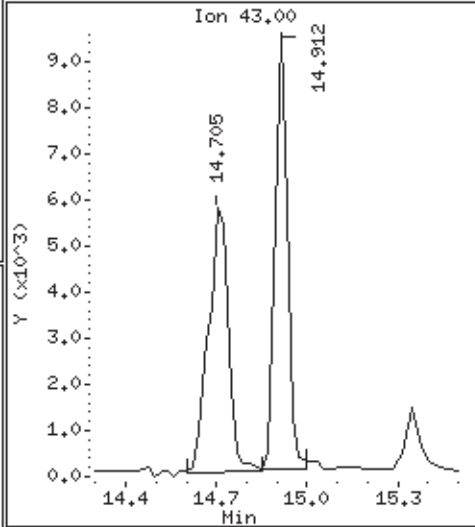
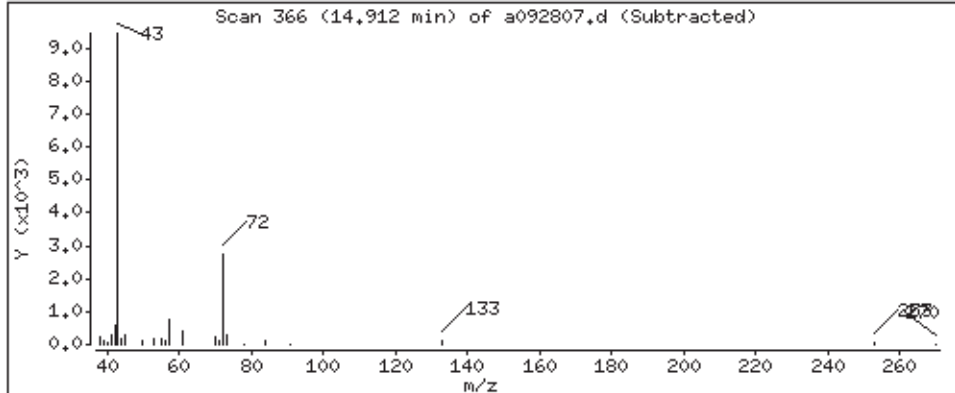
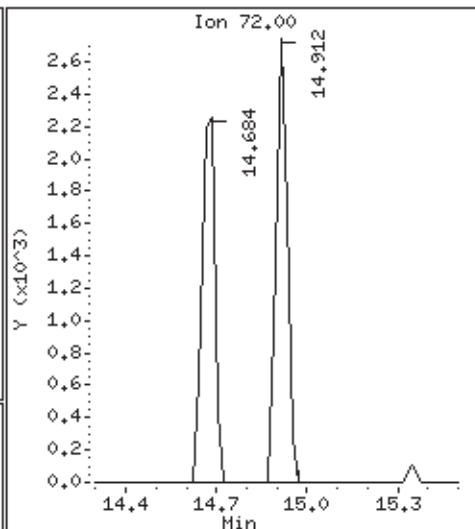
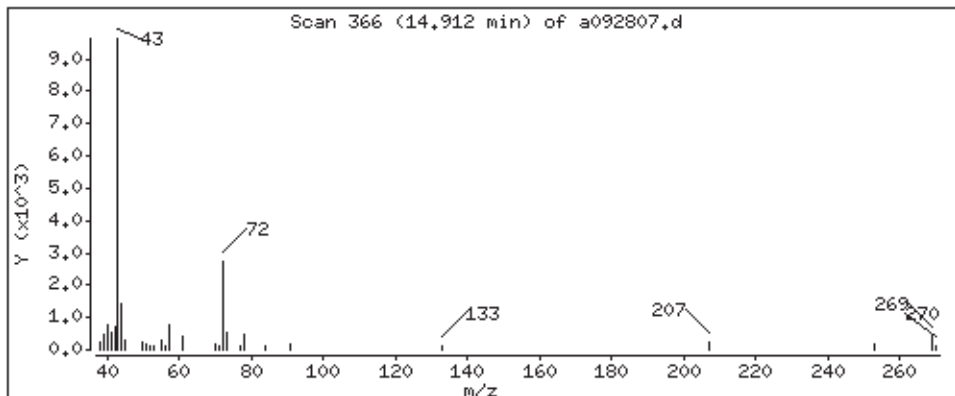
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 0.4363 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-4

Lab ID#: 1009208-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.090	0.045	0.23
Benzene	0.088	0.091	0.28	0.29
Toluene	0.035	0.10	0.13	0.39

Client Sample ID: ALF-4

Lab ID#: 1009208-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092807sim	Date of Collection:	9/7/10 3:13:00 PM
Dil. Factor:	1.75	Date of Analysis:	9/29/10 07:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.090	0.045	0.23
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Benzene	0.088	0.091	0.28	0.29
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Toluene	0.035	0.10	0.13	0.39
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	Not Detected	0.24	Not Detected
Ethyl Benzene	0.035	Not Detected	0.15	Not Detected
m,p-Xylene	0.070	Not Detected	0.30	Not Detected
o-Xylene	0.035	Not Detected	0.15	Not Detected
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092807sim.d
Lab Smp Id: 1009208-04B
Inj Date : 29-SEP-2010 07:11
Operator : cr Inst ID: msda.i
Smp Info : 250ml #14012
Misc Info : 7.0"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.267	15.269	(1.000)	130	348465	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	269831				0.00- 30.00	77.43
15.267	15.269	(1.000)	49	395009				0.00- 30.00	113.36

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.082	16.084	(1.053)	65	457647	8.87299	8.873		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	248128				0.00- 30.00	54.22

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.659	16.661	(1.000)	114	1427736	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	229015				0.00- 46.17	16.04

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.223	19.225	(1.154)	98	1264074	9.93295	9.933		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	142912				0.00- 41.52	11.31
19.223	19.225	(1.154)	100	848265				36.81- 96.81	67.11

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.467	21.469	(1.000)	117	1326786	10.0000			80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL	FINAL			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 56 Chlorobenzene-d5 (continued)									
21.467	21.469	(1.000)	82	708515			0.00-	30.00	53.40

\$ 66 Bromofluorobenzene									
									CAS #: 460-00-4
22.919	22.922	(1.068)	174	695734	10.4041	10.404	80.00-	120.00	100.00
22.919	22.922	(1.068)	95	903330			100.82-	160.82	129.84
22.919	22.922	(1.068)	176	675389			66.99-	126.99	97.08

5 Vinyl Chloride									
									CAS #: 75-01-4
7.947	7.897	(0.520)	62	2783	0.05166	0.09040	80.00-	120.00	100.00
7.426	7.897	(0.486)	64	699			1.85-	61.85	25.13

36 Benzene									
									CAS #: 71-43-2
16.110	16.112	(0.967)	78	9509	0.05219	0.09134	80.00-	120.00	100.00
16.110	16.112	(0.967)	77	2903			0.00-	30.00	30.53

48 Toluene									
									CAS #: 108-88-3
19.335	19.337	(1.161)	91	11799	0.05915	0.1035	80.00-	120.00	100.00
19.357	19.337	(1.162)	92	7024			30.39-	90.39	59.53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-04B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 7.0"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.873	88.73	70-130
\$ 47 Toluene-d8	10.000	9.933	99.33	70-130
\$ 66 Bromofluorobenzene	10.000	10.404	104.04	70-130

Data File: /chem/msda.i/28Sep2010.b/a092807sim.d

Date: 29-SEP-2010 07:11

Client ID:

Sample Info: 250ml #14012

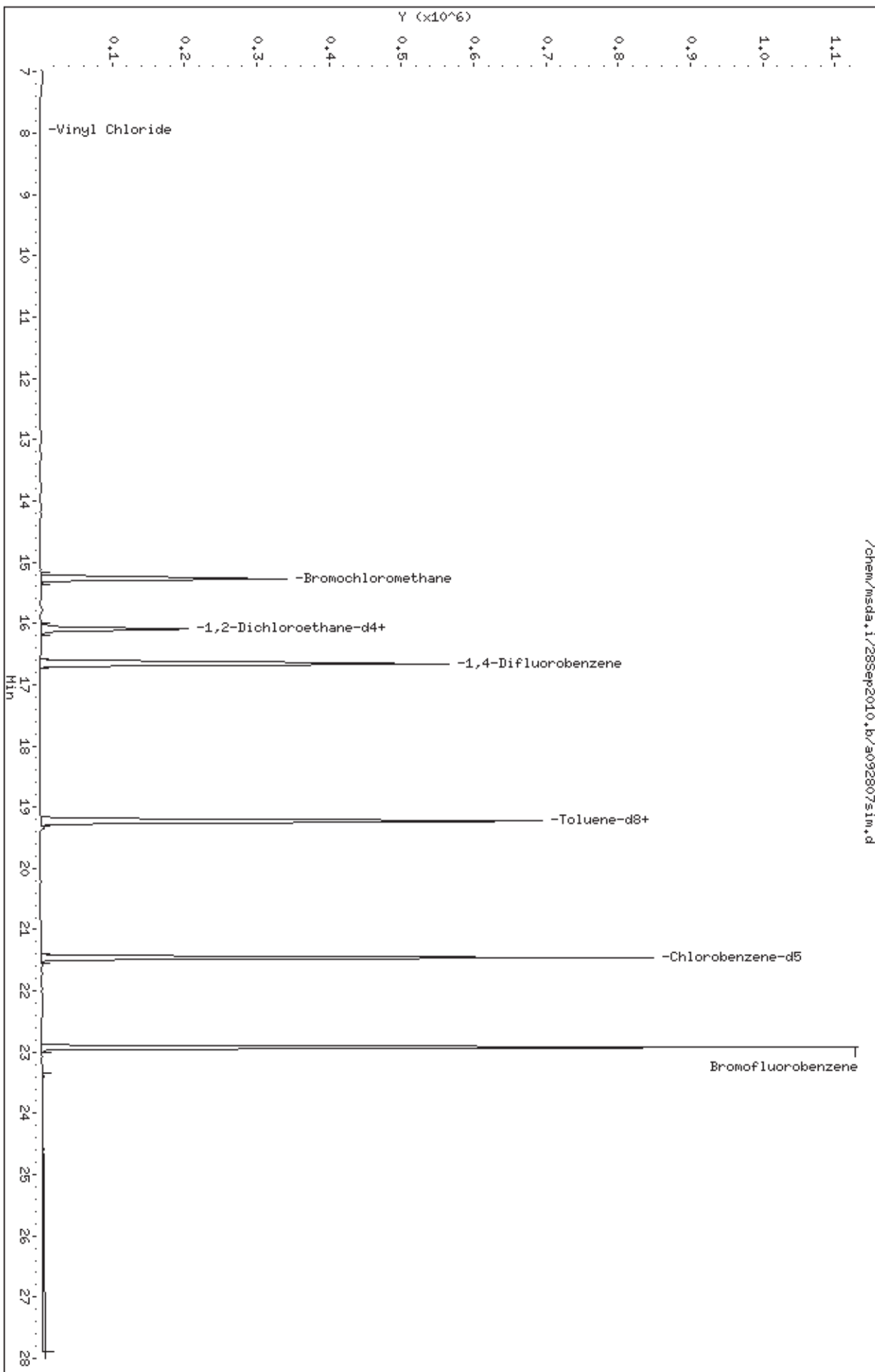
Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53

Page 1



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda.i

Sample Info: 250ml #14012

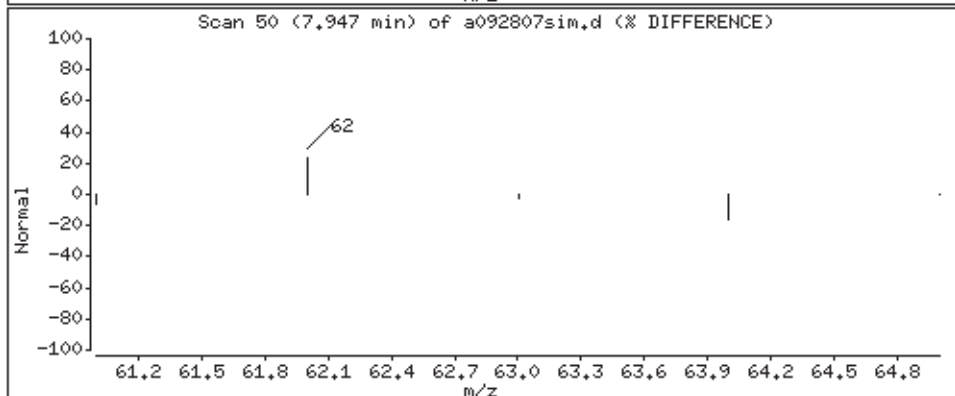
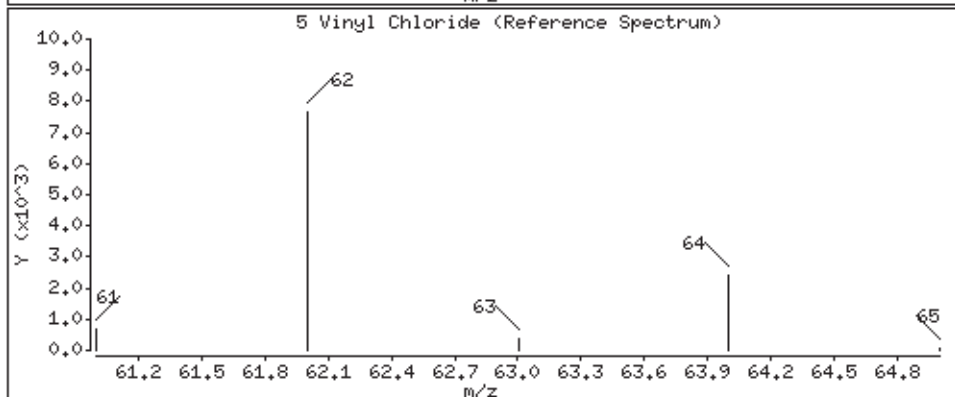
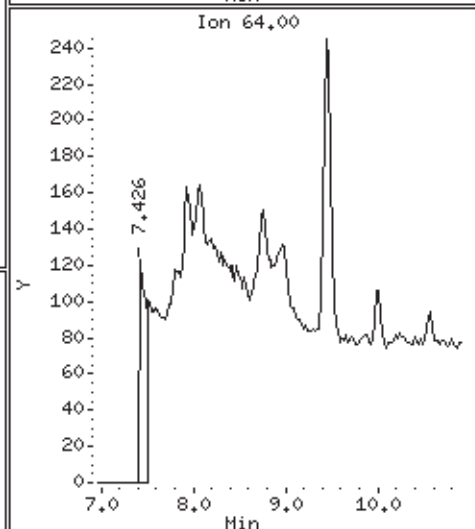
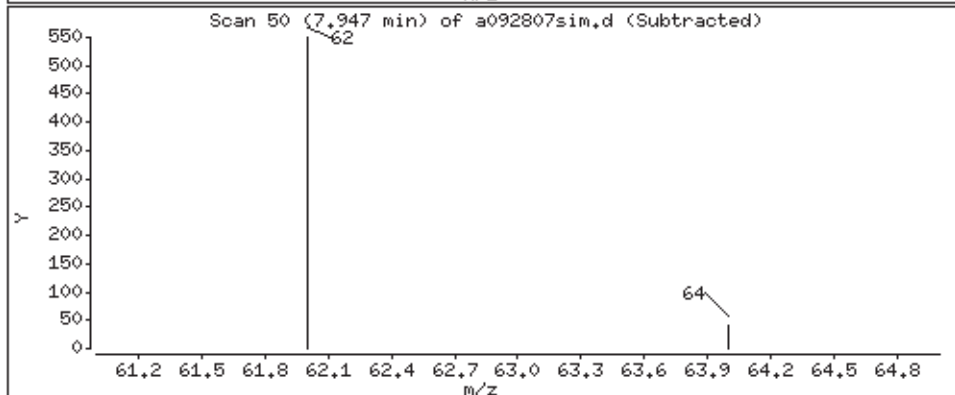
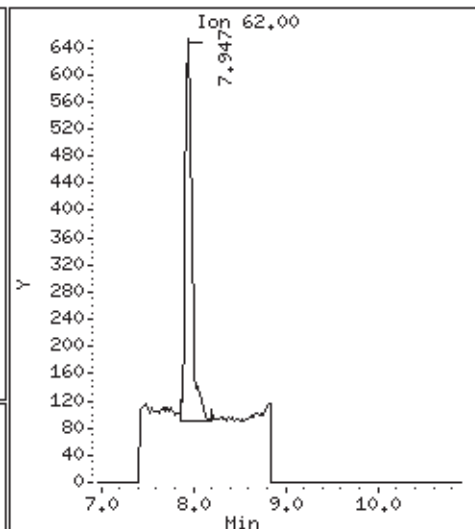
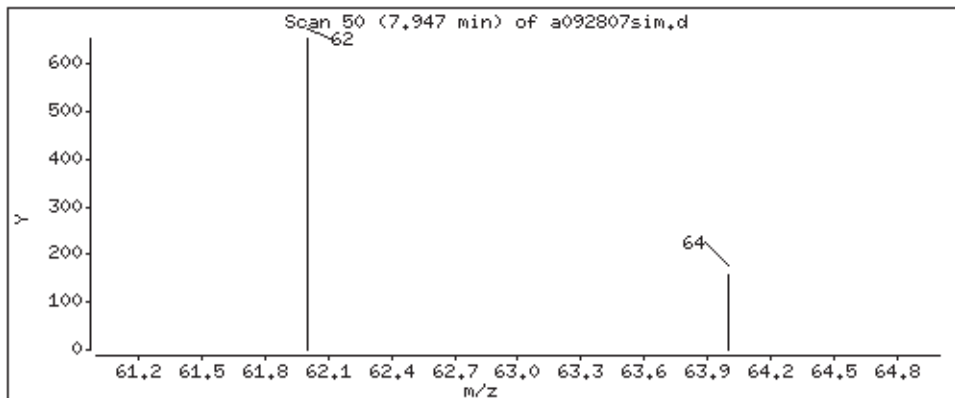
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.09040 PPBV



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda.i

Sample Info: 250ml #14012

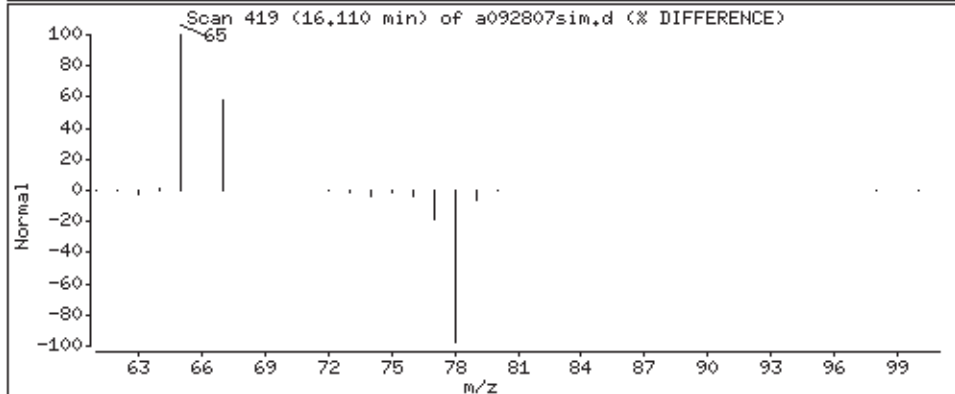
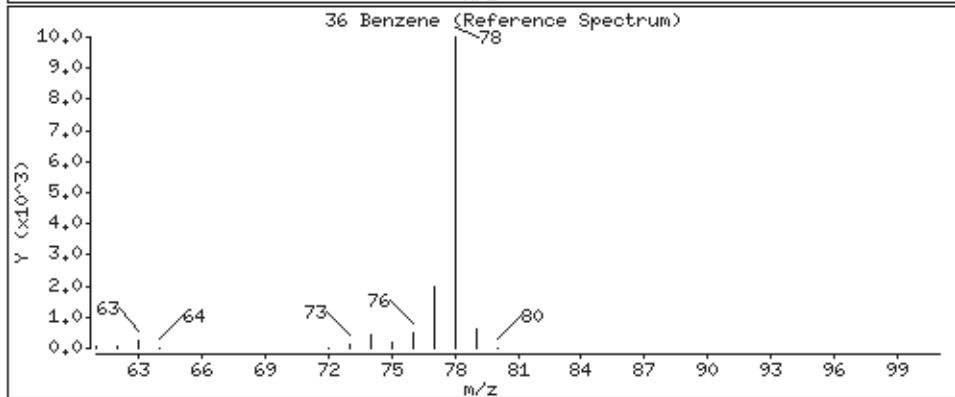
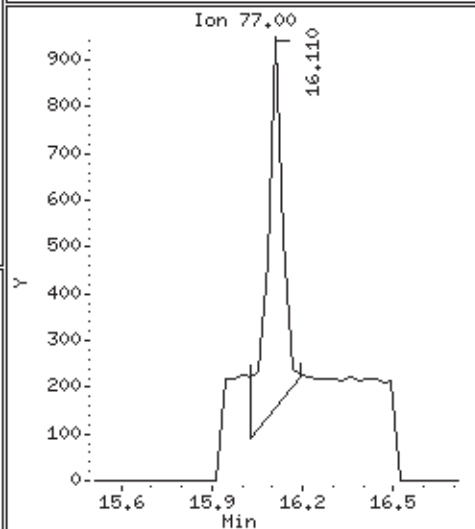
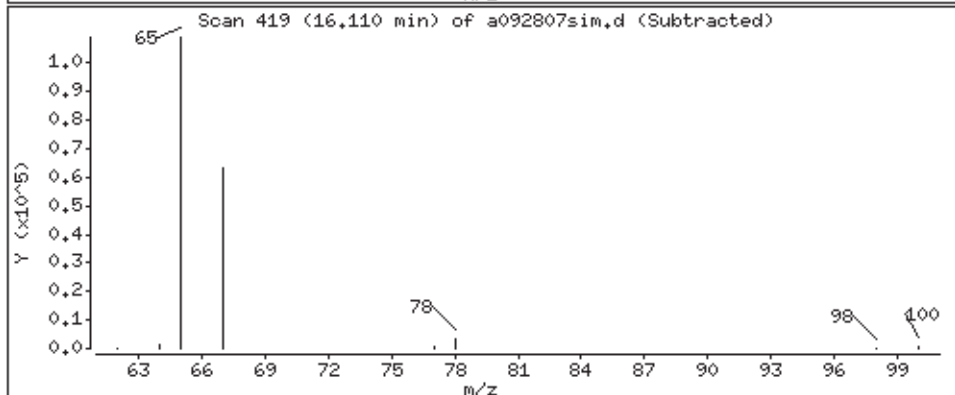
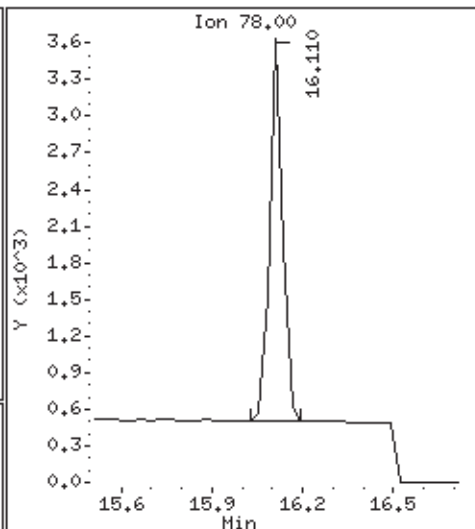
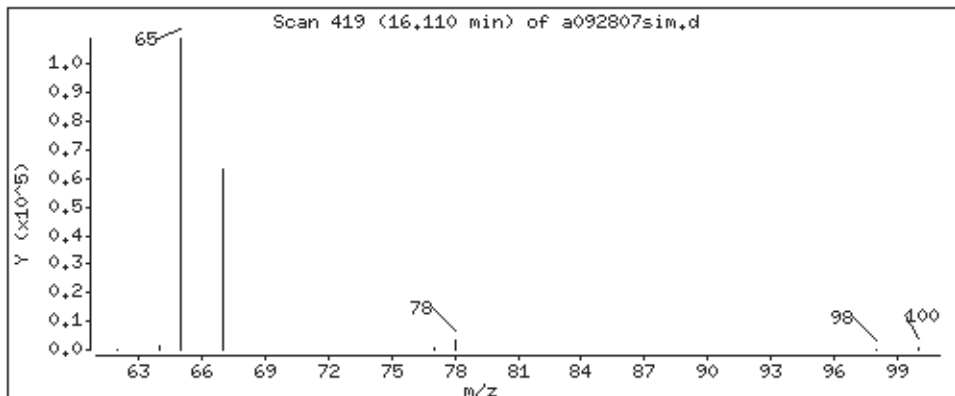
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

36 Benzene

Concentration: 0.09134 PPBV



Date : 29-SEP-2010 07:11

Client ID:

Instrument: msda.i

Sample Info: 250ml #14012

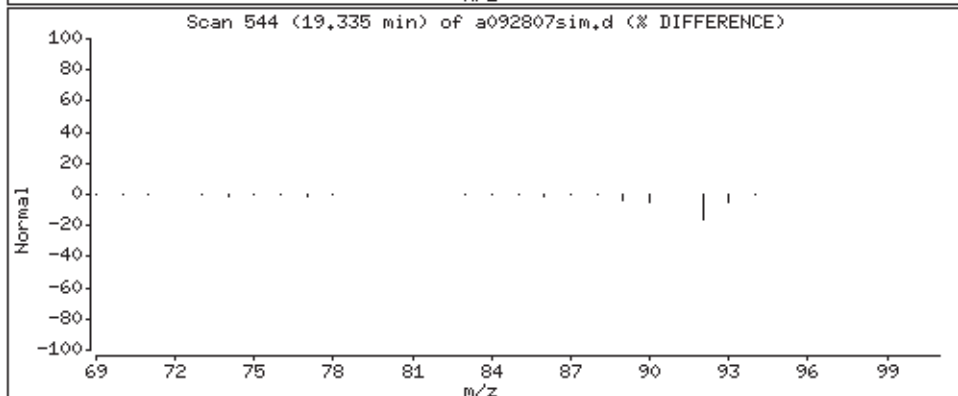
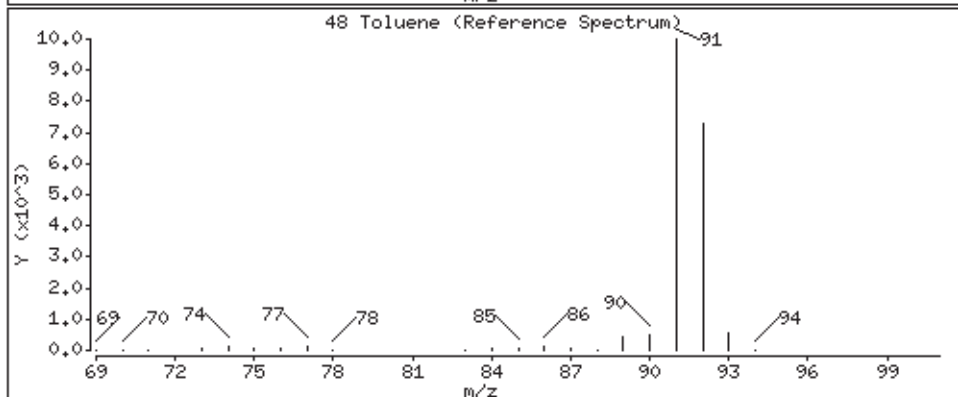
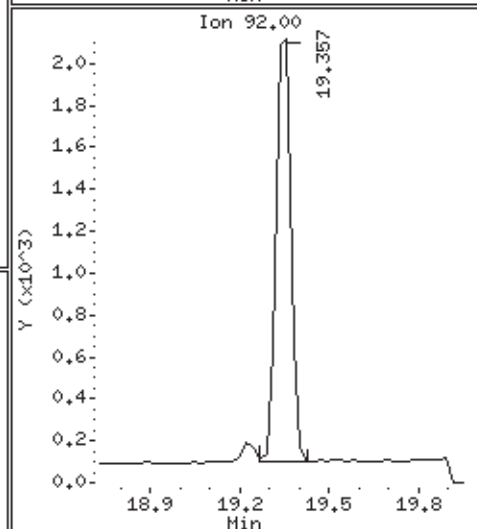
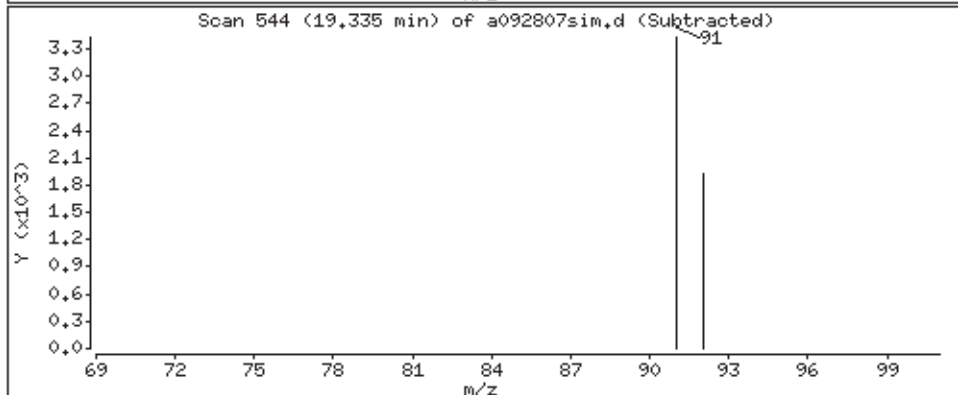
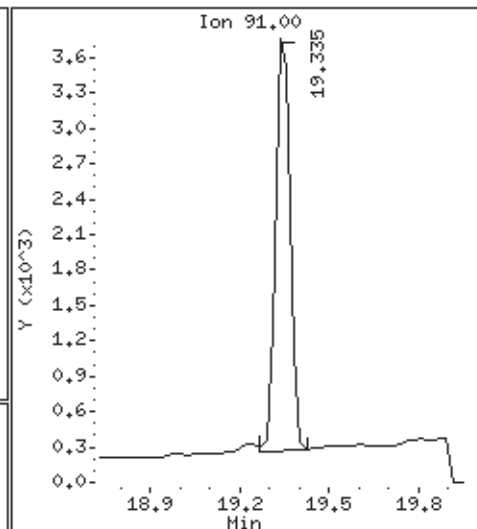
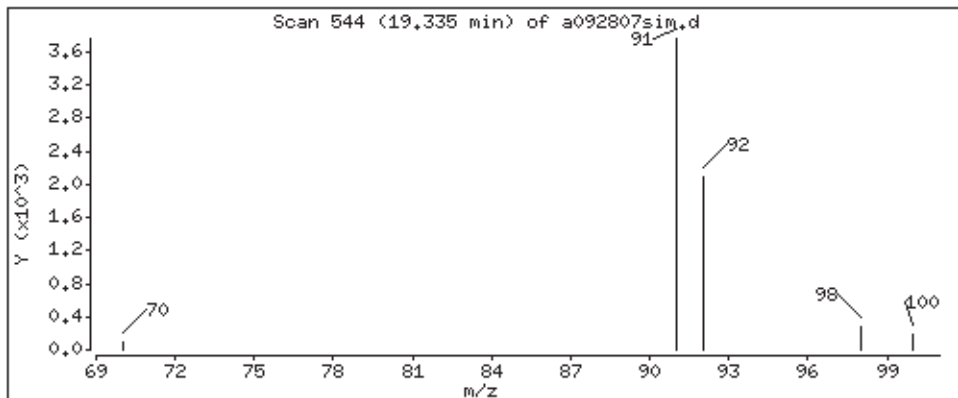
Operator: cr

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.1035 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-5

Lab ID#: 1009208-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.18	0.20	1.0	1.1
Ethanol	0.90	1.0	1.7	1.9
Acetone	0.90	3.6	2.1	8.4
2-Butanone (Methyl Ethyl Ketone)	0.18	0.32	0.53	0.94

Client Sample ID: ALF-5

Lab ID#: 1009208-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092808	Date of Collection:	9/7/10 3:16:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/29/10 08:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.18	Not Detected	0.37	Not Detected
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.18	Not Detected	0.70	Not Detected
Chloroethane	0.18	Not Detected	0.47	Not Detected
Freon 11	0.18	0.20	1.0	1.1
Ethanol	0.90	1.0	1.7	1.9
Freon 113	0.18	Not Detected	1.4	Not Detected
Acetone	0.90	3.6	2.1	8.4
2-Propanol	0.90	Not Detected	2.2	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Hexane	0.18	Not Detected	0.63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.18	0.32	0.53	0.94
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.87	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Heptane	0.18	Not Detected	0.73	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.4	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.88	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected

Client Sample ID: ALF-5

Lab ID#: 1009208-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092808	Date of Collection:	9/7/10 3:16:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/29/10 08:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.90	Not Detected	6.6	Not Detected
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092808.d
Lab Smp Id: 1009208-05A
Inj Date : 29-SEP-2010 08:06
Operator : cr
Smp Info : 250ml #31148
Misc Info : 7.5"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m
Meth Date : 29-Sep-2010 11:04 croush
Cal Date : 20-SEP-2010 20:09
Als bottle: 32
Dil Factor: 1.79000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore
Inst ID: msda.i
Quant Type: ISTD
Cal File: a092015.d
Compound Sublist: EXPO14301.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.253	15.255	(1.000)	130	363081	10.0000			80.00- 120.00	100.00
15.253	15.255	(1.000)	128	281169				48.35- 108.35	77.44
15.253	15.255	(1.000)	49	391818				89.31- 149.31	107.91

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.645	16.647	(1.000)	114	1513380	10.0000			80.00- 120.00	100.00
16.645	16.647	(1.000)	88	244790				0.00- 46.24	16.18

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.454	21.456	(1.000)	117	1406561	10.0000			80.00- 120.00	100.00
21.454	21.456	(1.000)	82	771066				25.95- 85.95	54.82

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.096	16.098	(1.055)	65	449677	8.52079	8.521		80.00- 120.00	100.00
16.096	16.098	(1.055)	67	245279				0.00- 30.00	54.55

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.232	19.211	(1.155)	98	1466943	9.51708	9.517		80.00- 120.00	100.00
19.209	19.211	(1.154)	70	161668				0.00- 30.00	11.02

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.232	19.211	(1.155)	100	992422			37.86-	97.86	67.65

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.932	22.934	(1.069)	174	715428	9.95479	9.955	80.00-	120.00	100.00
22.932	22.934	(1.069)	95	927576			98.89-	158.89	129.65
22.932	22.934	(1.069)	176	697020			67.15-	127.15	97.43

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.722	10.724	(0.703)	101	15180	0.11191	0.2003	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	9930			35.14-	95.14	65.42

20 Ethanol CAS #: 64-17-5									
11.551	11.532	(0.757)	45	9161	0.56315	1.008	80.00-	120.00	100.00
11.572	11.532	(0.759)	43	3036			0.00-	30.00	33.14
11.572	11.532	(0.759)	46	3867			0.00-	30.00	42.22

24 Acetone CAS #: 67-64-1									
12.276	12.258	(0.805)	58	42826	1.98496	3.553	80.00-	120.00	100.00
12.276	12.258	(0.805)	43	117562			0.00-	30.00	274.51

48 2-Butanone CAS #: 78-93-3									
14.913	14.915	(0.978)	72	5283	0.17748	0.3177	80.00-	120.00	100.00
14.913	14.915	(0.978)	43	21058			0.00-	30.00	398.60
14.913	14.915	(0.978)	57	1519			0.00-	30.00	28.76

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092808.d
Lab Smp Id: 1009208-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 7.5"Hg - 5psi

Calibration Date: 28-SEP-2010
Calibration Time: 19:58
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	363081	3.29
66 1,4-Difluorobenze	1417041	850225	1983857	1513380	6.80
88 Chlorobenzene-d5	1320371	792223	1848519	1406561	6.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-05A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 7.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.521	85.21	70-130
\$ 80 Toluene-d8	10.000	9.517	95.17	70-130
\$ 100 Bromofluorobenzene	10.000	9.955	99.55	70-130

Date : 29-SEP-2010 08:06

Client ID:

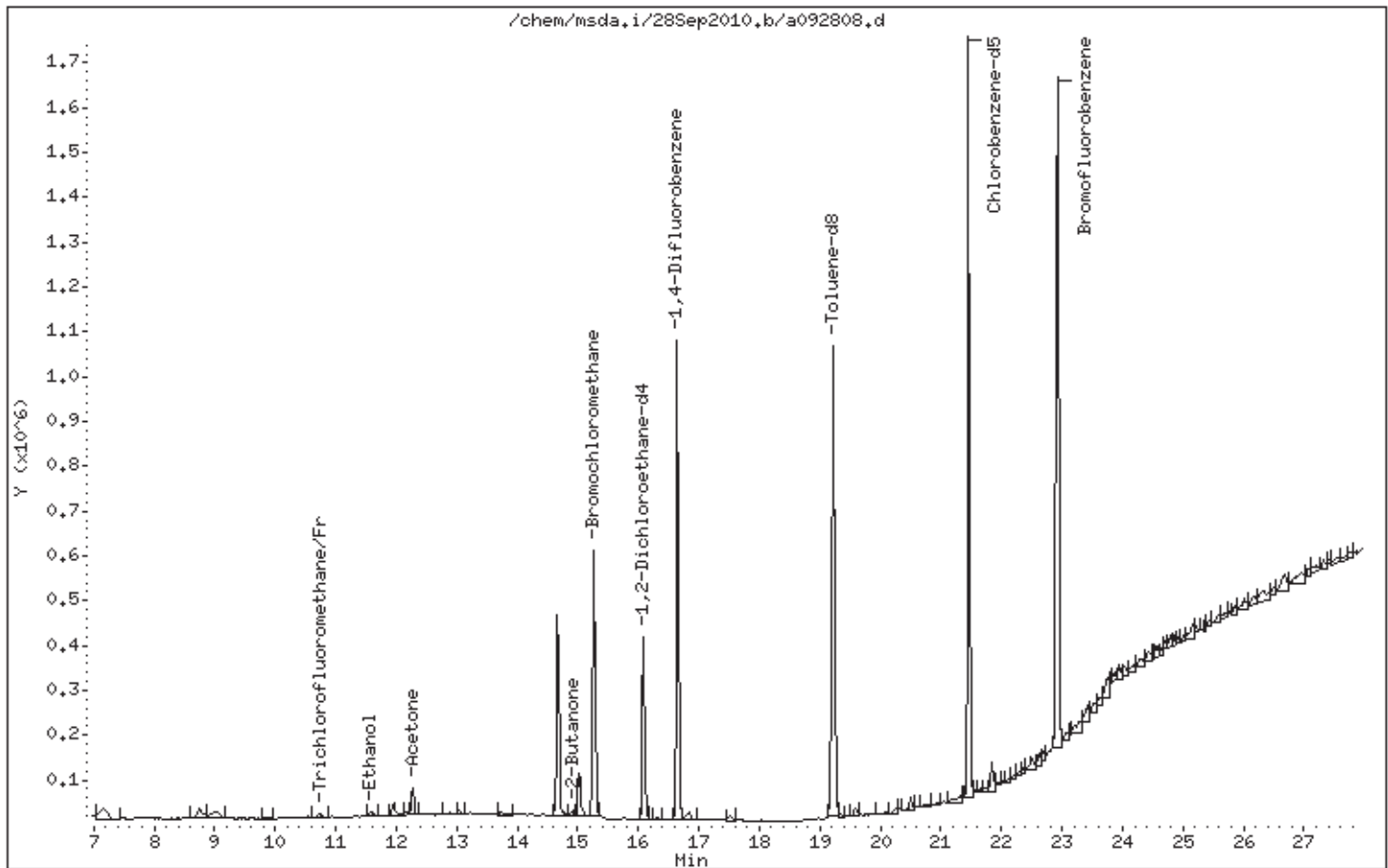
Instrument: msda,i

Sample Info: 250ml #31148

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Date : 29-SEP-2010 08:06

Client ID:

Instrument: msda.i

Sample Info: 250ml #31148

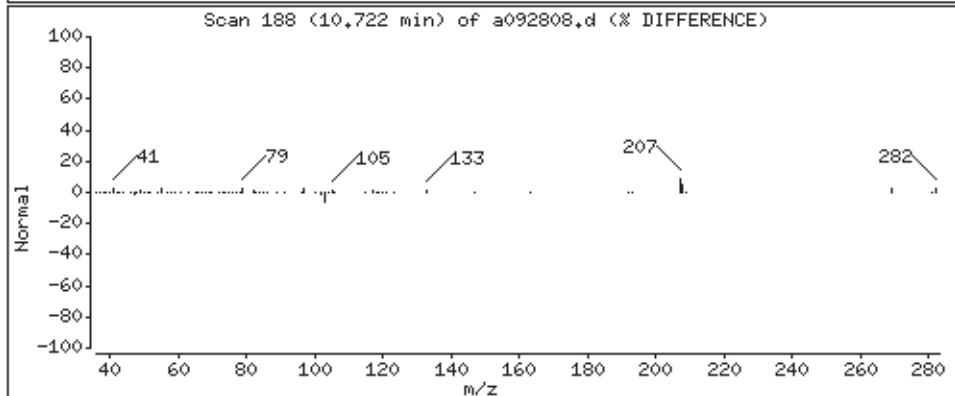
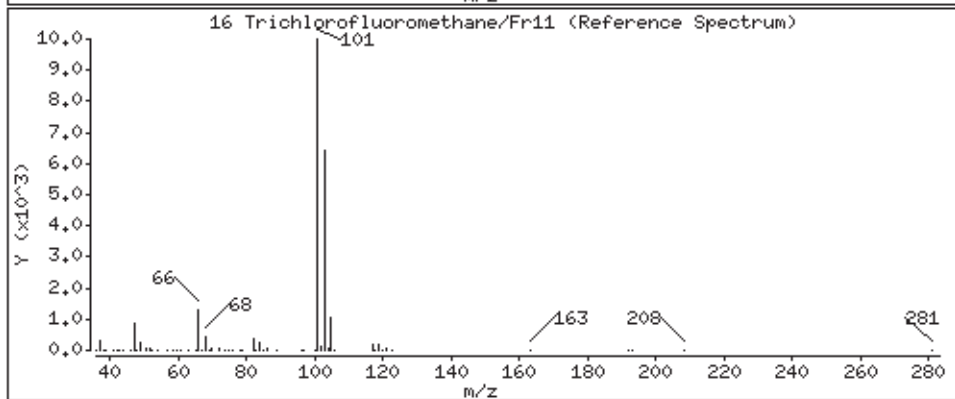
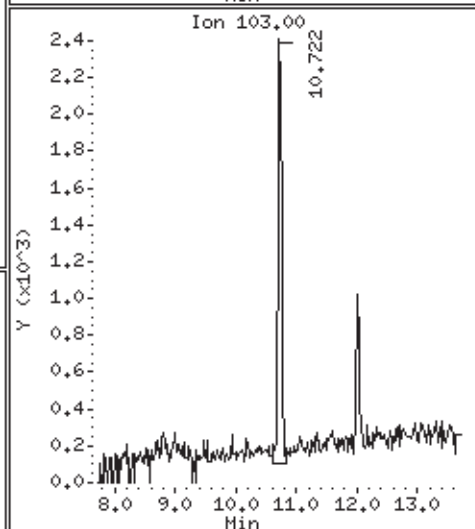
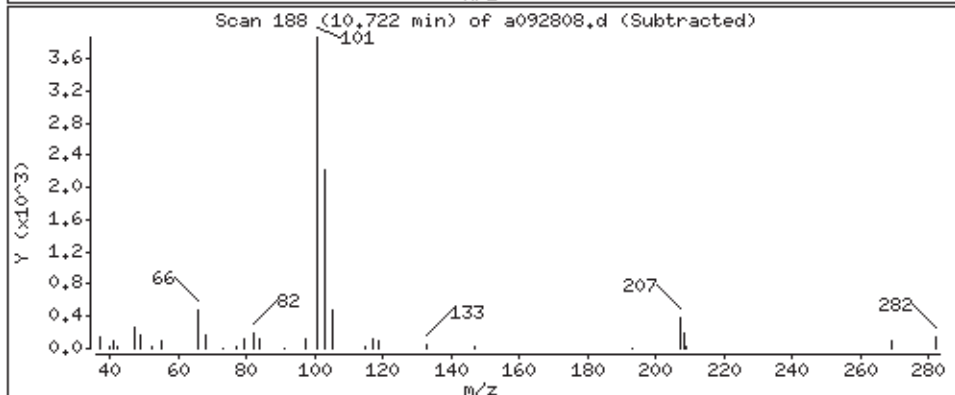
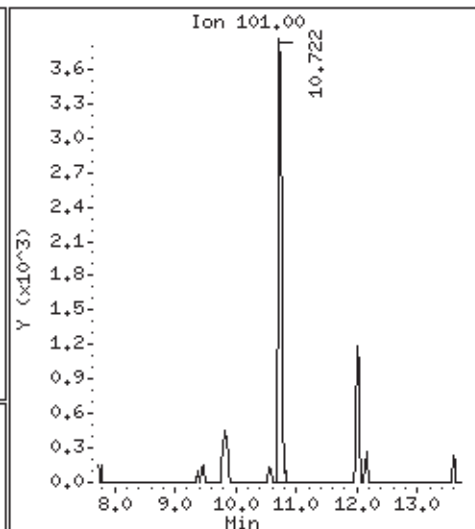
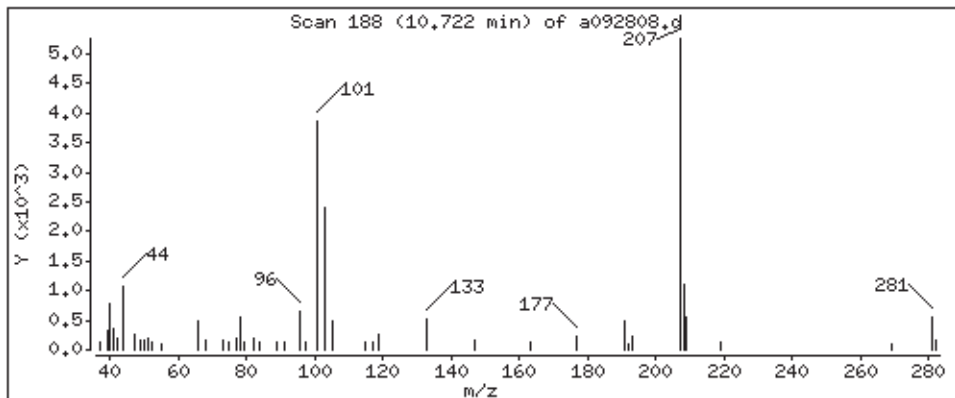
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.2003 PPBV



Date : 29-SEP-2010 08:06

Client ID:

Instrument: msda.i

Sample Info: 250ml #31148

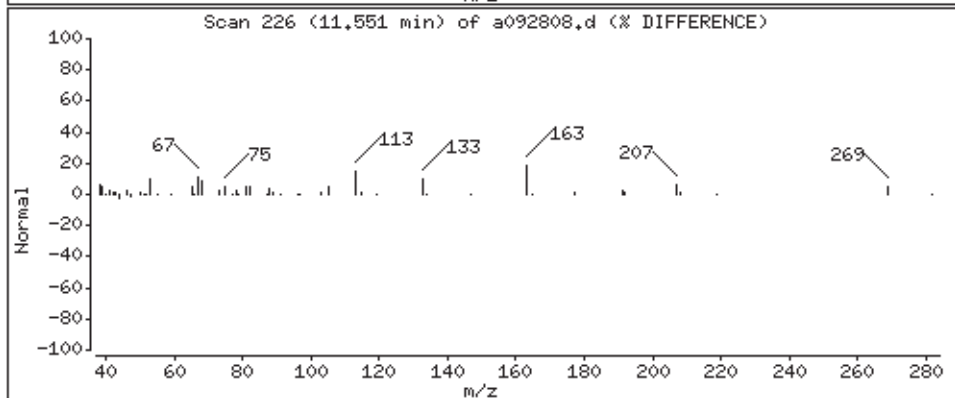
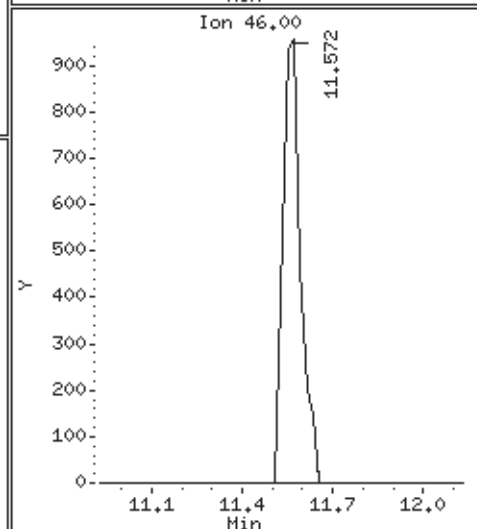
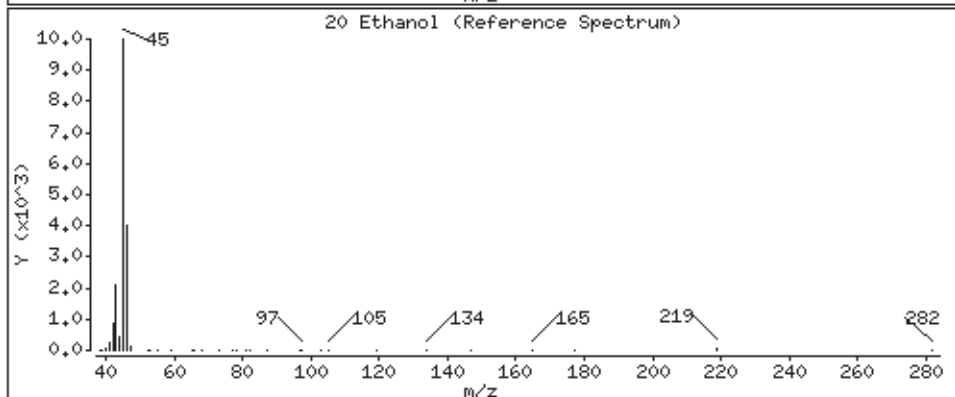
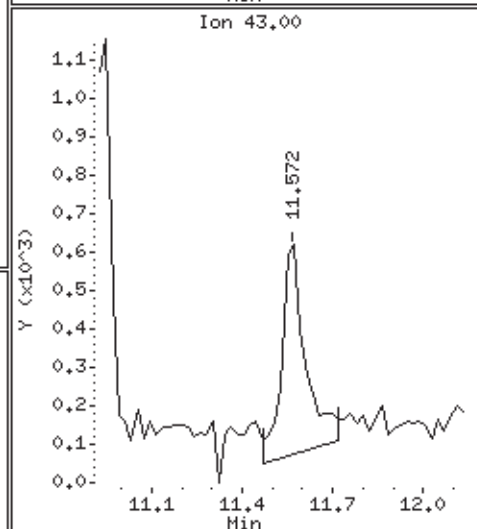
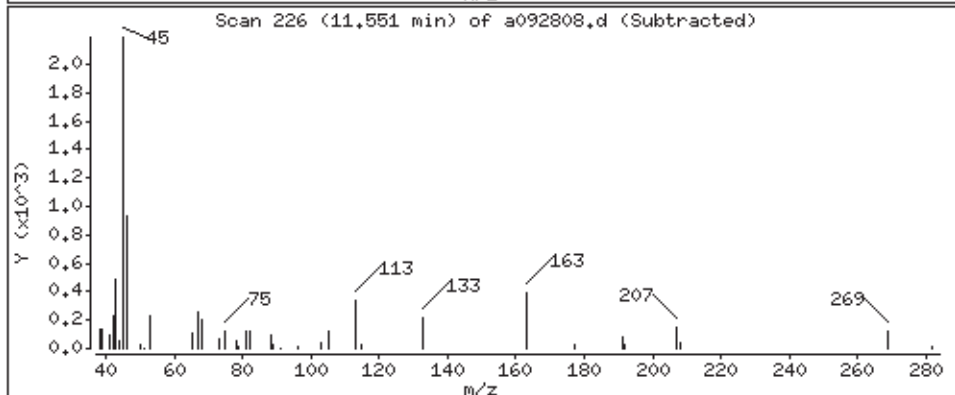
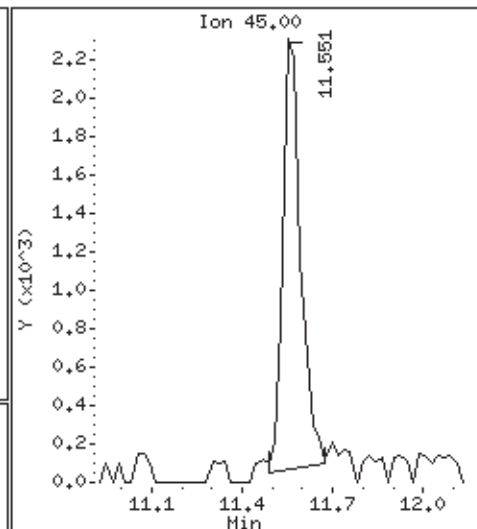
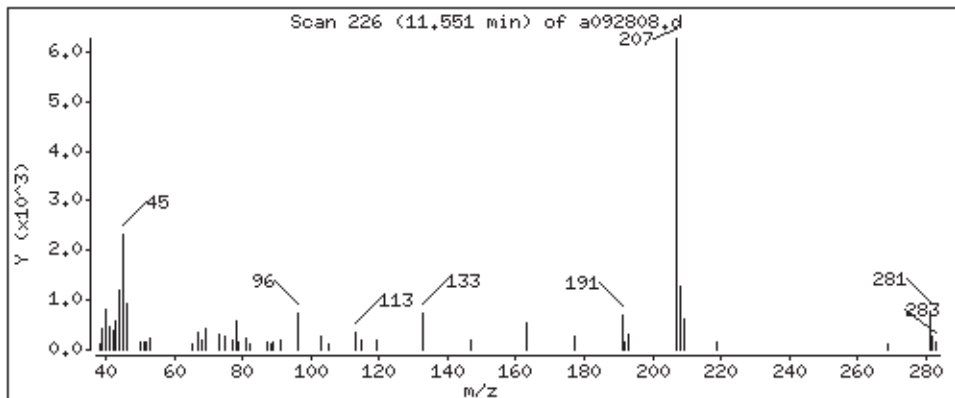
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 1,008 PPBV



Date : 29-SEP-2010 08:06

Client ID:

Instrument: msda.i

Sample Info: 250ml #31148

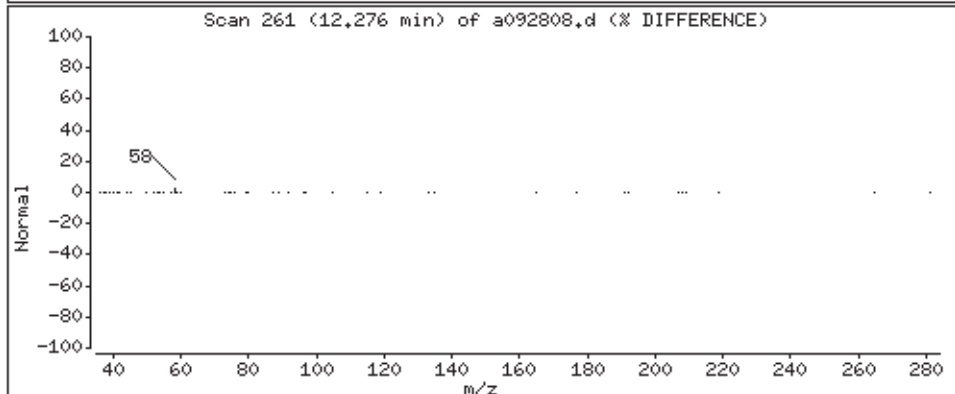
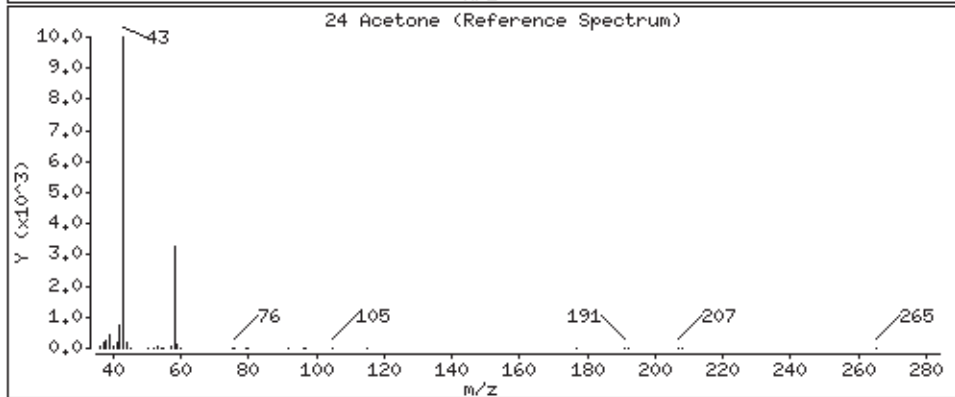
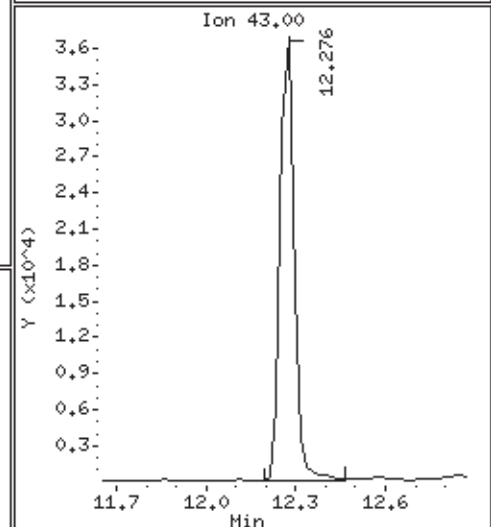
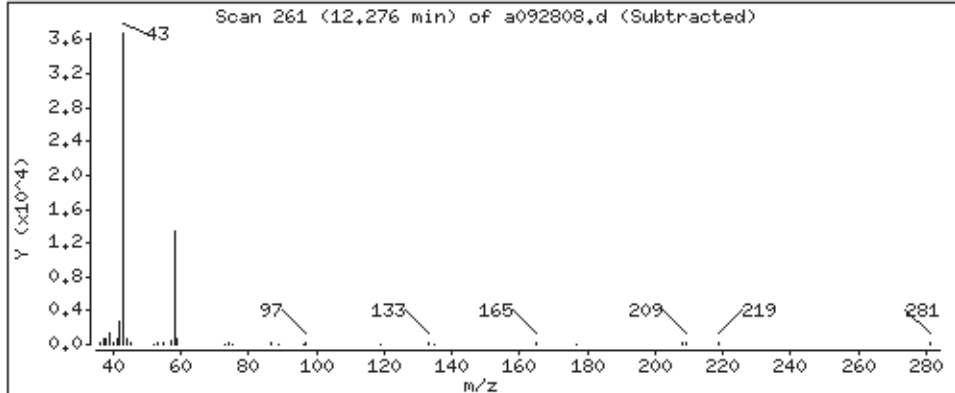
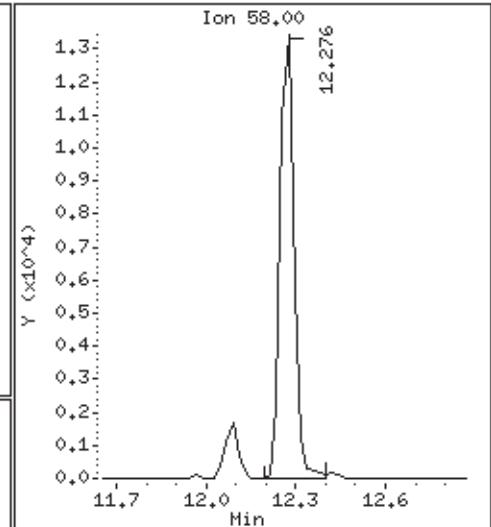
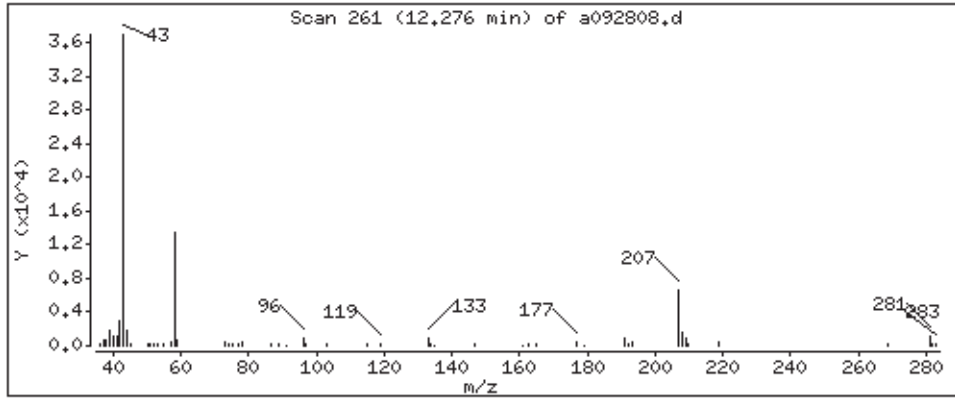
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 3.553 PPBV



Date : 29-SEP-2010 08:06

Client ID:

Instrument: msda.i

Sample Info: 250ml #31148

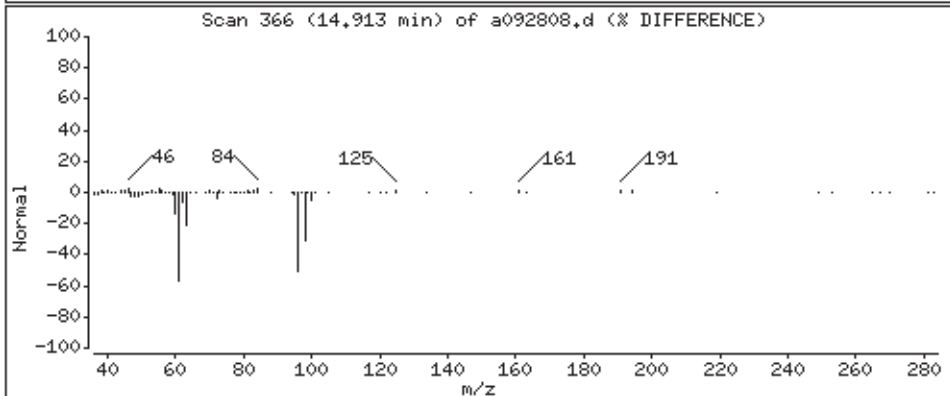
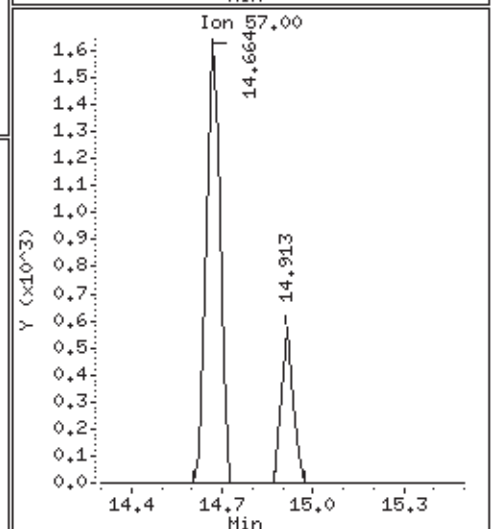
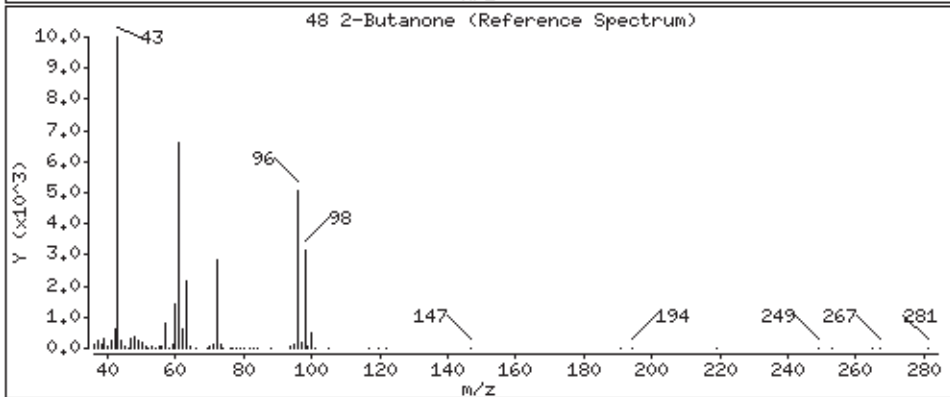
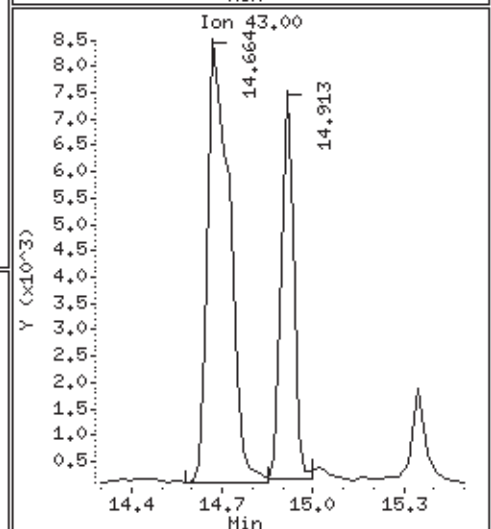
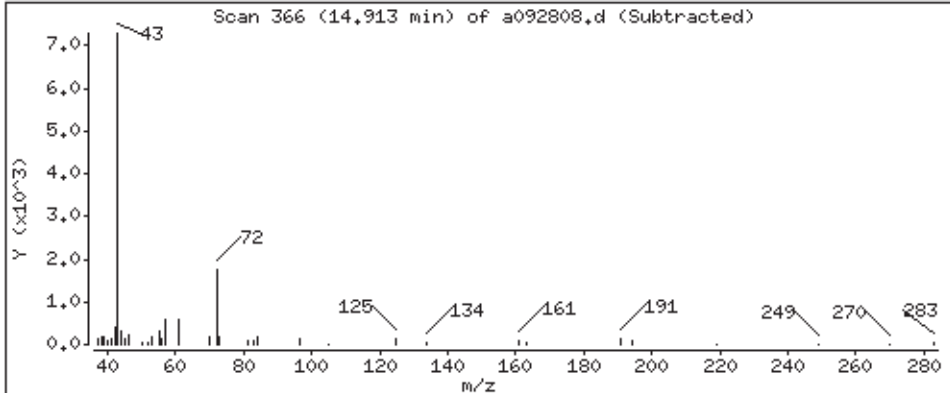
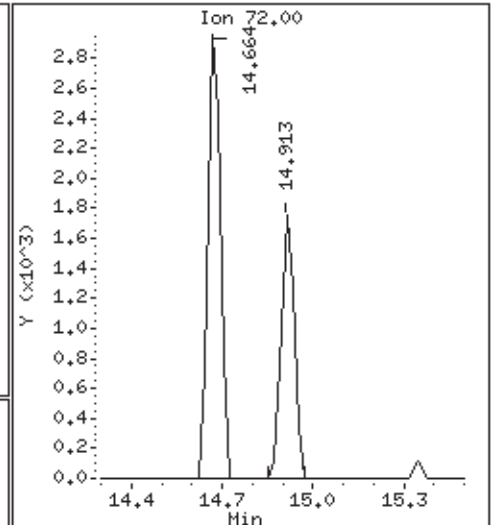
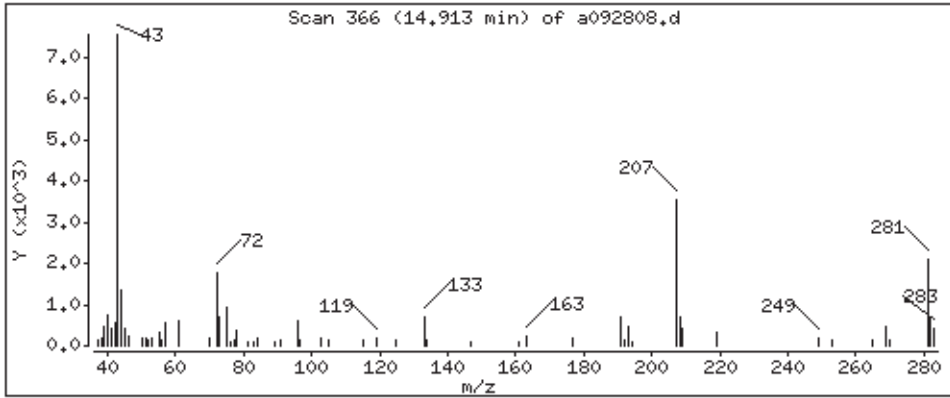
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 0.3177 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: ALF-5

Lab ID#: 1009208-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.023	0.046	0.059
Toluene	0.036	0.056	0.13	0.21

Client Sample ID: ALF-5

Lab ID#: 1009208-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092808sim	Date of Collection:	9/7/10 3:16:00 PM
Dil. Factor:	1.79	Date of Analysis:	9/29/10 08:06 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	0.023	0.046	0.059
1,1-Dichloroethene	0.018	Not Detected	0.071	Not Detected
1,1-Dichloroethane	0.036	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Benzene	0.090	Not Detected	0.28	Not Detected
1,2-Dichloroethane	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	Not Detected	0.19	Not Detected
Toluene	0.036	0.056	0.13	0.21
1,1,2-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
Ethyl Benzene	0.036	Not Detected	0.16	Not Detected
m,p-Xylene	0.072	Not Detected	0.31	Not Detected
o-Xylene	0.036	Not Detected	0.16	Not Detected
1,1,2,2-Tetrachloroethane	0.036	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092808sim.d
Lab Smp Id: 1009208-05B
Inj Date : 29-SEP-2010 08:06
Operator : cr Inst ID: msda.i
Smp Info : 250ml #31148
Misc Info : 7.5"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	FINAL	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.267	15.269	(1.000)	130	369635	10.0000		80.00-	120.00	100.00
15.267	15.269	(1.000)	128	286183			0.00-	30.00	77.42
15.267	15.269	(1.000)	49	417897			0.00-	30.00	113.06

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.082	16.084	(1.053)	65	478106	8.73875	8.739	80.00-	120.00	100.00
16.082	16.084	(1.053)	67	260017			0.00-	30.00	54.38

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.659	16.661	(1.000)	114	1589865	10.0000		80.00-	120.00	100.00
16.659	16.661	(1.000)	88	254986			0.00-	46.17	16.04

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.223	19.225	(1.154)	98	1403065	9.90082	9.901	80.00-	120.00	100.00
19.223	19.225	(1.154)	70	162871			0.00-	41.52	11.61
19.223	19.225	(1.154)	100	941962			36.81-	96.81	67.14

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.467	21.469	(1.000)	117	1465710	10.0000		80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 56 Chlorobenzene-d5 (continued)									
21.467	21.469	(1.000)	82	786036			0.00- 30.00	53.63	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.920	22.922	(1.068)	174	757003	10.2473	10.247	80.00- 120.00	100.00	
22.920	22.922	(1.068)	95	979934			100.82- 160.82	129.45	
22.920	22.922	(1.068)	176	738053			66.99- 126.99	97.50	

5 Vinyl Chloride CAS #: 75-01-4									
7.947	7.897	(0.520)	62	733	0.01283	0.02296	80.00- 120.00	100.00	
7.426	7.897	(0.486)	64	319			1.85- 61.85	43.64	

48 Toluene CAS #: 108-88-3									
19.335	19.337	(1.161)	91	7020	0.03161	0.05658	80.00- 120.00	100.00	
19.335	19.337	(1.161)	92	4150			30.39- 90.39	59.12	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092808sim.d
 Lab Smp Id: 1009208-05B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
 Misc Info: 7.5"Hg - 5psi

Calibration Date: 28-SEP-2010
 Calibration Time: 19:58
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	359040	215424	502656	369635	2.95
40 1,4-Difluorobenze	1478522	887113	2069931	1589865	7.53
56 Chlorobenzene-d5	1377474	826484	1928464	1465710	6.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	-0.01
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	-0.01
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-05B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 7.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.739	87.39	70-130
\$ 47 Toluene-d8	10.000	9.901	99.01	70-130
\$ 66 Bromofluorobenzene	10.000	10.247	102.47	70-130

Data File: /chem/msda.i/28Sep2010.b/a092808sim.d

Date: 29-SEP-2010 08:06

Client ID:

Sample Info: 250ml #31148

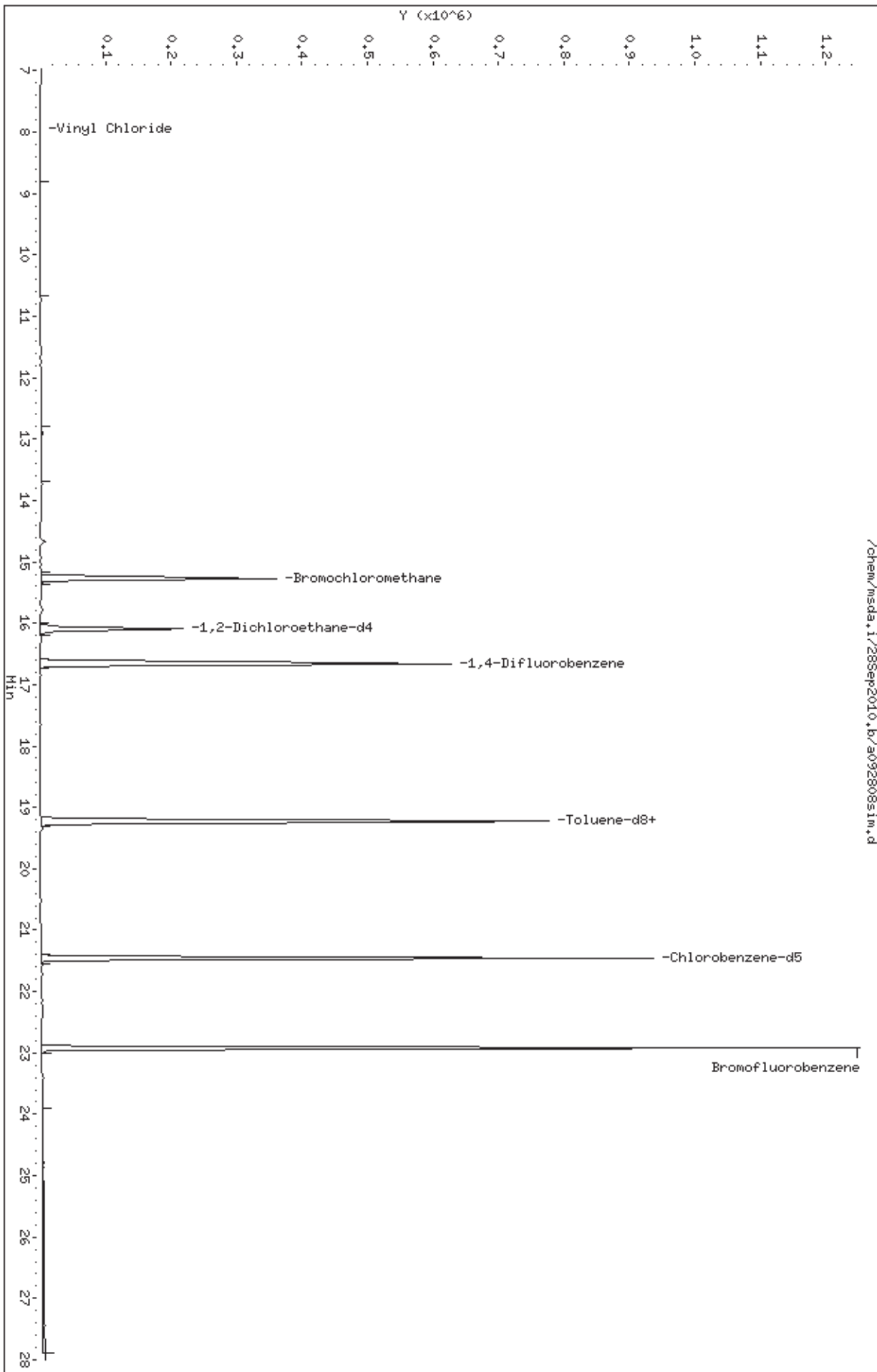
Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53

/chem/msda.i/28Sep2010.b/a092808sim.d



Date : 29-SEP-2010 08:06

Client ID:

Instrument: msda.i

Sample Info: 250ml #31148

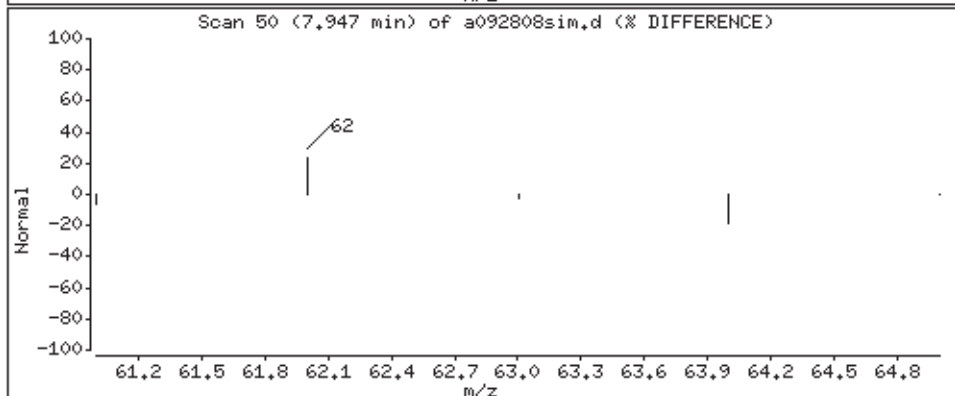
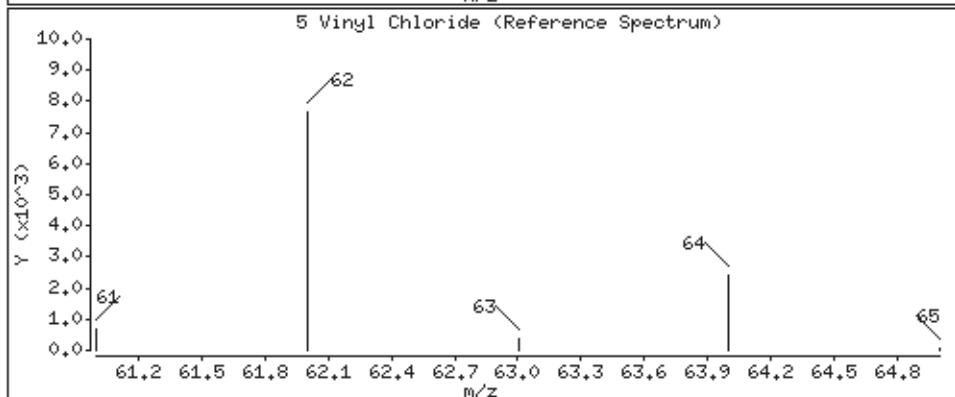
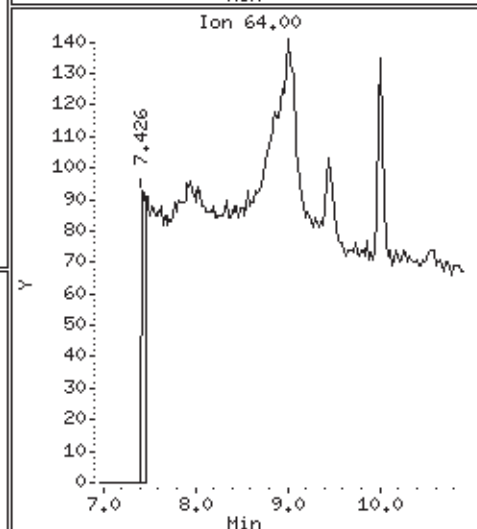
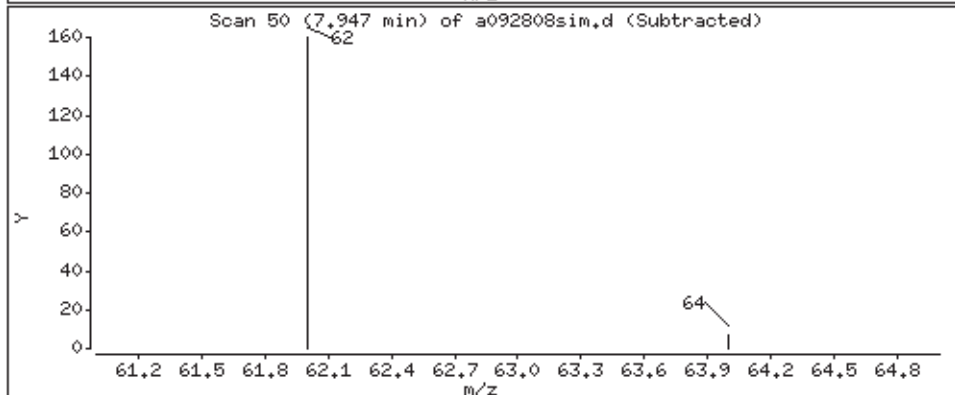
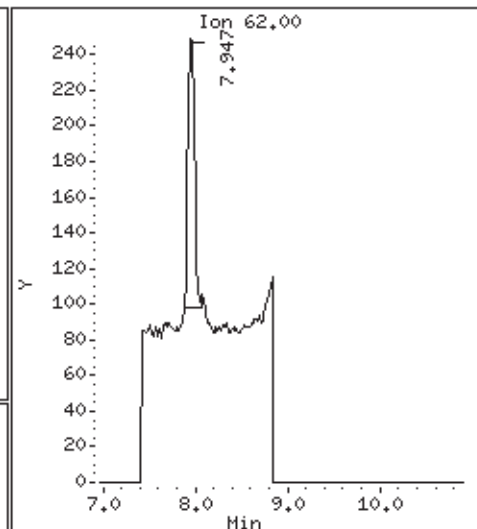
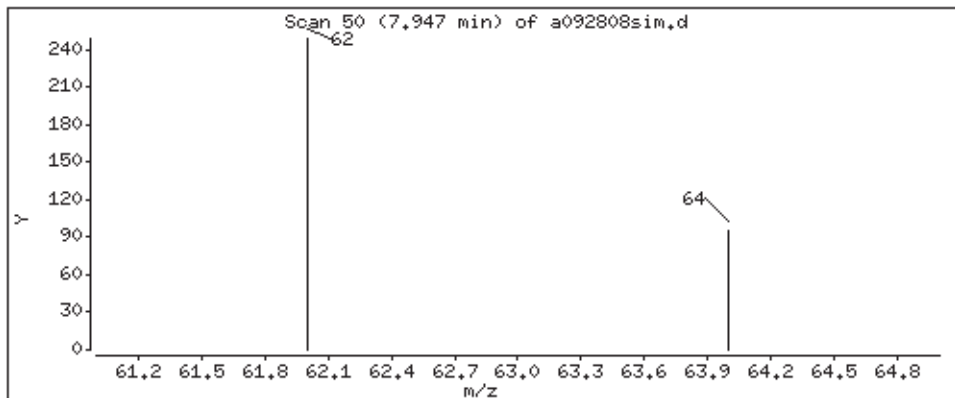
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.02296 PPBV



Date : 29-SEP-2010 08:06

Client ID:

Instrument: msda.i

Sample Info: 250ml #31148

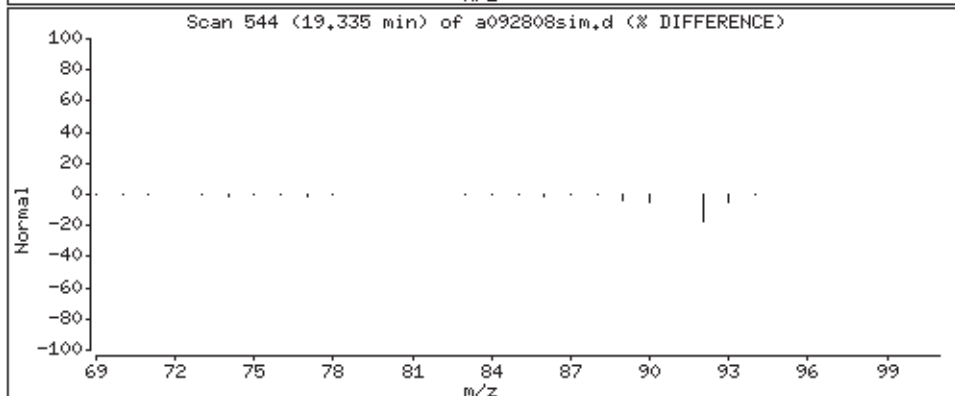
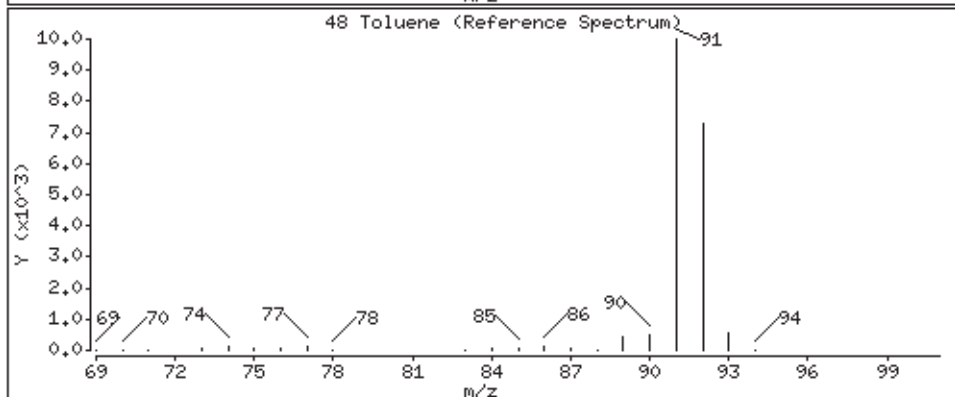
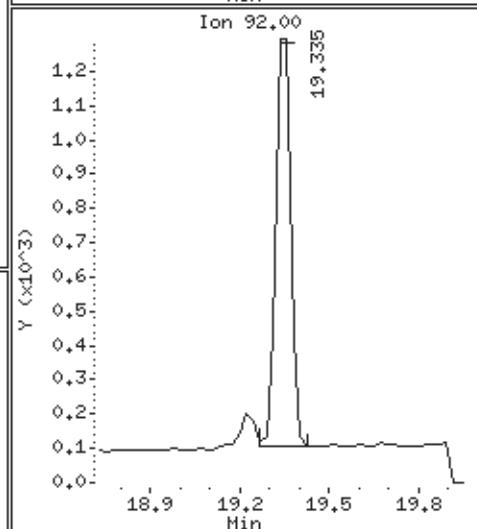
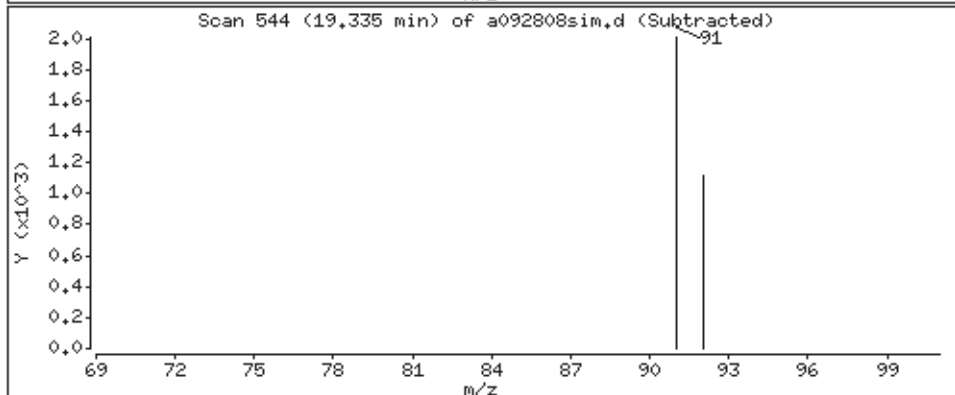
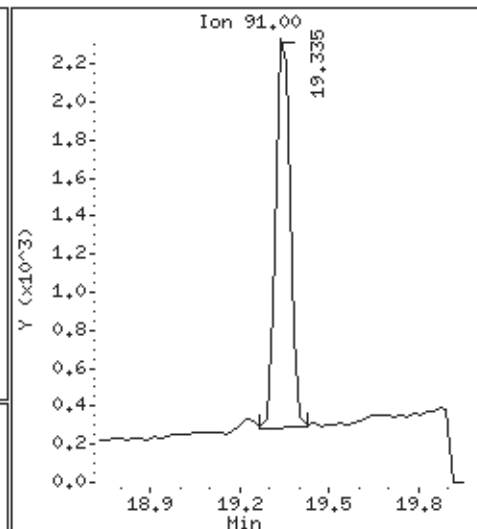
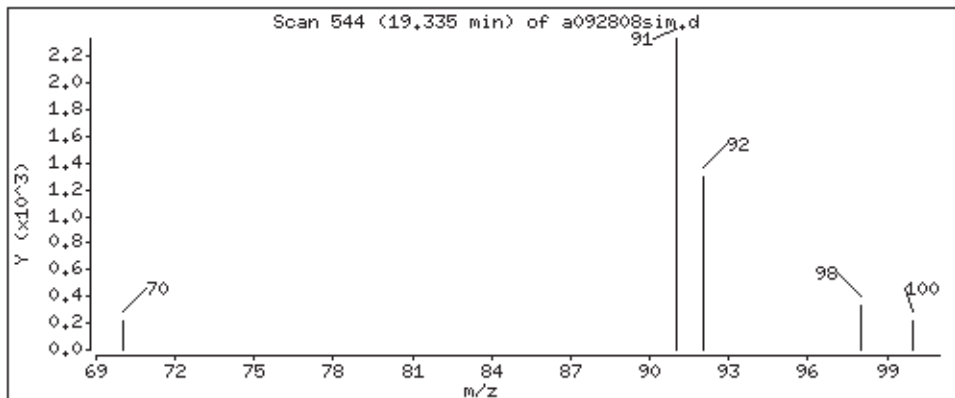
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

48 Toluene

Concentration: 0.05658 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AOS-1

Lab ID#: 1009208-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	2.1	1.6	4.0
Acetone	0.86	11	2.0	27
2-Butanone (Methyl Ethyl Ketone)	0.17	2.0	0.50	5.9

Client Sample ID: AOS-1

Lab ID#: 1009208-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092809	Date of Collection:	9/7/10 3:41:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/29/10 08:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.17	Not Detected	0.35	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.17	Not Detected	0.45	Not Detected
Freon 11	0.17	0.20	0.96	1.1
Ethanol	0.86	2.1	1.6	4.0
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.86	11	2.0	27
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	2.0	0.50	5.9
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected

Client Sample ID: AOS-1

Lab ID#: 1009208-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092809	Date of Collection:	9/7/10 3:41:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/29/10 08:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092809.d
 Lab Smp Id: 1009208-06A
 Inj Date : 29-SEP-2010 08:41
 Operator : cr Inst ID: msda.i
 Smp Info : 250ml #5572
 Misc Info : 6.5"Hg - 5psi
 Comment :
 Method : /chem/msda.i/28Sep2010.b/a1010915a.m
 Meth Date : 29-Sep-2010 11:04 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
 Als bottle: 32
 Dil Factor: 1.71000
 Integrator: HP RTE Compound Sublist: EXPO14301.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT (REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
* 52 Bromochloromethane CAS #: 74-97-5								
15.253	15.255 (1.000)	130	367384	10.0000		80.00- 120.00	100.00	
15.253	15.255 (1.000)	128	282872			48.35- 108.35	77.00	
15.253	15.255 (1.000)	49	391596			89.31- 149.31	106.59	

* 66 1,4-Difluorobenzene CAS #: 540-36-3								
16.645	16.647 (1.000)	114	1507599	10.0000		80.00- 120.00	100.00	
16.645	16.647 (1.000)	88	241067			0.00- 46.24	15.99	

* 88 Chlorobenzene-d5 CAS #: 3114-55-4								
21.454	21.456 (1.000)	117	1396129	10.0000		80.00- 120.00	100.00	
21.454	21.456 (1.000)	82	763971			25.95- 85.95	54.72	

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.096	16.098 (1.055)	65	449363	8.41511	8.415	80.00- 120.00	100.00	
16.096	16.098 (1.055)	67	243932			0.00- 30.00	54.28	

\$ 80 Toluene-d8 CAS #: 2037-26-5								
19.209	19.211 (1.154)	98	1447681	9.42813	9.428	80.00- 120.00	100.00	
19.209	19.211 (1.154)	70	157986			0.00- 30.00	10.91	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.209	19.211	(1.154)	100	984437			37.86-	97.86	68.00

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.932	22.934	(1.069)	174	711598	9.97548	9.975	80.00-	120.00	100.00
22.906	22.934	(1.068)	95	922392			98.89-	158.89	129.62
22.932	22.934	(1.069)	176	691655			67.15-	127.15	97.20

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.742	10.724	(0.704)	101	15856	0.11552	0.1975	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	10358			35.14-	95.14	65.33

20 Ethanol CAS #: 64-17-5									
11.551	11.532	(0.757)	45	20411	1.24003	2.120	80.00-	120.00	100.00
11.551	11.532	(0.757)	43	4490			0.00-	30.00	22.00
11.551	11.532	(0.757)	46	8227			0.00-	30.00	40.31

24 Acetone CAS #: 67-64-1									
12.256	12.258	(0.803)	58	143404	6.56885	11.233	80.00-	120.00	100.00
12.256	12.258	(0.803)	43	403609			0.00-	30.00	281.45

48 2-Butanone CAS #: 78-93-3									
14.913	14.915	(0.978)	72	35082	1.16478	1.992	80.00-	120.00	100.00
14.913	14.915	(0.978)	43	114774			0.00-	30.00	327.16
14.913	14.915	(0.978)	57	10417			0.00-	30.00	29.69

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092809.d
 Lab Smp Id: 1009208-06A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
 Misc Info: 6.5"Hg - 5psi

Calibration Date: 28-SEP-2010
 Calibration Time: 19:58
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	367384	4.52
66 1,4-Difluorobenze	1417041	850225	1983857	1507599	6.39
88 Chlorobenzene-d5	1320371	792223	1848519	1396129	5.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-06A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 6.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.415	84.15	70-130
\$ 80 Toluene-d8	10.000	9.428	94.28	70-130
\$ 100 Bromofluorobenzene	10.000	9.975	99.75	70-130

Date : 29-SEP-2010 08:41

Client ID:

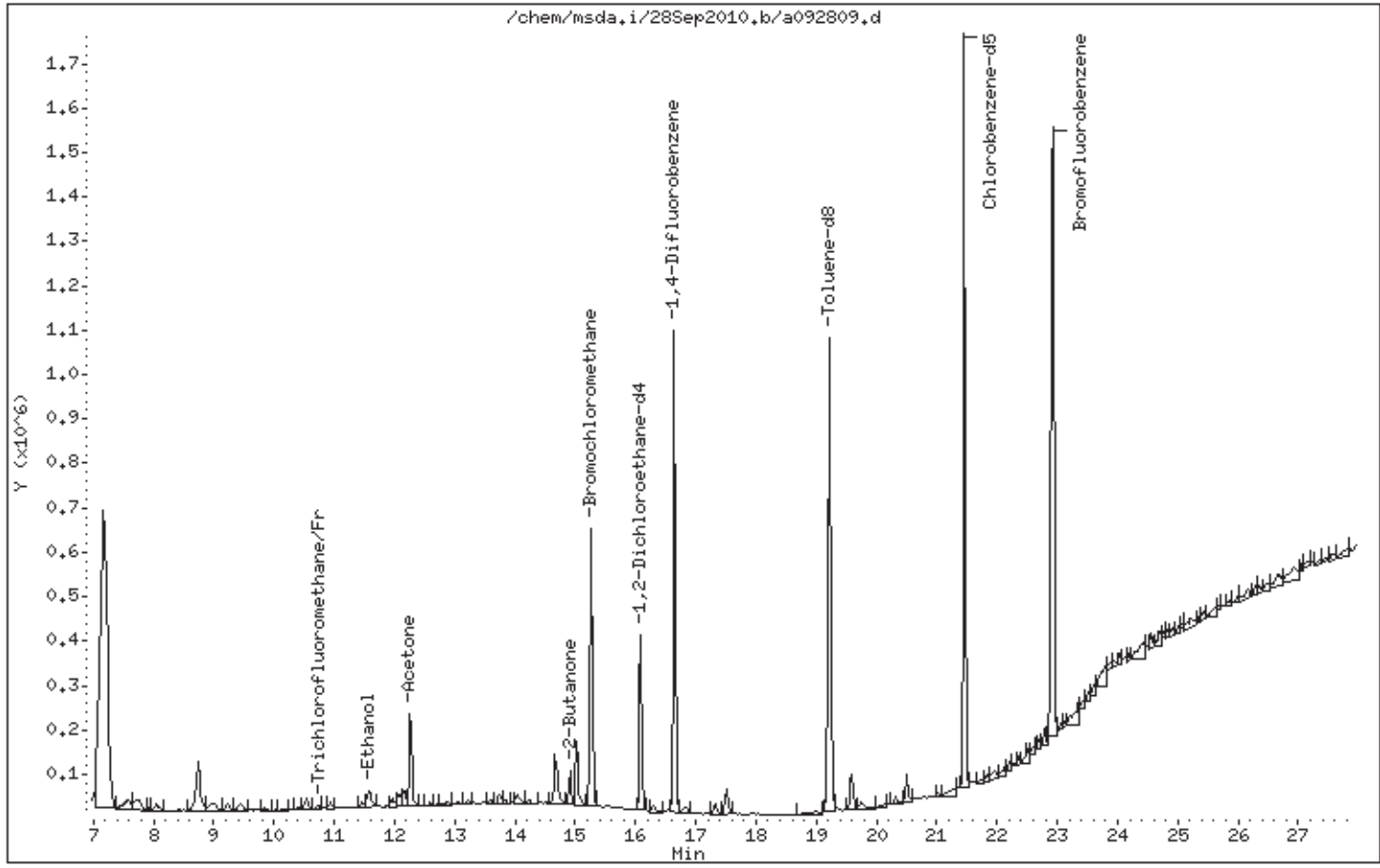
Instrument: msda.i

Sample Info: 250ml #5572

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Date : 29-SEP-2010 08:41

Client ID:

Instrument: msda.i

Sample Info: 250ml #5572

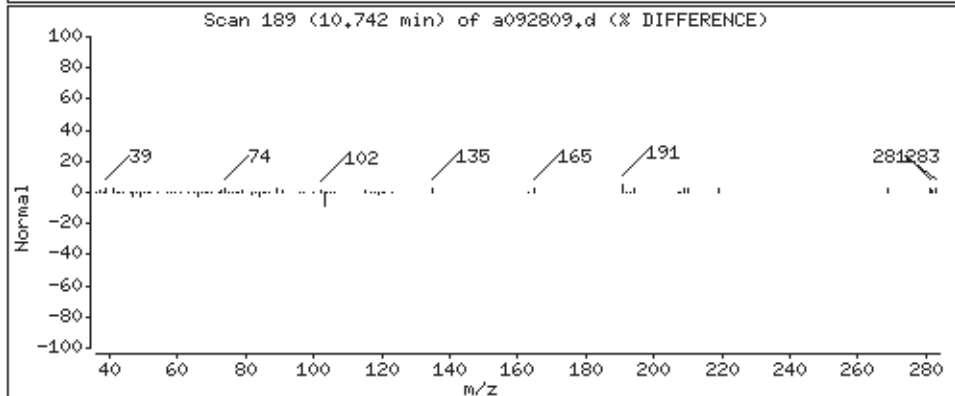
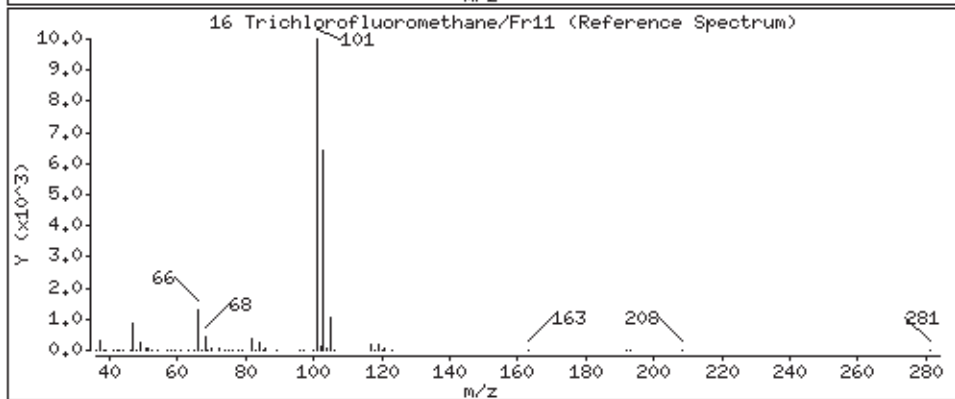
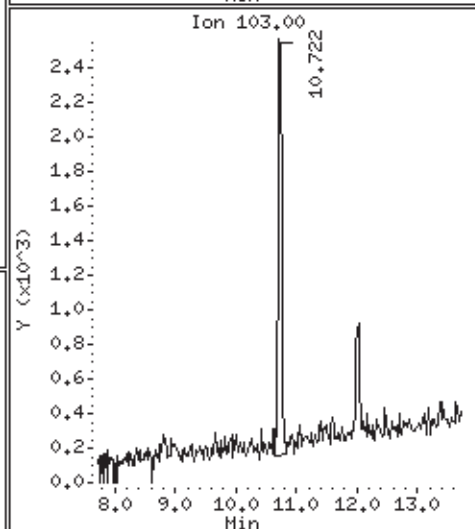
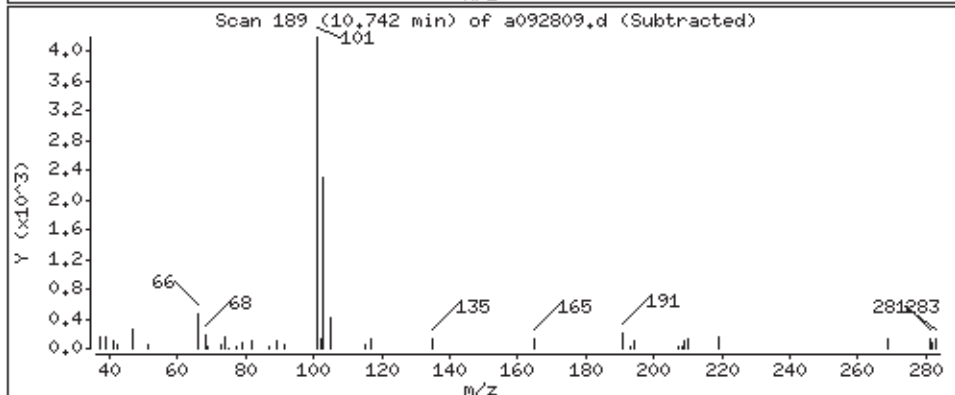
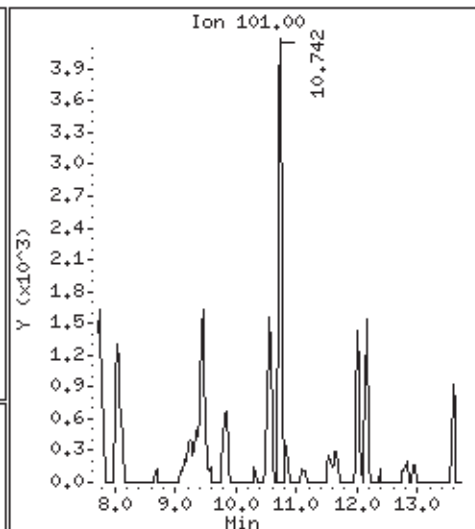
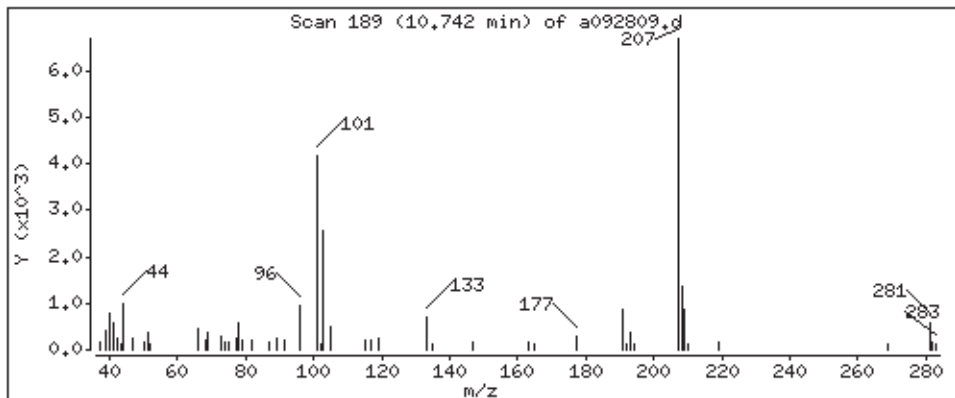
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.1975 PPBV



Date : 29-SEP-2010 08:41

Client ID:

Instrument: msda.i

Sample Info: 250ml #5572

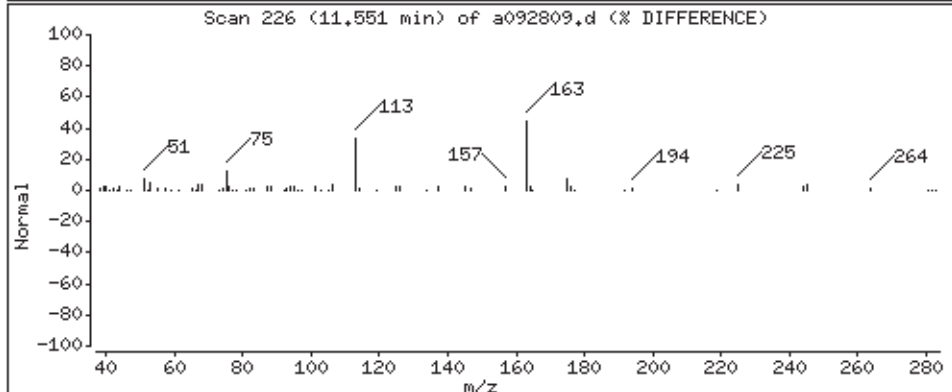
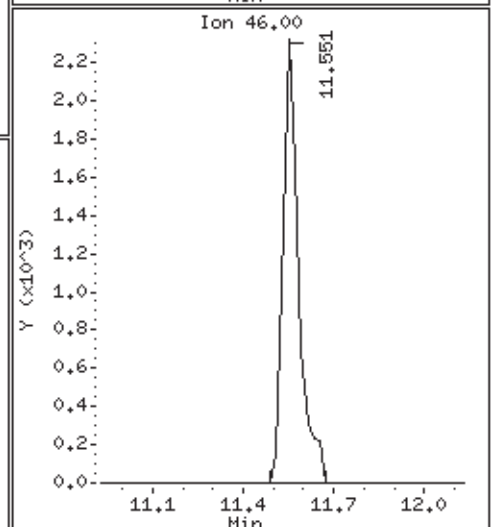
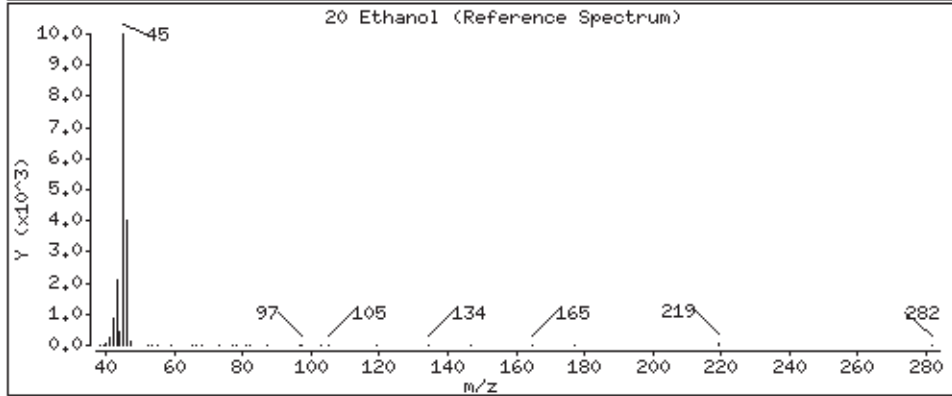
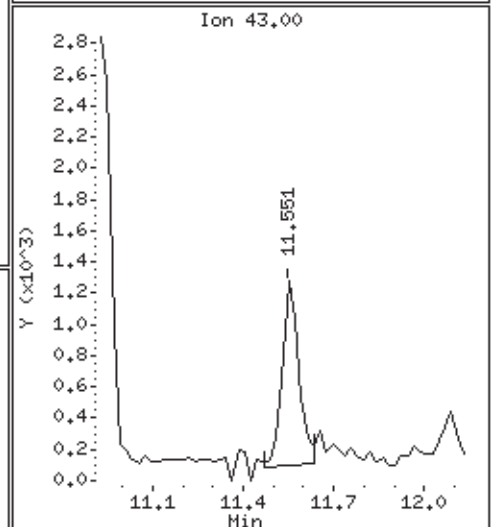
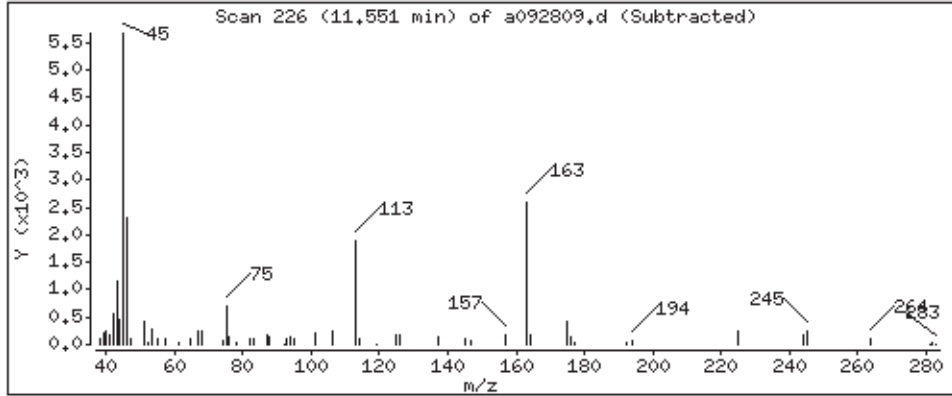
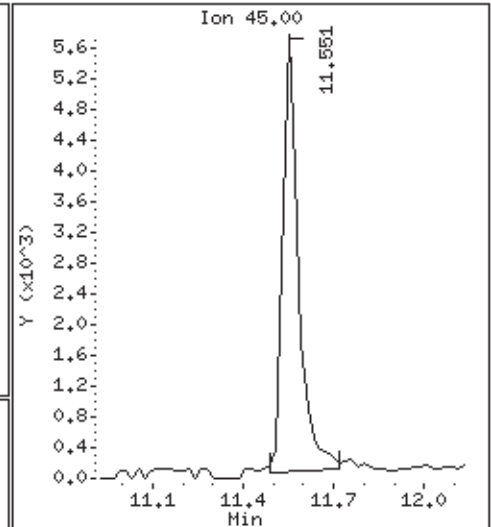
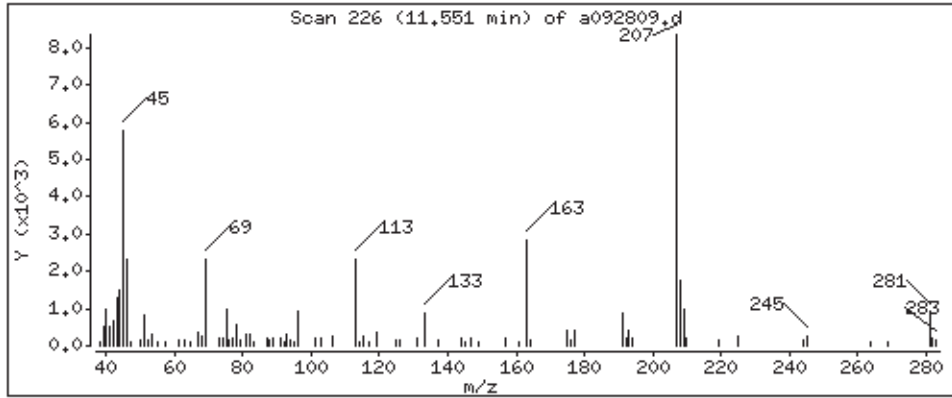
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 2,120 PPBV



Date : 29-SEP-2010 08:41

Client ID:

Instrument: msda.i

Sample Info: 250ml #5572

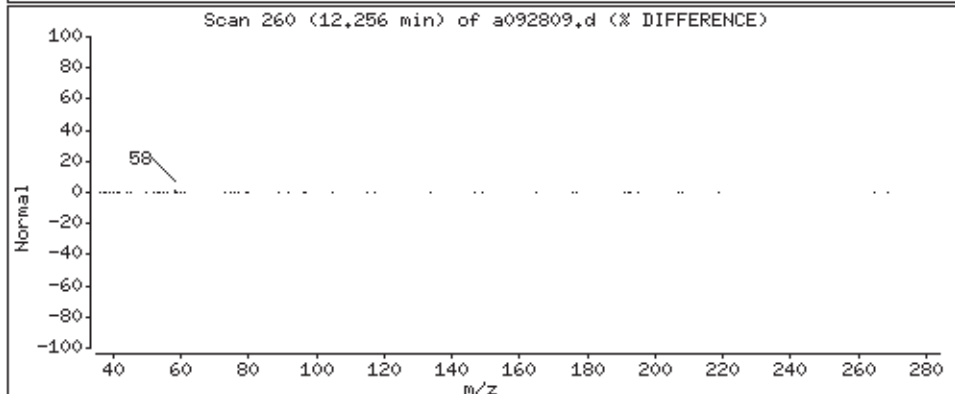
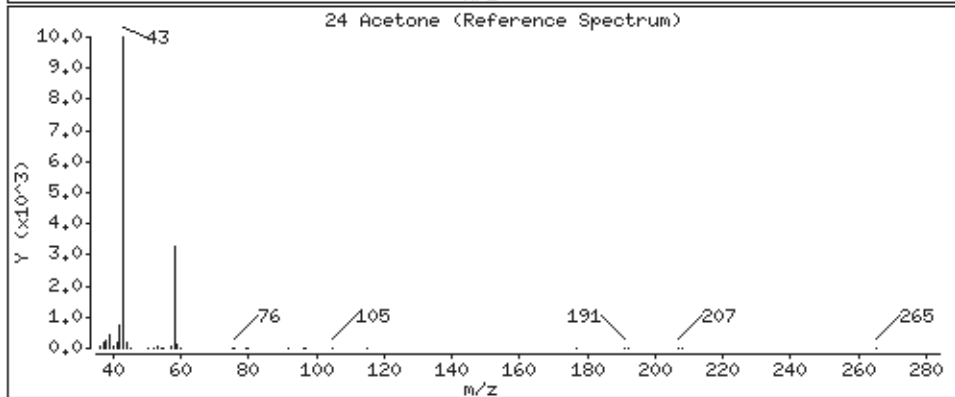
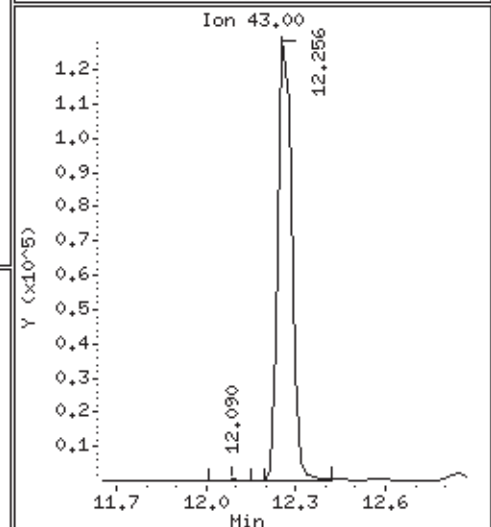
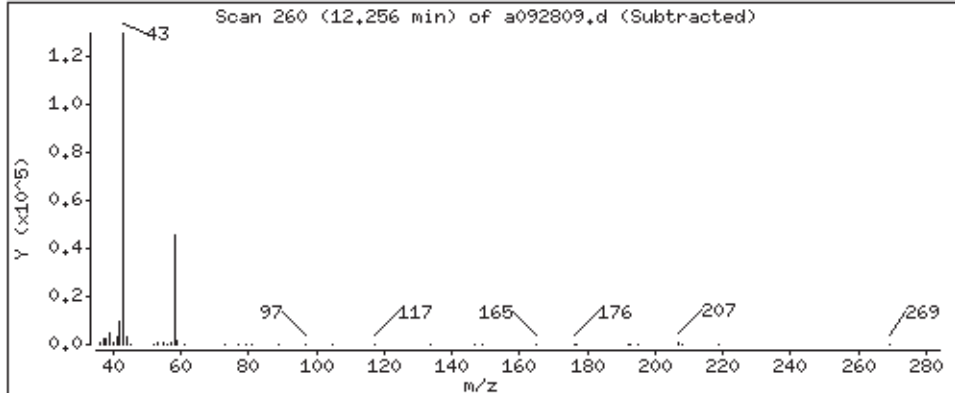
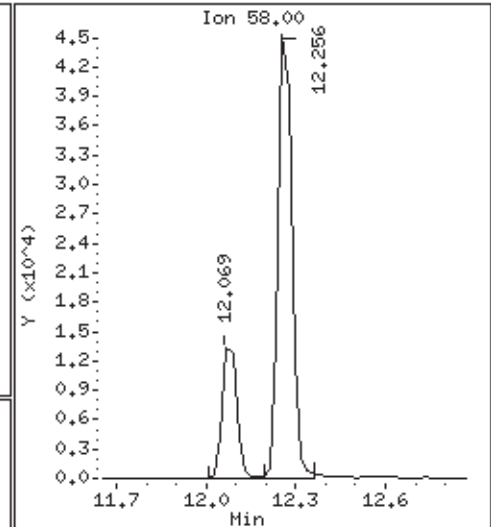
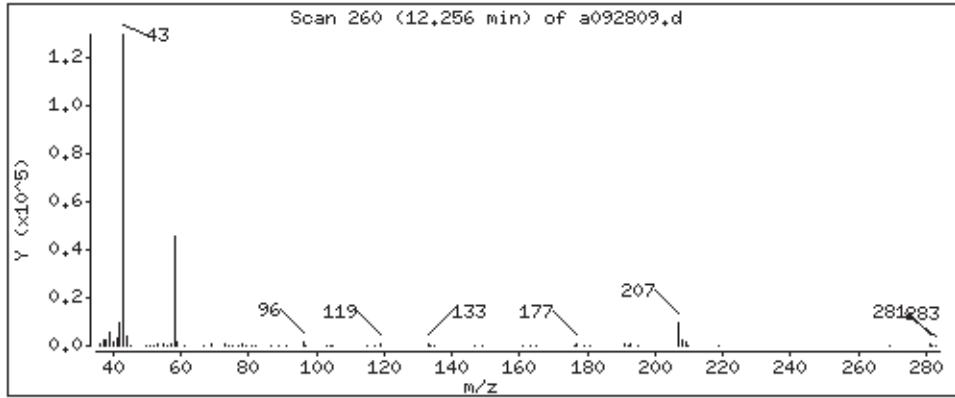
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 11,233 PPBV



Date : 29-SEP-2010 08:41

Client ID:

Instrument: msda.i

Sample Info: 250ml #5572

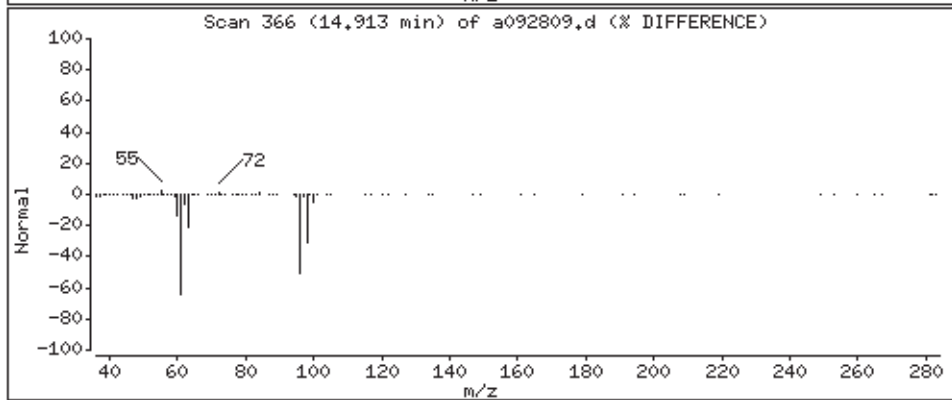
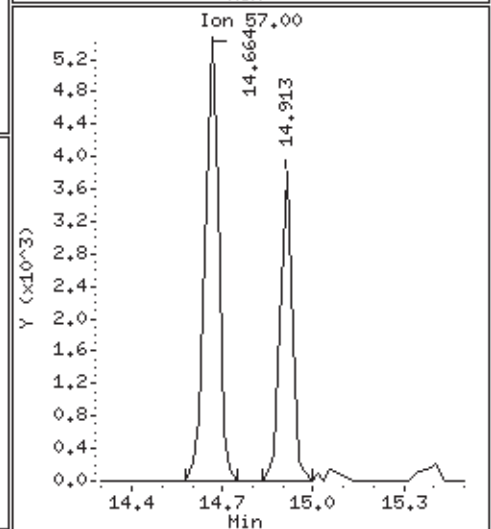
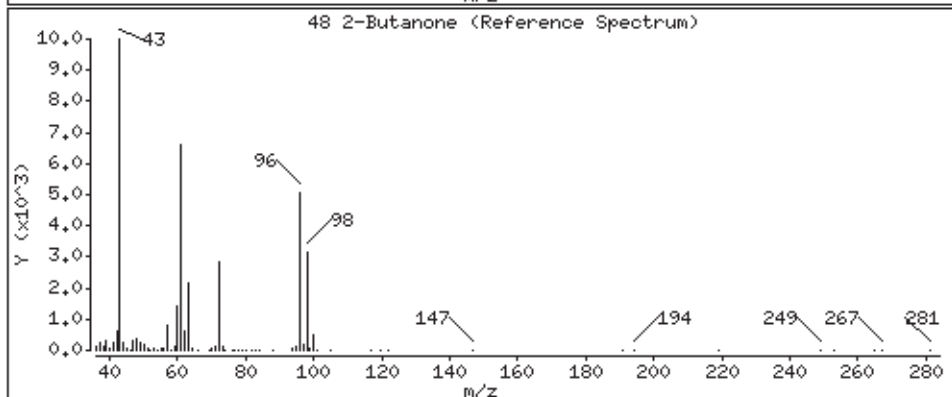
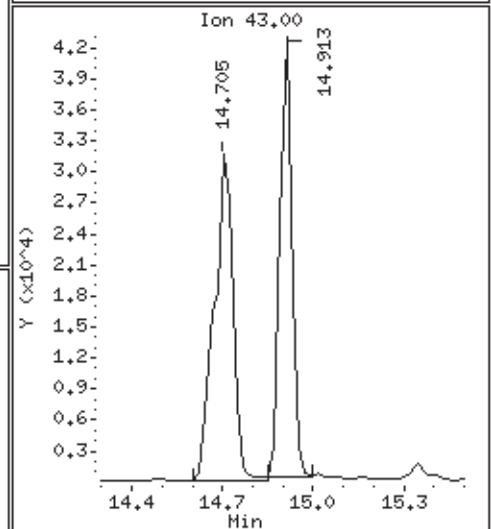
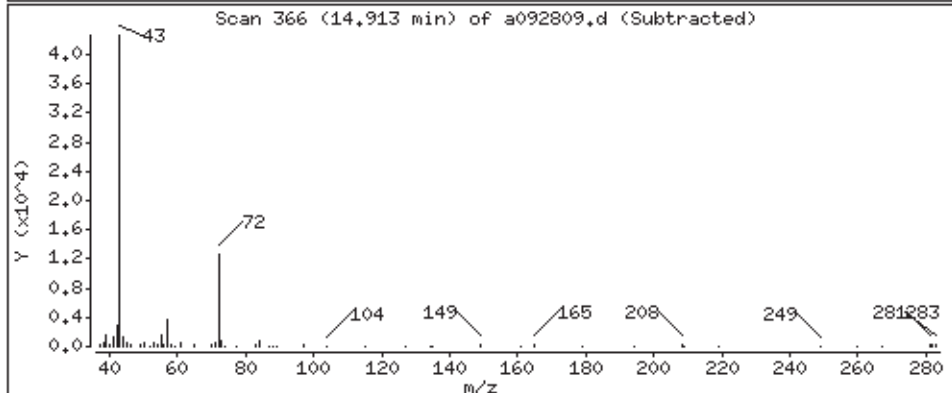
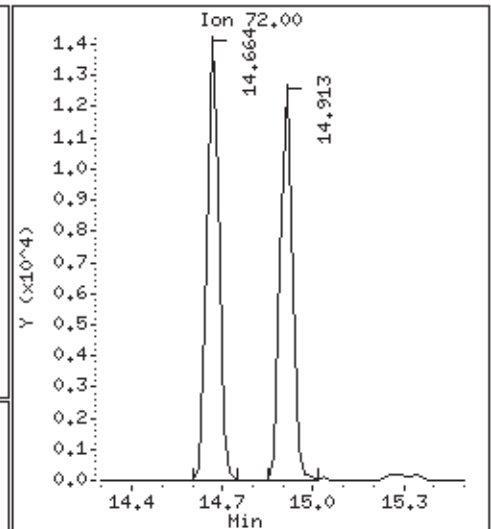
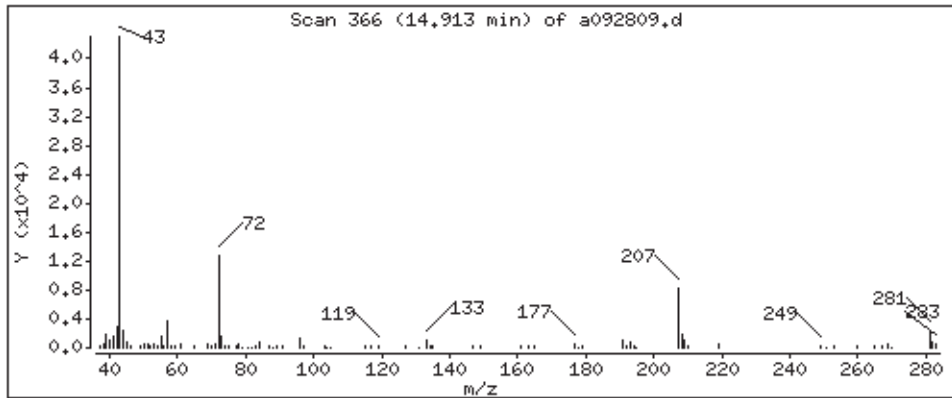
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 1,992 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AOS-1

Lab ID#: 1009208-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.21	0.044	0.53
Toluene	0.034	0.084	0.13	0.32

Client Sample ID: AOS-1

Lab ID#: 1009208-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092809sim	Date of Collection:	9/7/10 3:41:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/29/10 08:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.21	0.044	0.53
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Benzene	0.086	Not Detected	0.27	Not Detected
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.084	0.13	0.32
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
Ethyl Benzene	0.034	Not Detected	0.15	Not Detected
m,p-Xylene	0.068	Not Detected	0.30	Not Detected
o-Xylene	0.034	Not Detected	0.15	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092809sim.d
Lab Smp Id: 1009208-06B
Inj Date : 29-SEP-2010 08:41
Operator : cr Inst ID: msda.i
Smp Info : 250ml #5572
Misc Info : 6.5"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.267	15.269	(1.000)	130	373771	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	289115				0.00- 30.00	77.35
15.267	15.269	(1.000)	49	420093				0.00- 30.00	112.39

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.082	16.084	(1.053)	65	477659	8.63398	8.634		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	259344				0.00- 30.00	54.29

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.659	16.661	(1.000)	114	1580591	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	252934				0.00- 46.17	16.00

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.223	19.225	(1.154)	98	1399758	9.93544	9.935		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	159151				0.00- 41.52	11.37
19.223	19.225	(1.154)	100	939956				36.81- 96.81	67.15

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.467	21.469	(1.000)	117	1458417	10.0000			80.00- 120.00	100.00

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 56 Chlorobenzene-d5 (continued)								
21.467	21.469	(1.000)	82	781385			0.00- 30.00	53.58

\$ 66 Bromofluorobenzene CAS #: 460-00-4								
22.920	22.922	(1.068)	174	762332	10.3710	10.371	80.00- 120.00	100.00
22.920	22.922	(1.068)	95	993170			100.82- 160.82	130.28
22.920	22.922	(1.068)	176	736697			66.99- 126.99	96.64

5 Vinyl Chloride CAS #: 75-01-4								
7.947	7.897	(0.520)	62	7057	0.12212	0.2088	80.00- 120.00	100.00
7.947	7.897	(0.520)	64	334			1.85- 61.85	4.74

48 Toluene CAS #: 108-88-3								
19.335	19.337	(1.161)	91	10895	0.04934	0.08437	80.00- 120.00	100.00
19.335	19.337	(1.161)	92	6501			30.39- 90.39	59.67

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-06B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 6.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.634	86.34	70-130
\$ 47 Toluene-d8	10.000	9.935	99.35	70-130
\$ 66 Bromofluorobenzene	10.000	10.371	103.71	70-130

Data File: /chem/msda.i/28Sep2010.b/a092809s.im.d

Date: 29-SEP-2010 08:41

Client ID:

Sample Info: 250ml #5572

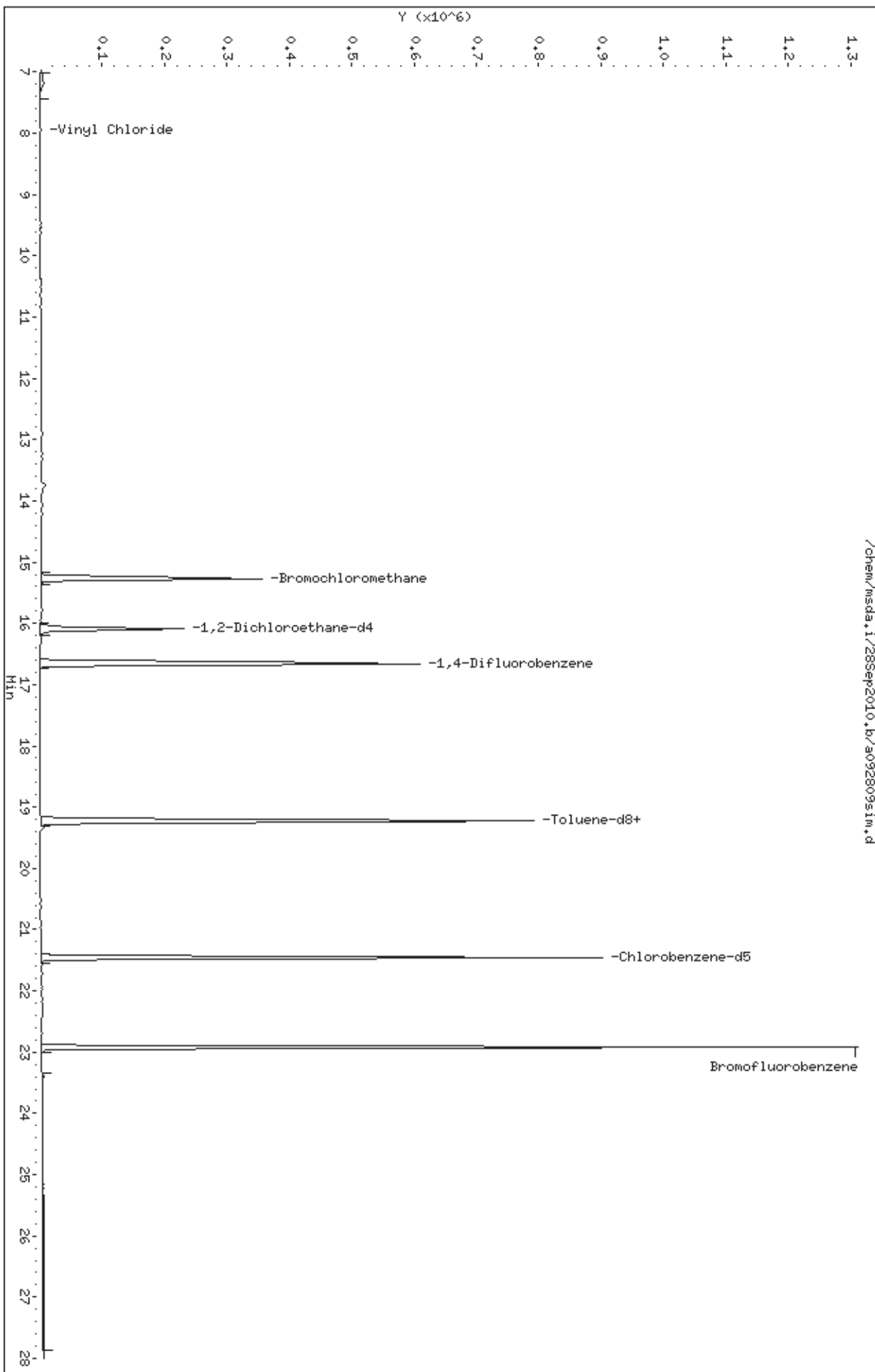
Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53

Page 1



Date : 29-SEP-2010 08:41

Client ID:

Instrument: msda.i

Sample Info: 250ml #5572

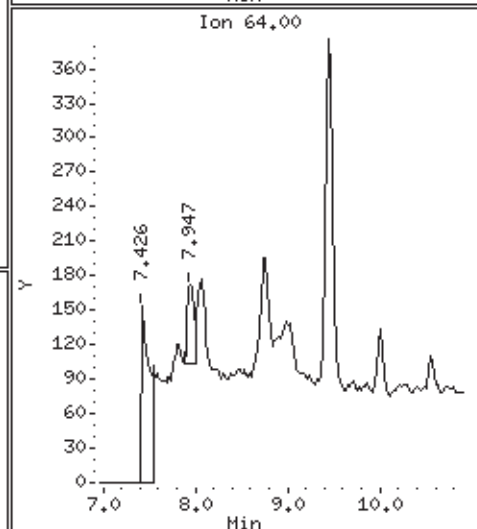
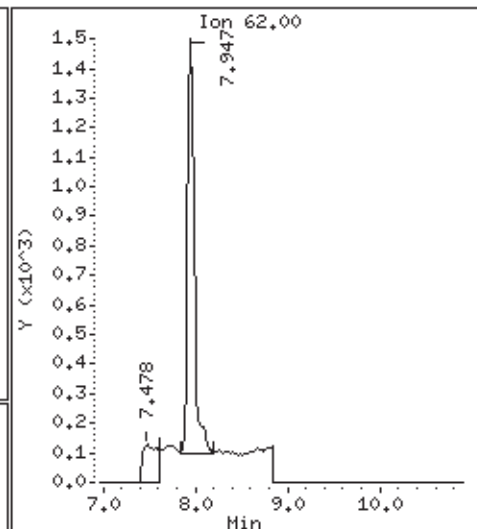
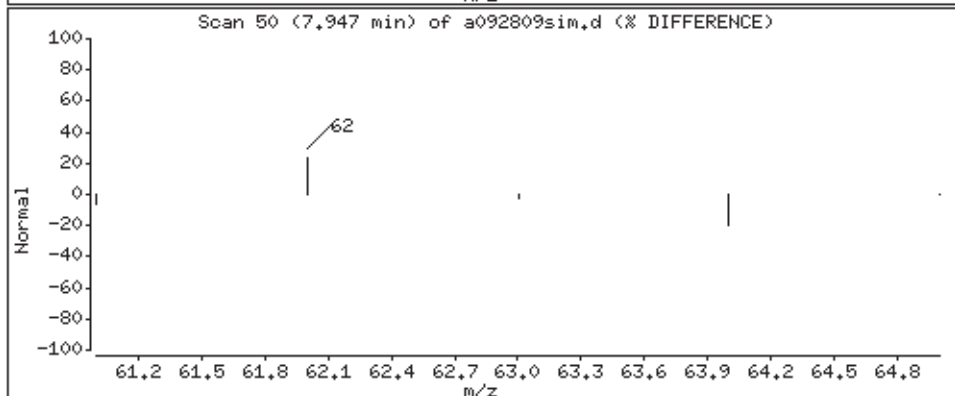
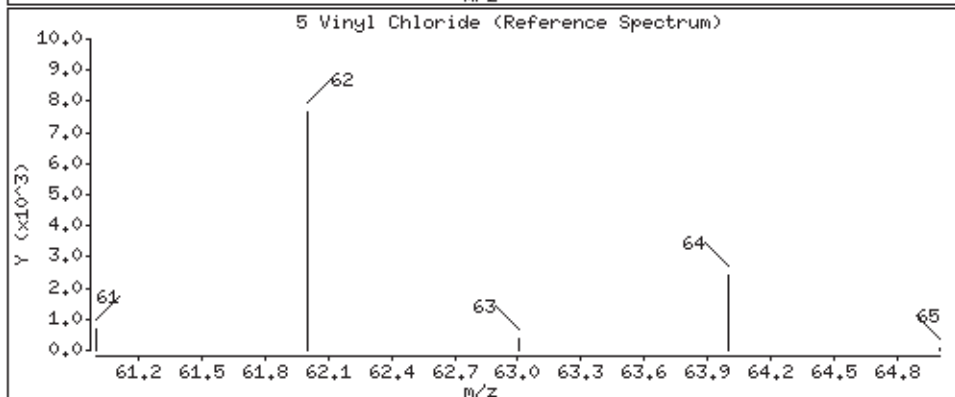
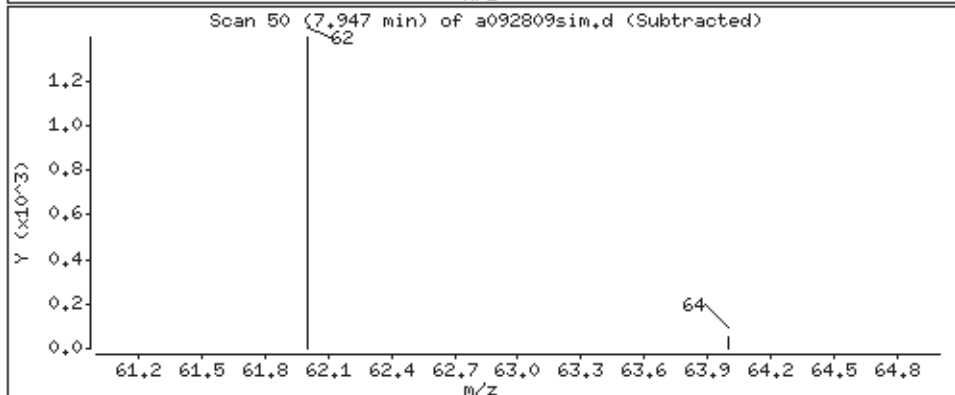
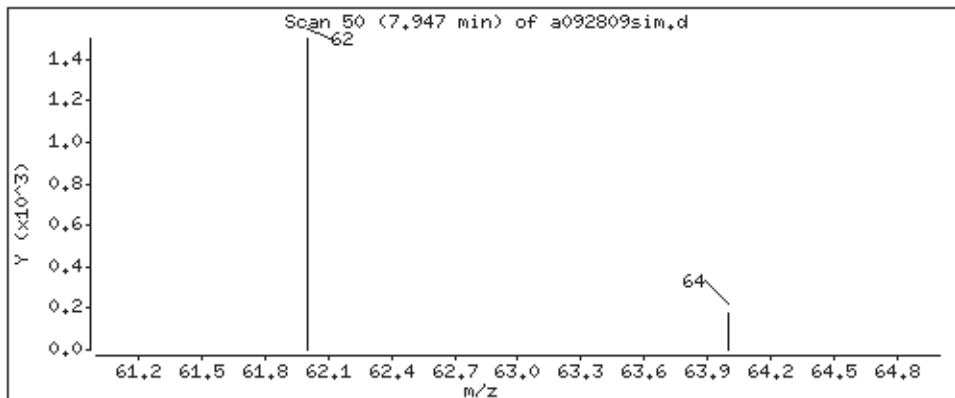
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.2088 PPBV



Date : 29-SEP-2010 08:41

Client ID:

Instrument: msda.i

Sample Info: 250ml #5572

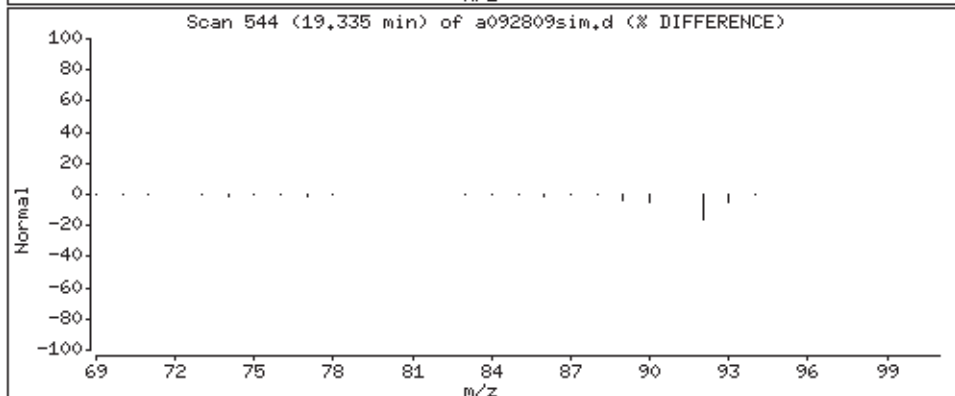
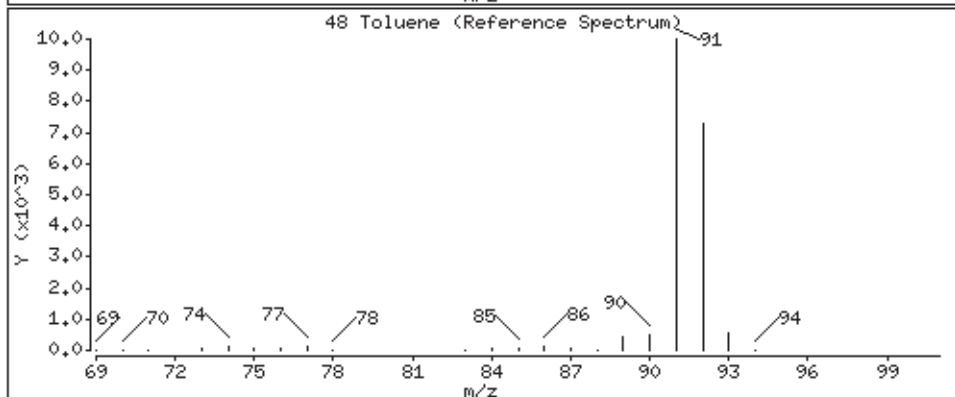
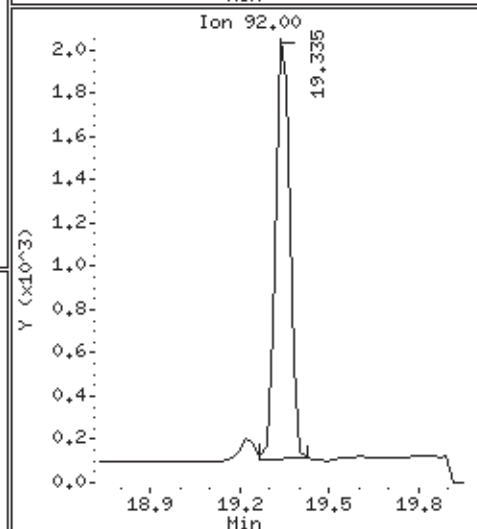
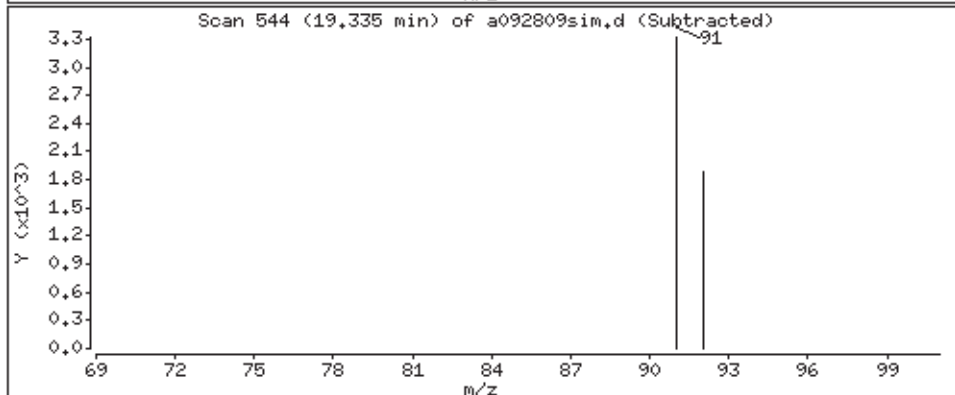
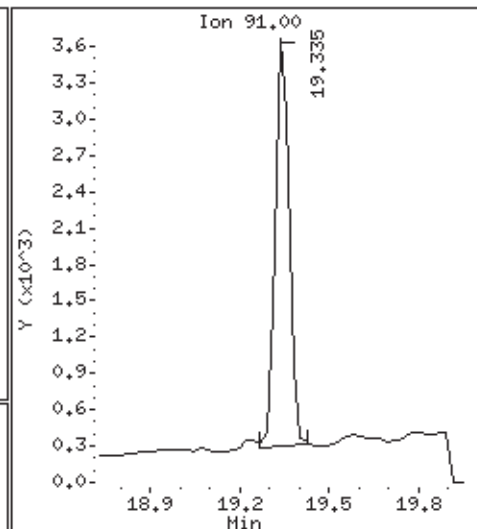
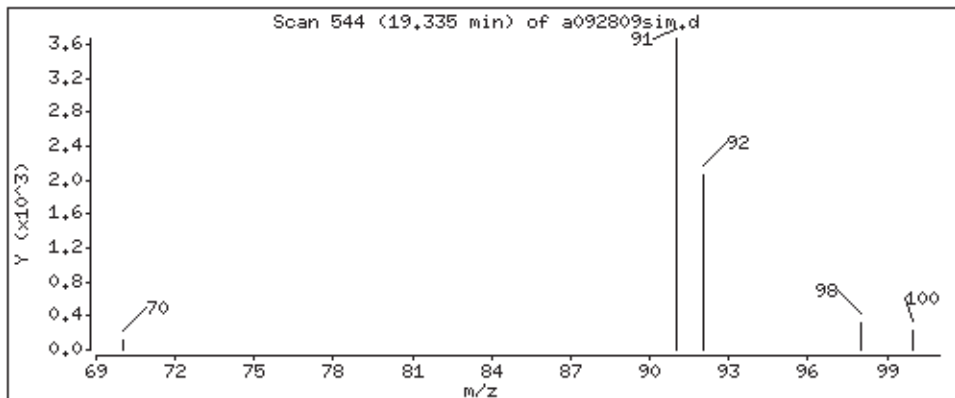
Operator: cr

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.08437 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AOS-2

Lab ID#: 1009208-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.16	0.23	0.90	1.3
Ethanol	0.80	2.1	1.5	4.0
Acetone	0.80	5.8	1.9	14
Methylene Chloride	0.32	1.7	1.1	5.9
2-Butanone (Methyl Ethyl Ketone)	0.16	1.5	0.47	4.4

Client Sample ID: AOS-2

Lab ID#: 1009208-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092810	Date of Collection: 9/7/10 3:44:00 PM
Dil. Factor:	1.61	Date of Analysis: 9/29/10 09:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.16	Not Detected	0.33	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.16	Not Detected	0.62	Not Detected
Chloroethane	0.16	Not Detected	0.42	Not Detected
Freon 11	0.16	0.23	0.90	1.3
Ethanol	0.80	2.1	1.5	4.0
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.80	5.8	1.9	14
2-Propanol	0.80	Not Detected	2.0	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	1.7	1.1	5.9
Hexane	0.16	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.16	1.5	0.47	4.4
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
Cyclohexane	0.16	Not Detected	0.55	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.16	Not Detected	0.66	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected



Client Sample ID: AOS-2

Lab ID#: 1009208-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092810	Date of Collection:	9/7/10 3:44:00 PM
Dil. Factor:	1.61	Date of Analysis:	9/29/10 09:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092810.d
 Lab Smp Id: 1009208-07A
 Inj Date : 29-SEP-2010 09:29
 Operator : cr Inst ID: msda.i
 Smp Info : 250ml #34351
 Misc Info : 5.0"Hg - 5psi
 Comment :
 Method : /chem/msda.i/28Sep2010.b/a1010915a.m
 Meth Date : 29-Sep-2010 11:04 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
 Als bottle: 32
 Dil Factor: 1.61000
 Integrator: HP RTE Compound Sublist: EXP014301.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT (REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
* 52 Bromochloromethane CAS #: 74-97-5								
15.253	15.255 (1.000)	130	364368	10.0000		80.00- 120.00	100.00	
15.253	15.255 (1.000)	128	280750			48.35- 108.35	77.05	
15.253	15.255 (1.000)	49	386590			89.31- 149.31	106.10	

* 66 1,4-Difluorobenzene CAS #: 540-36-3								
16.645	16.647 (1.000)	114	1525403	10.0000		80.00- 120.00	100.00	
16.645	16.647 (1.000)	88	244151			0.00- 46.24	16.01	

* 88 Chlorobenzene-d5 CAS #: 3114-55-4								
21.454	21.456 (1.000)	117	1416770	10.0000		80.00- 120.00	100.00	
21.454	21.456 (1.000)	82	773649			25.95- 85.95	54.61	

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.096	16.098 (1.055)	65	449263	8.48288	8.483	80.00- 120.00	100.00	
16.096	16.098 (1.055)	67	246452			0.00- 30.00	54.86	

\$ 80 Toluene-d8 CAS #: 2037-26-5								
19.209	19.211 (1.154)	98	1465292	9.43145	9.431	80.00- 120.00	100.00	
19.209	19.211 (1.154)	70	158229			0.00- 30.00	10.80	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL	FINAL			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.232	19.211	(1.155)	100	990871			37.86-	97.86	67.62

\$ 100 Bromofluorobenzene									
									CAS #: 460-00-4
22.932	22.934	(1.069)	174	732970	10.1254	10.125	80.00-	120.00	100.00
22.932	22.934	(1.069)	95	947999			98.89-	158.89	129.34
22.932	22.934	(1.069)	176	714092			67.15-	127.15	97.42

16 Trichlorofluoromethane/Fr11									
									CAS #: 75-69-4
10.722	10.724	(0.703)	101	19324	0.14196	0.2285	80.00-	120.00	100.00
10.722	10.724	(0.703)	103	10710			35.14-	95.14	55.42

20 Ethanol									
									CAS #: 64-17-5
11.551	11.532	(0.757)	45	21486	1.31614	2.119	80.00-	120.00	100.00
11.551	11.532	(0.757)	43	4742			0.00-	30.00	22.07
11.551	11.532	(0.757)	46	8721			0.00-	30.00	40.59

24 Acetone									
									CAS #: 67-64-1
12.277	12.258	(0.805)	58	77917	3.59866	5.794	80.00-	120.00	100.00
12.256	12.258	(0.803)	43	214319			0.00-	30.00	275.06

33 Methylene Chloride									
									CAS #: 75-09-2
13.035	13.037	(0.855)	84	50298	1.04830	1.688	80.00-	120.00	100.00
13.035	13.037	(0.855)	49	53041			0.00-	30.00	105.45
13.035	13.037	(0.855)	51	18373			0.00-	30.00	36.53

48 2-Butanone									
									CAS #: 78-93-3
14.913	14.915	(0.978)	72	27448	0.91886	1.479	80.00-	120.00	100.00
14.913	14.915	(0.978)	43	107754			0.00-	30.00	392.57
14.913	14.915	(0.978)	57	8045			0.00-	30.00	29.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092810.d
 Lab Smp Id: 1009208-07A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
 Misc Info: 5.0"Hg - 5psi

Calibration Date: 28-SEP-2010
 Calibration Time: 19:58
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	364368	3.66
66 1,4-Difluorobenze	1417041	850225	1983857	1525403	7.65
88 Chlorobenzene-d5	1320371	792223	1848519	1416770	7.30

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-07A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 5.0"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.483	84.83	70-130
\$ 80 Toluene-d8	10.000	9.431	94.31	70-130
\$ 100 Bromofluorobenzene	10.000	10.125	101.25	70-130

Date : 29-SEP-2010 09:29

Client ID:

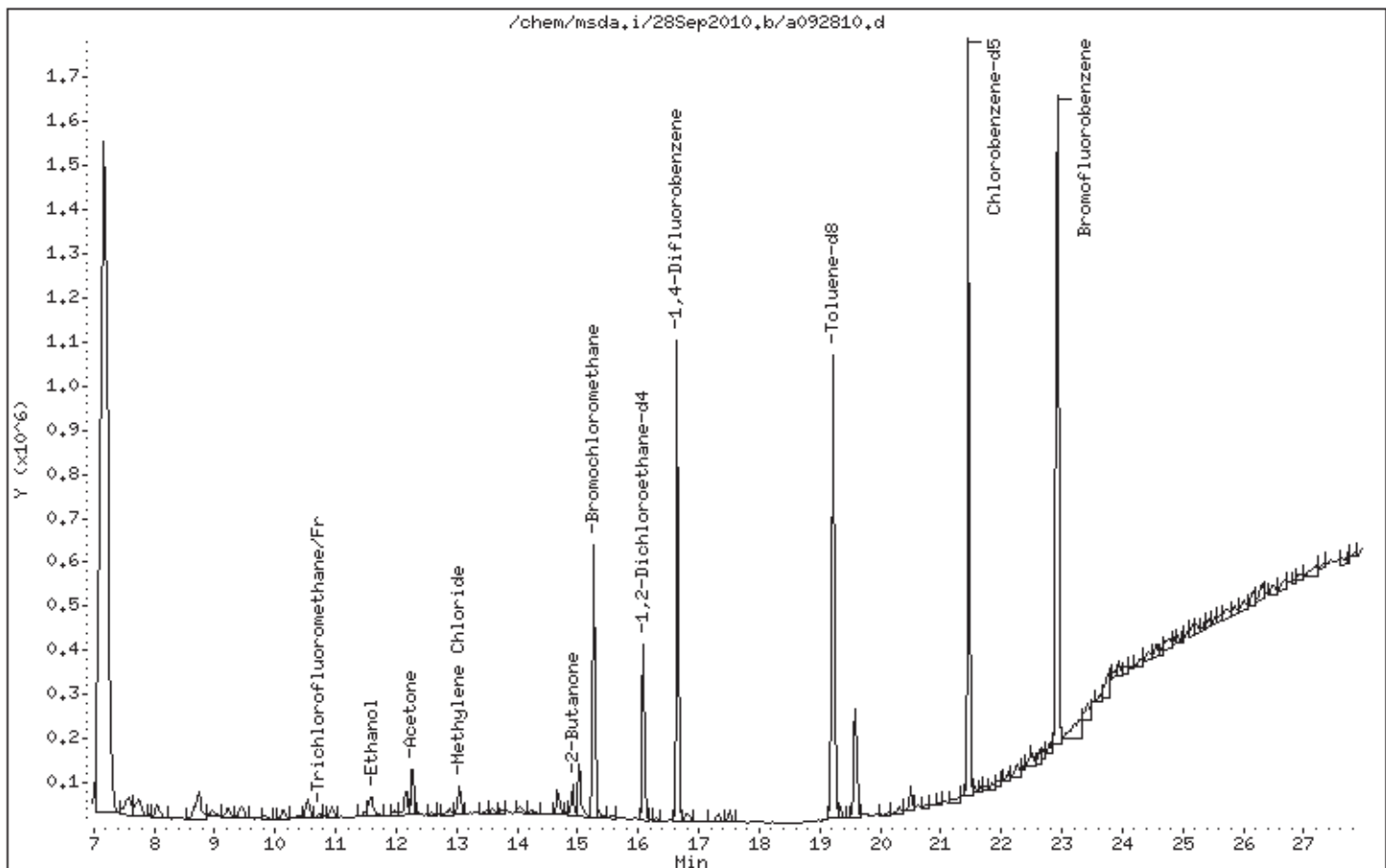
Instrument: msda.i

Sample Info: 250ml #34351

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

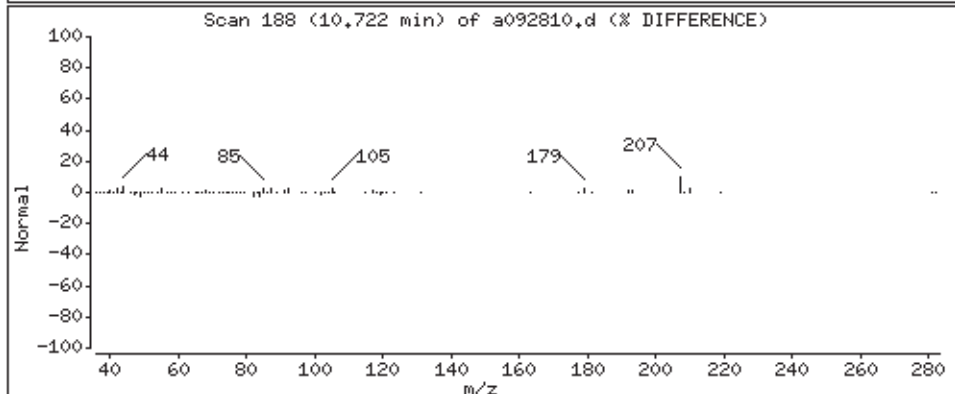
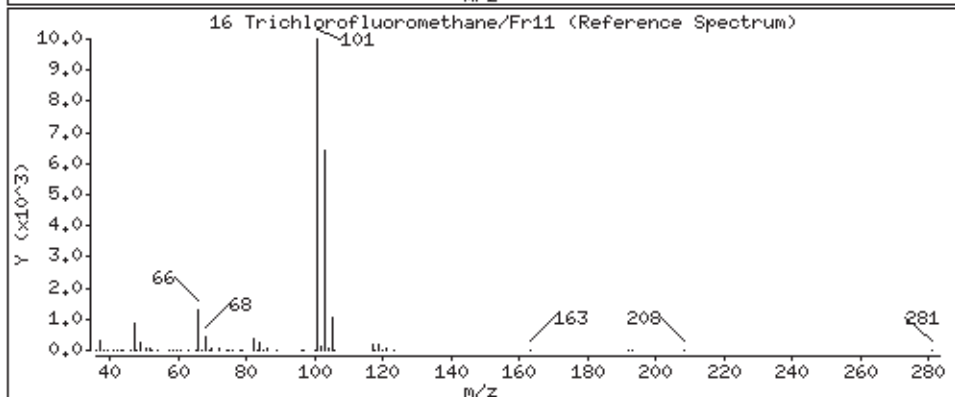
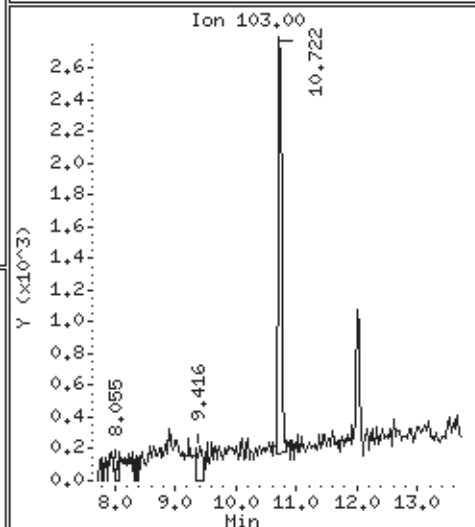
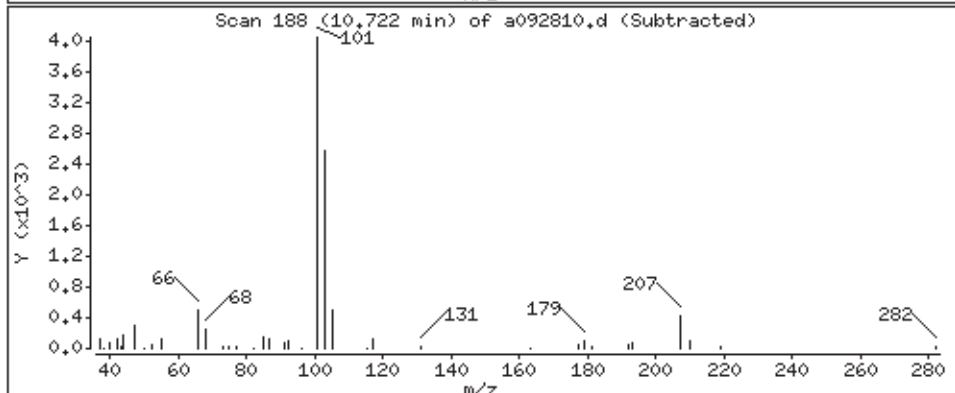
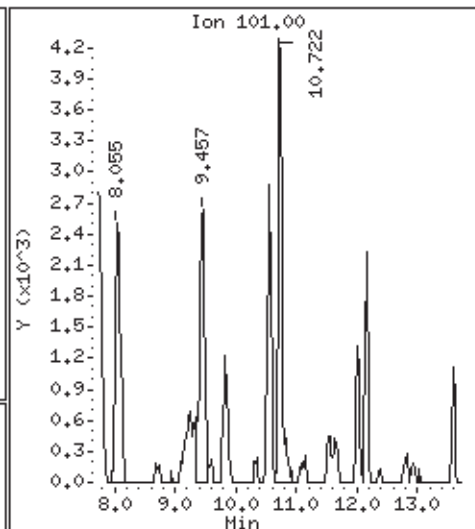
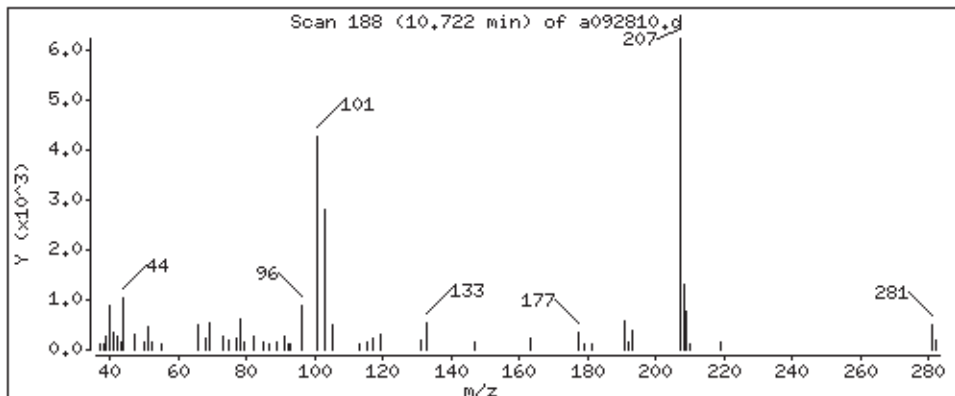
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.2285 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

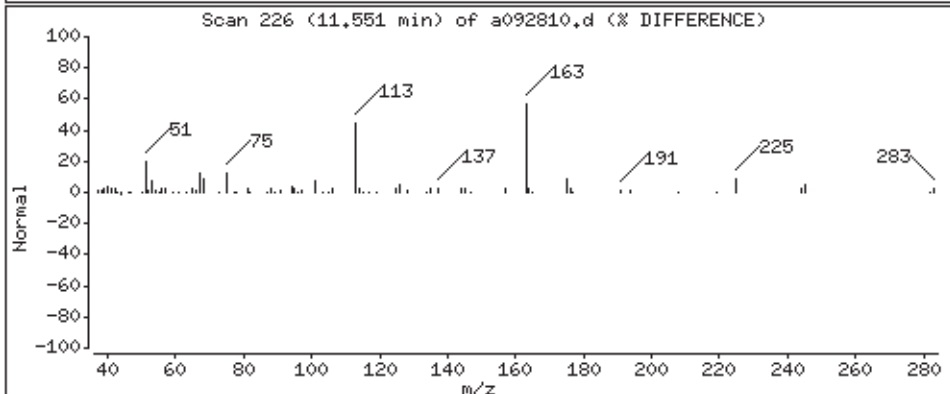
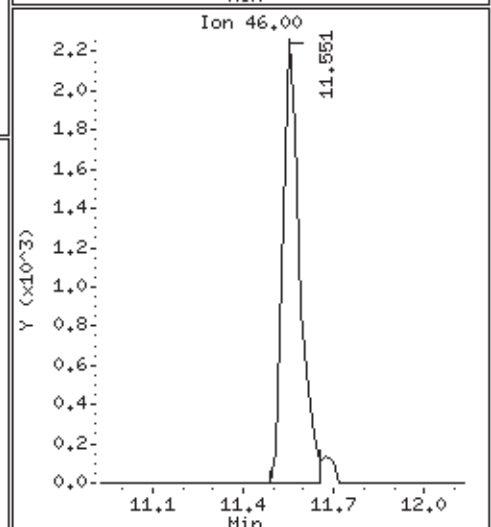
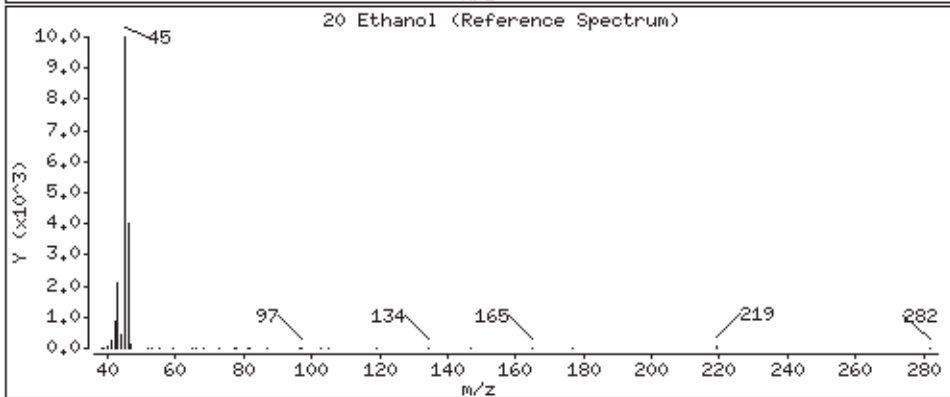
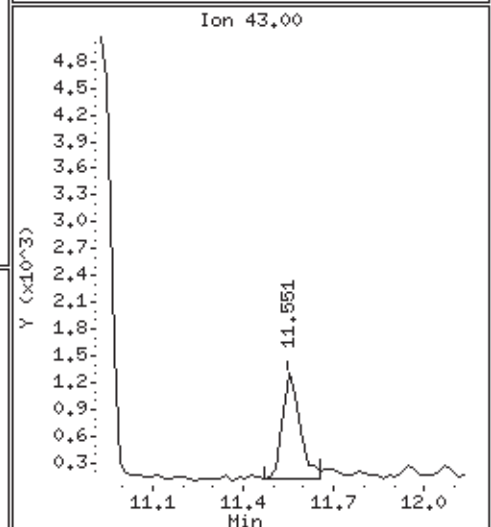
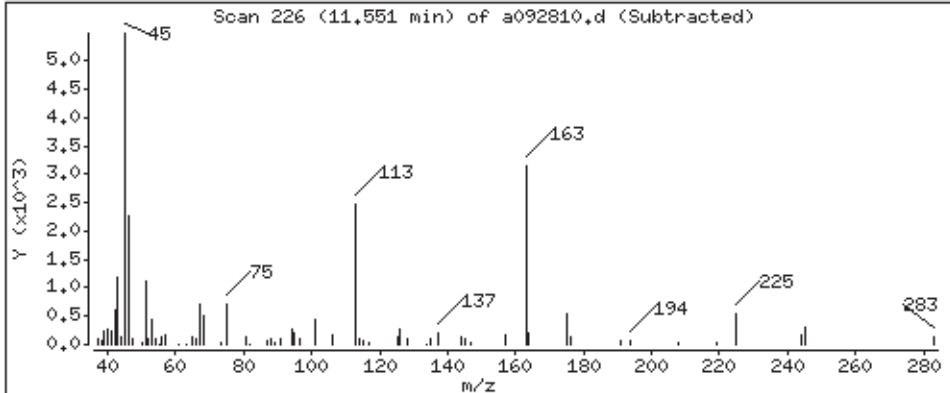
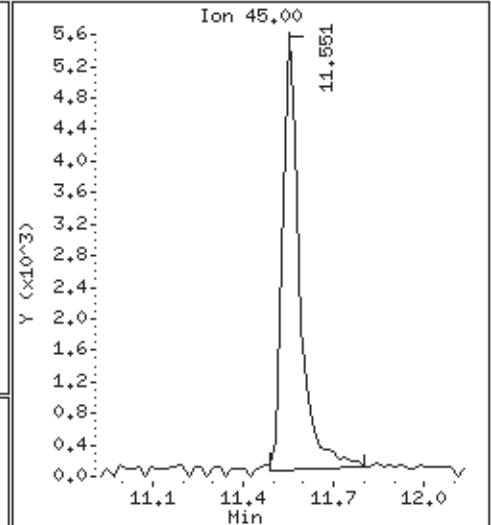
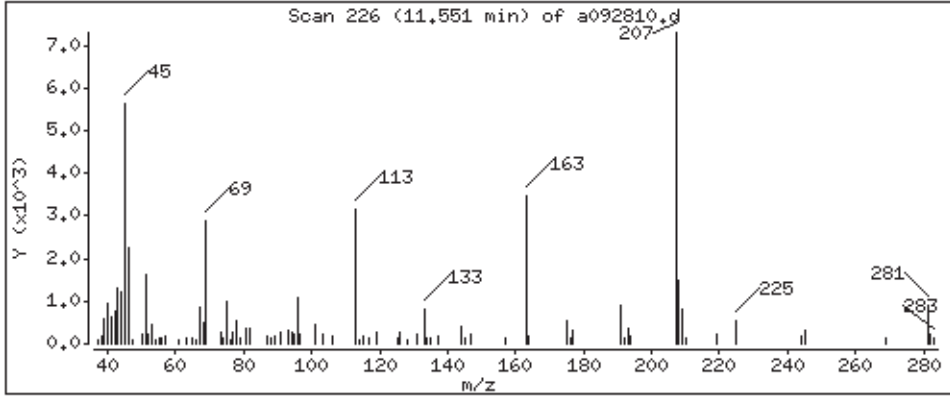
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 2,119 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

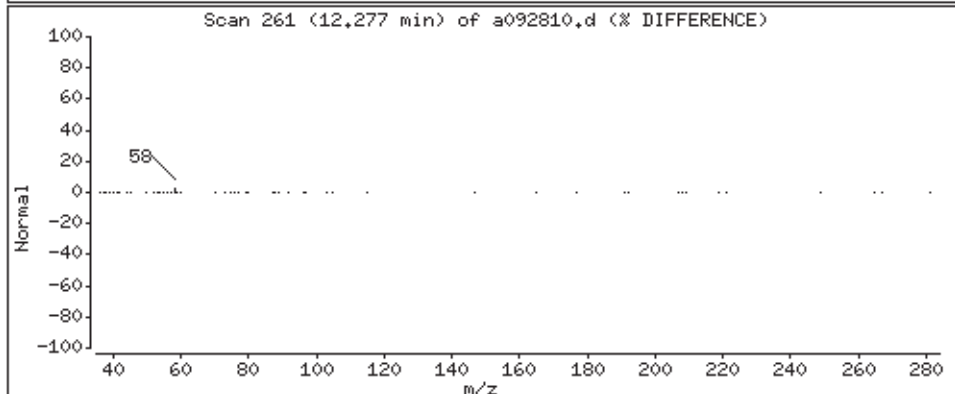
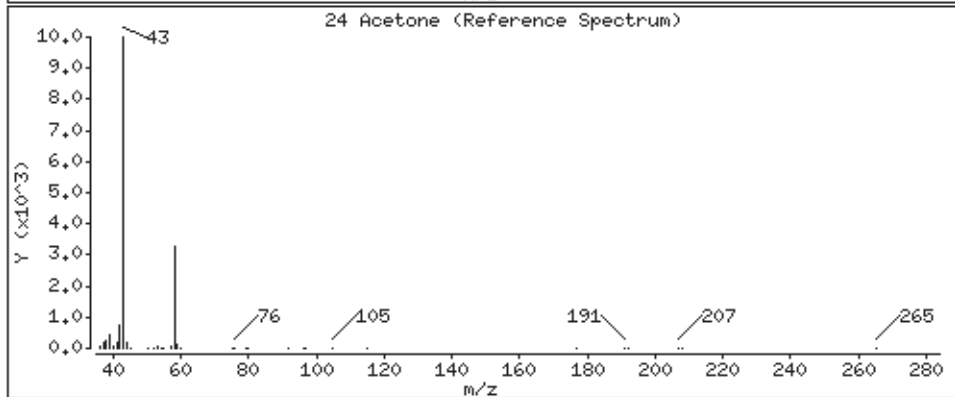
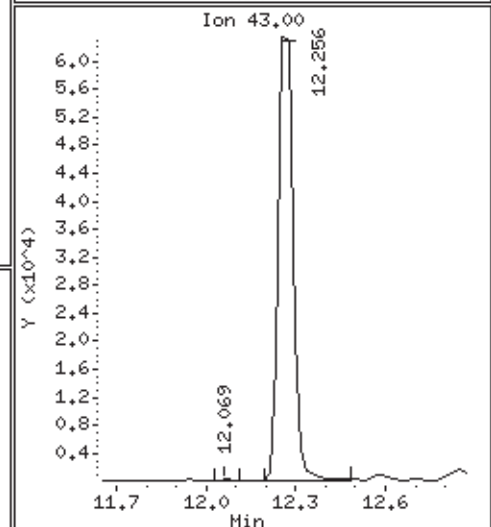
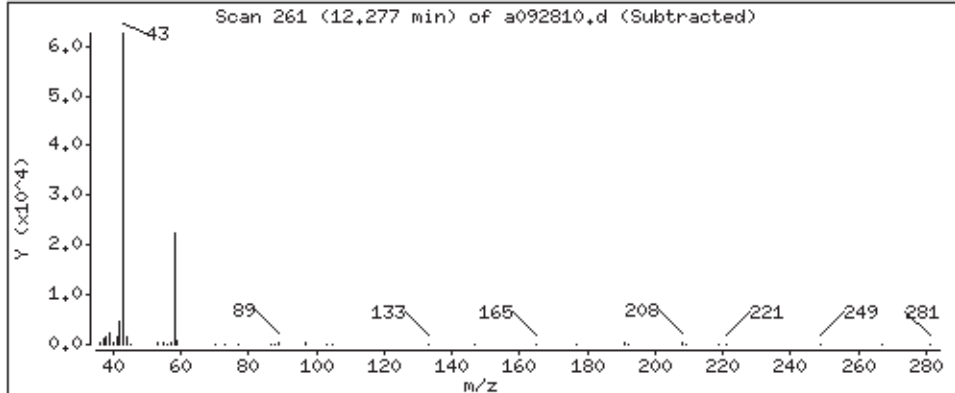
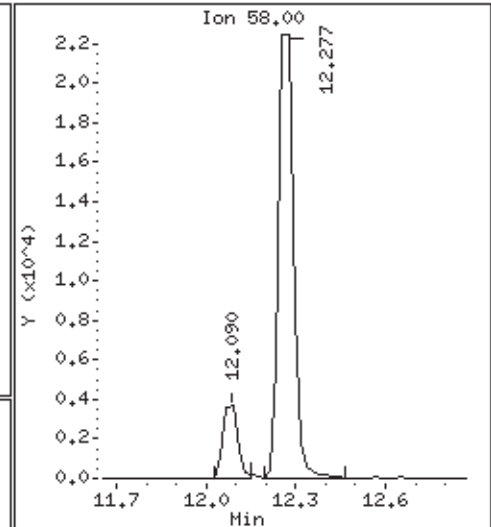
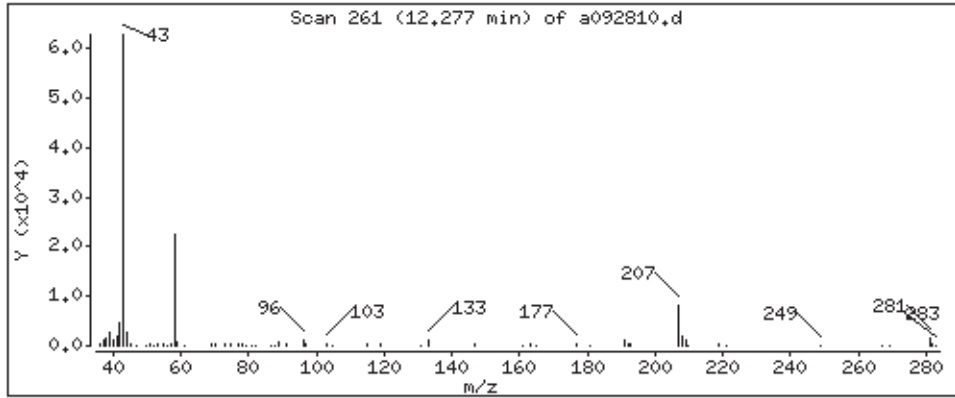
Operator: cr

Column phase: RTx-624

Column diameter: 0.32

24 Acetone

Concentration: 5.794 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

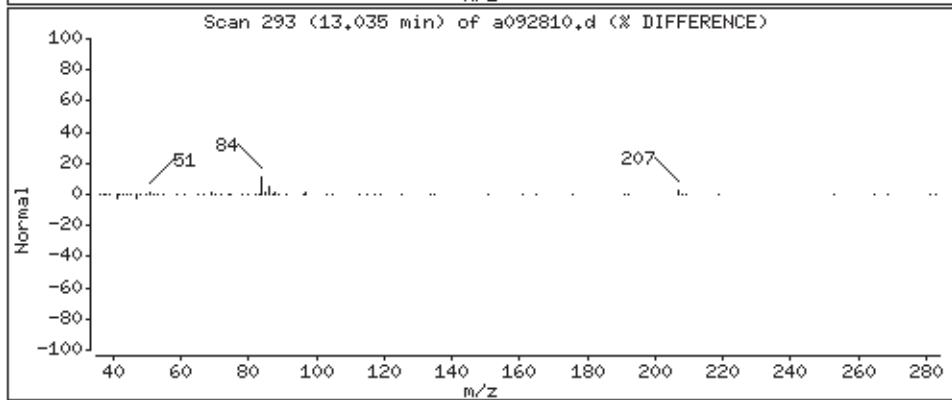
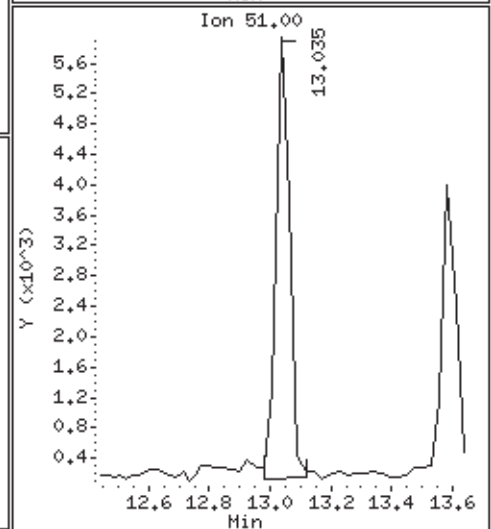
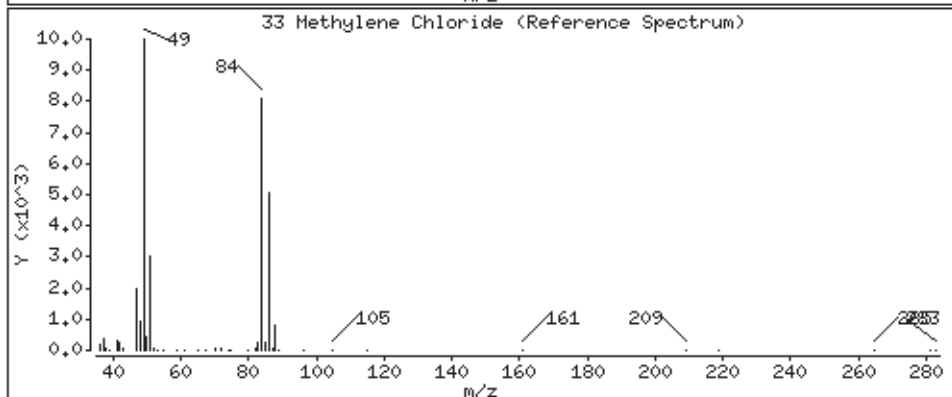
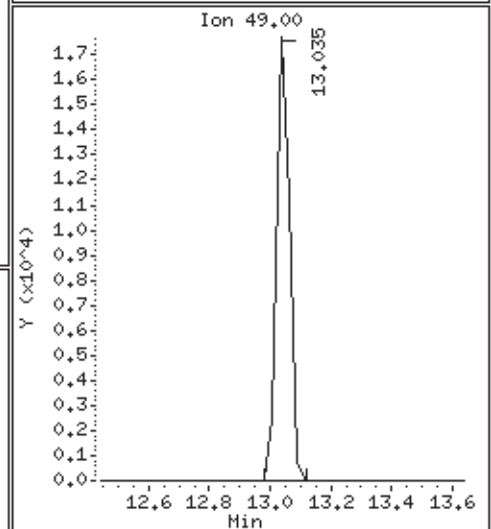
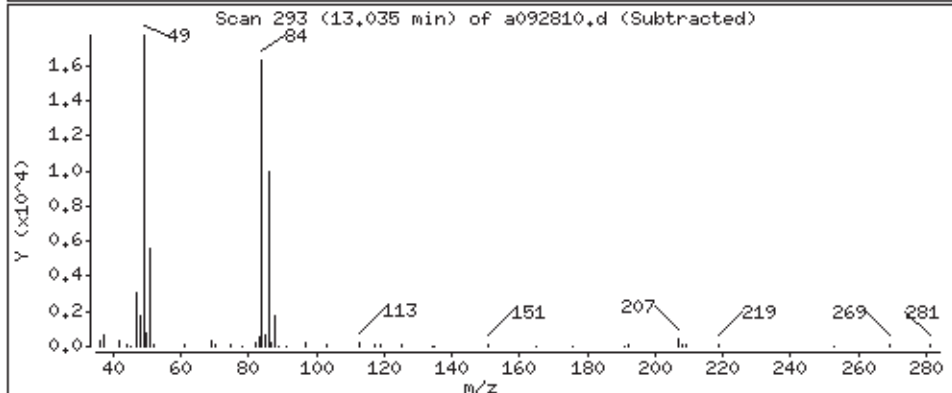
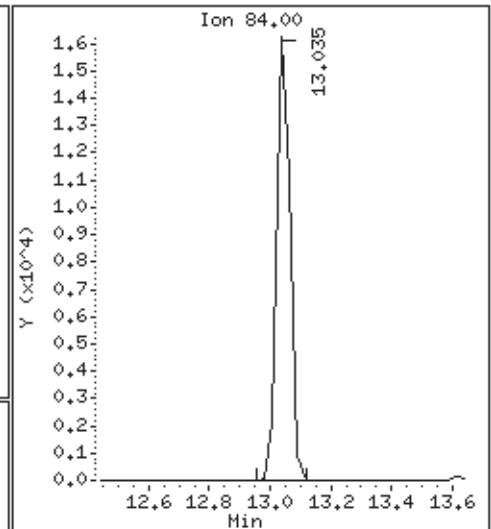
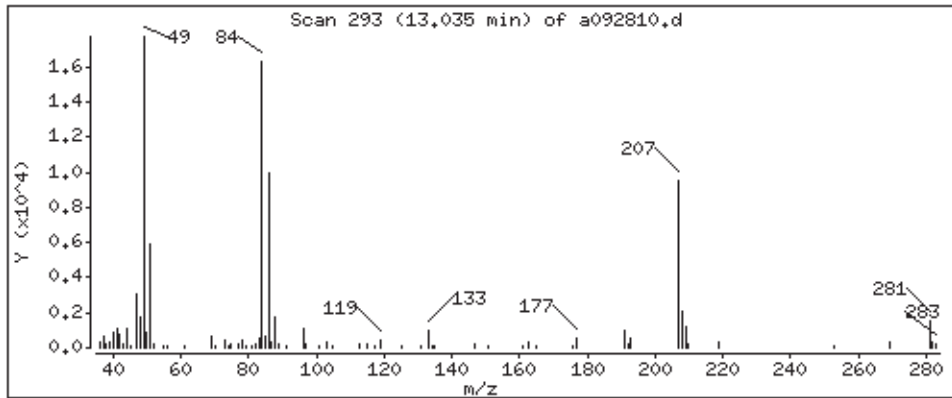
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

33 Methylene Chloride

Concentration: 1,688 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

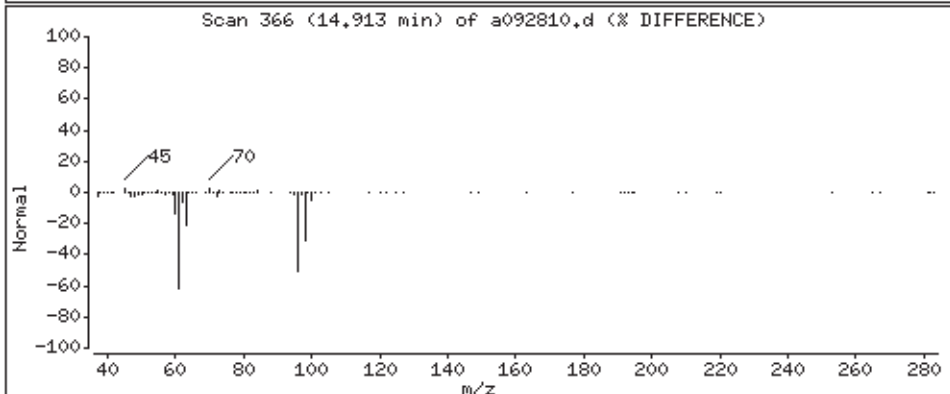
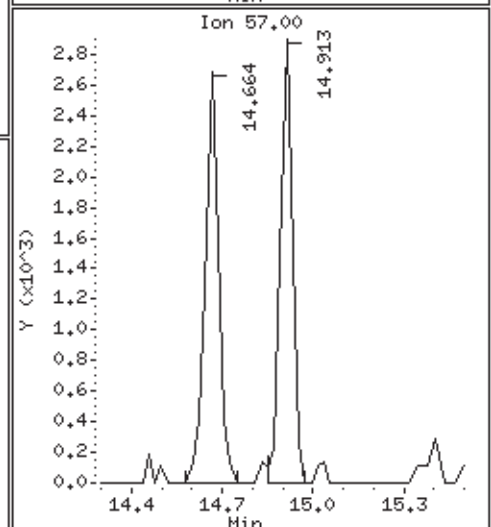
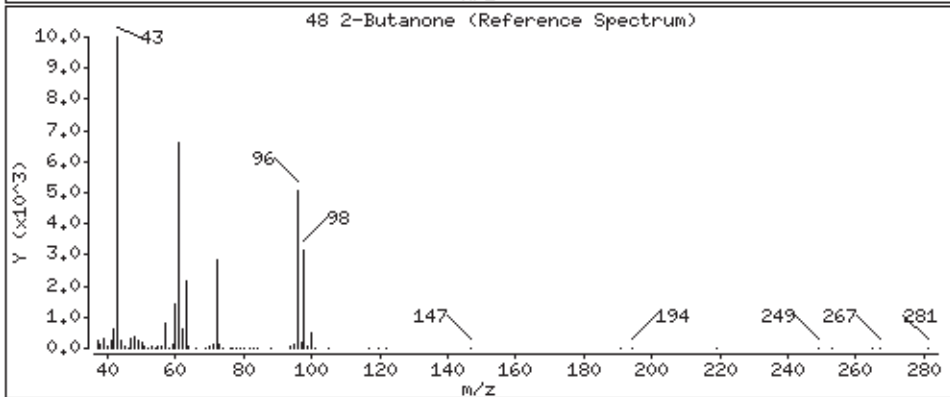
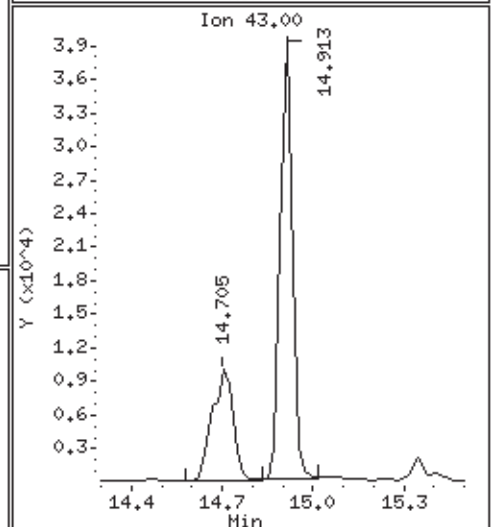
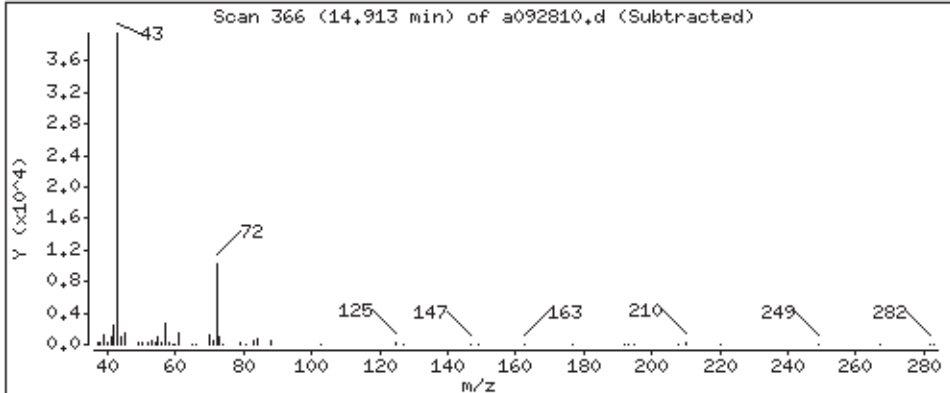
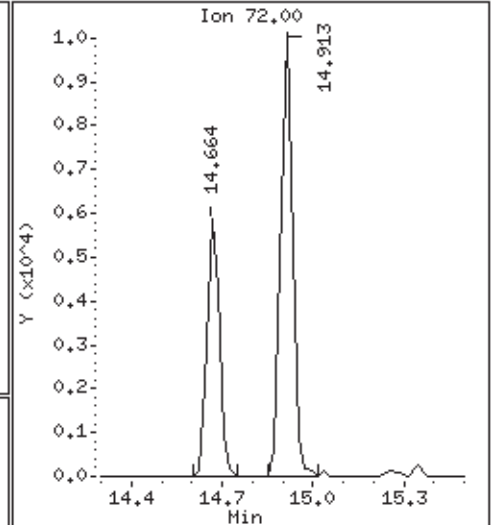
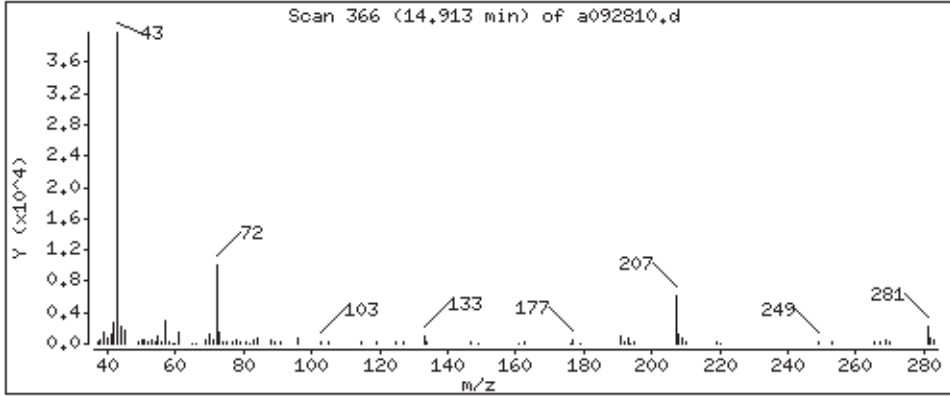
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 1.479 PPBV



Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AOS-2

Lab ID#: 1009208-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.23	0.041	0.59
Benzene	0.080	0.085	0.26	0.27
Toluene	0.032	0.27	0.12	1.0
m,p-Xylene	0.064	0.084	0.28	0.36

Client Sample ID: AOS-2

Lab ID#: 1009208-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092810sim	Date of Collection: 9/7/10 3:44:00 PM
Dil. Factor:	1.61	Date of Analysis: 9/29/10 09:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.23	0.041	0.59
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Benzene	0.080	0.085	0.26	0.27
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.27	0.12	1.0
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	Not Detected	0.22	Not Detected
Ethyl Benzene	0.032	Not Detected	0.14	Not Detected
m,p-Xylene	0.064	0.084	0.28	0.36
o-Xylene	0.032	Not Detected	0.14	Not Detected
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092810sim.d
Lab Smp Id: 1009208-07B
Inj Date : 29-SEP-2010 09:29
Operator : cr Inst ID: msda.i
Smp Info : 250ml #34351
Misc Info : 5.0"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.61000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31							CAS #:	74-97-5	
15.267	15.269	(1.000)	130	370033	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	286955				0.00- 30.00	77.55
15.267	15.269	(1.000)	49	414790				0.00- 30.00	112.10

\$ 37							CAS #:	17060-07-0	
16.082	16.084	(1.053)	65	481019	8.78254	8.782		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	261942				0.00- 30.00	54.46

* 40							CAS #:	540-36-3	
16.659	16.661	(1.000)	114	1593481	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	255696				0.00- 46.17	16.05

\$ 47							CAS #:	2037-26-5	
19.223	19.225	(1.154)	98	1415872	9.96852	9.968		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	161326				0.00- 41.52	11.39
19.223	19.225	(1.154)	100	952261				36.81- 96.81	67.26

* 56							CAS #:	3114-55-4	
21.468	21.469	(1.000)	117	1475132	10.0000			80.00- 120.00	100.00

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

* 56 Chlorobenzene-d5 (continued)

21.468	21.469 (1.000)	82	788661			0.00- 30.00	53.46
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\$ 66 Bromofluorobenzene

CAS #: 460-00-4

22.920	22.922 (1.068)	174	772902	10.3957	10.396	80.00- 120.00	100.00
22.920	22.922 (1.068)	95	1004180			100.82- 160.82	129.92
22.920	22.922 (1.068)	176	748691			66.99- 126.99	96.87

5 Vinyl Chloride

CAS #: 75-01-4

7.947	7.897 (0.520)	62	8253	0.14426	0.2322	80.00- 120.00	100.00
7.947	7.897 (0.520)	64	682			1.85- 61.85	8.26

36 Benzene

CAS #: 71-43-2

16.110	16.112 (0.967)	78	10726	0.05275	0.08492	80.00- 120.00	100.00
16.110	16.112 (0.967)	77	3222			0.00- 30.00	30.04

48 Toluene

CAS #: 108-88-3

19.335	19.337 (1.161)	91	36799	0.16530	0.2661	80.00- 120.00	100.00
19.335	19.337 (1.161)	92	22091			30.39- 90.39	60.03

59 m,p-Xylene

CAS #: 108-38-3

21.733	21.735 (1.012)	106	4340	0.05190	0.08356	80.00- 120.00	100.00
21.733	21.735 (1.012)	91	9749			0.00- 30.00	224.61

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-07B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 5.0"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.782	87.83	70-130
\$ 47 Toluene-d8	10.000	9.968	99.69	70-130
\$ 66 Bromofluorobenzene	10.000	10.396	103.96	70-130

Data File: /chem/msda.i/28Sep2010.b/a092810s.im.d

Date: 29-SEP-2010 09:29

Client ID:

Sample Info: 250ml #34361

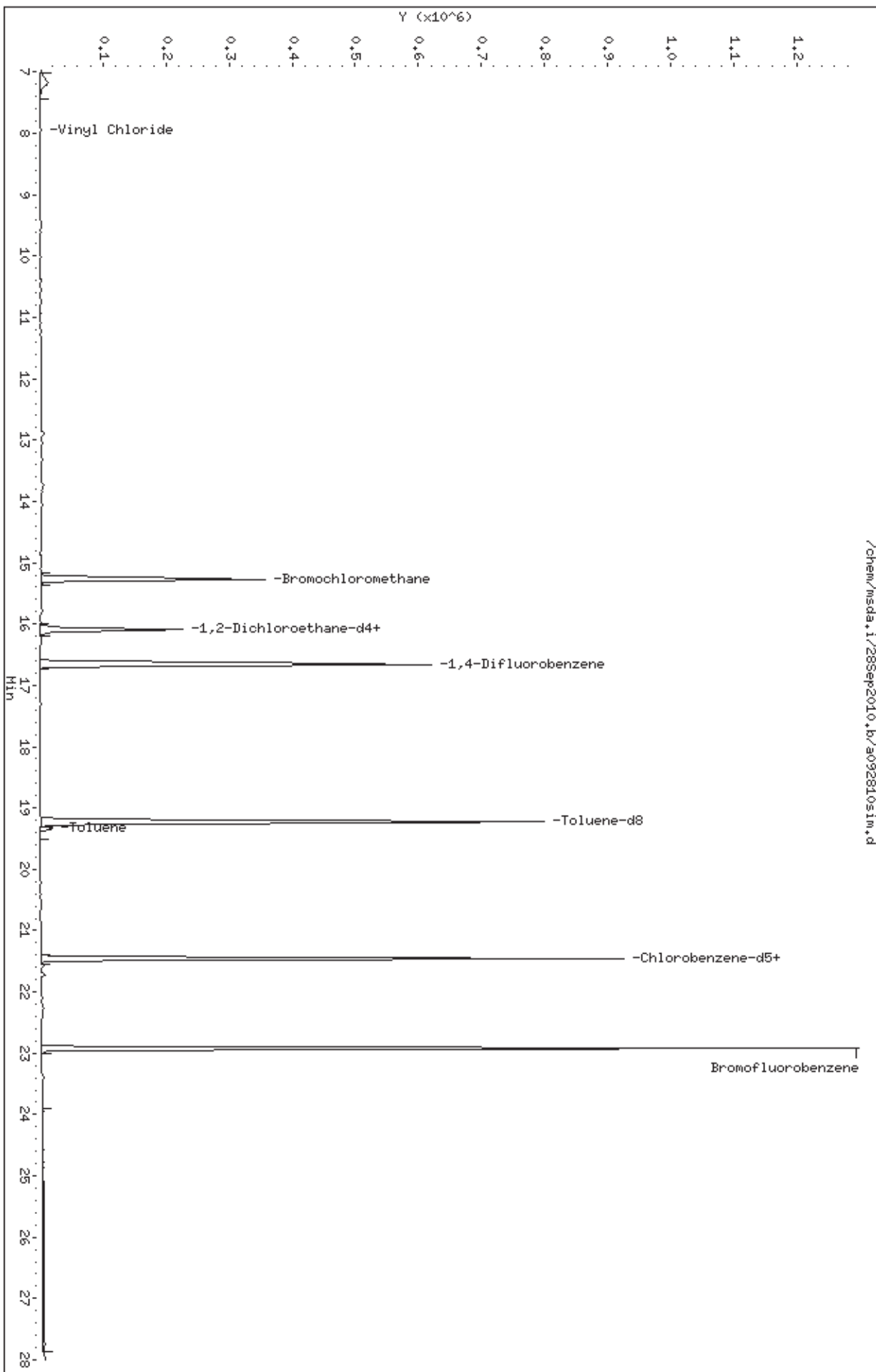
Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53

Page 1



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

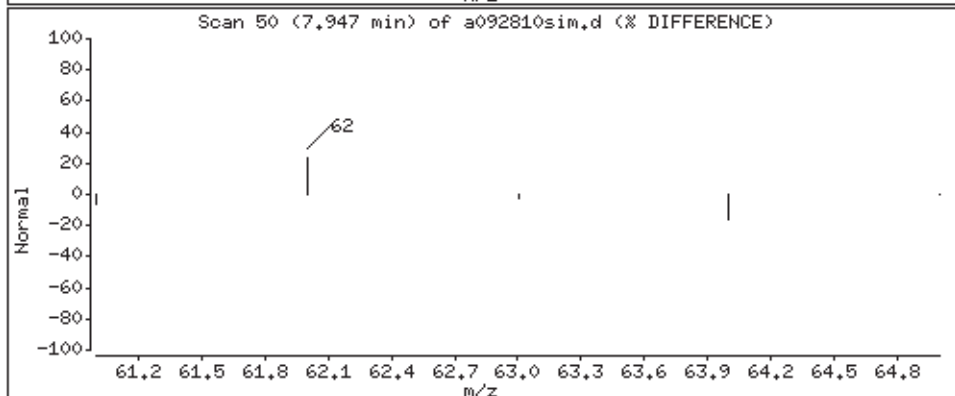
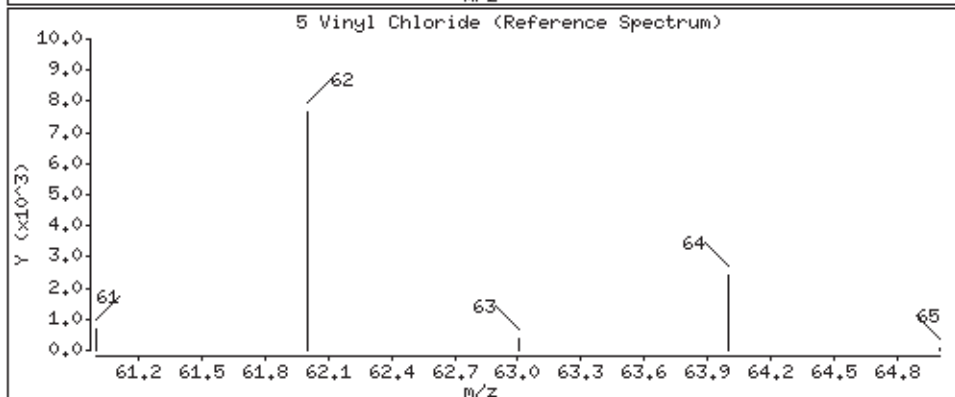
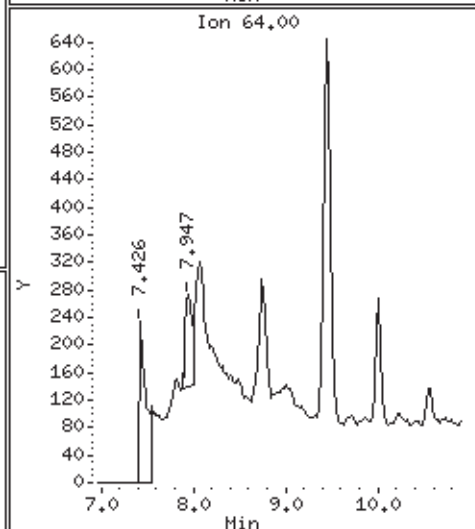
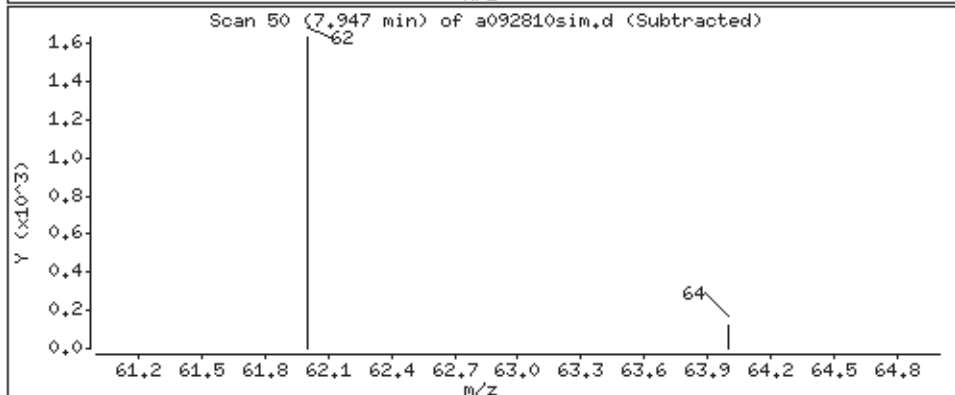
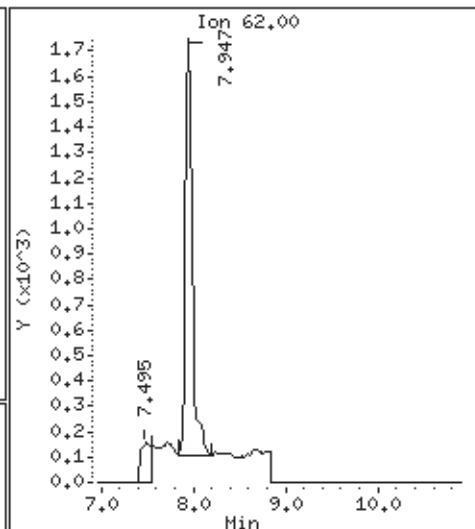
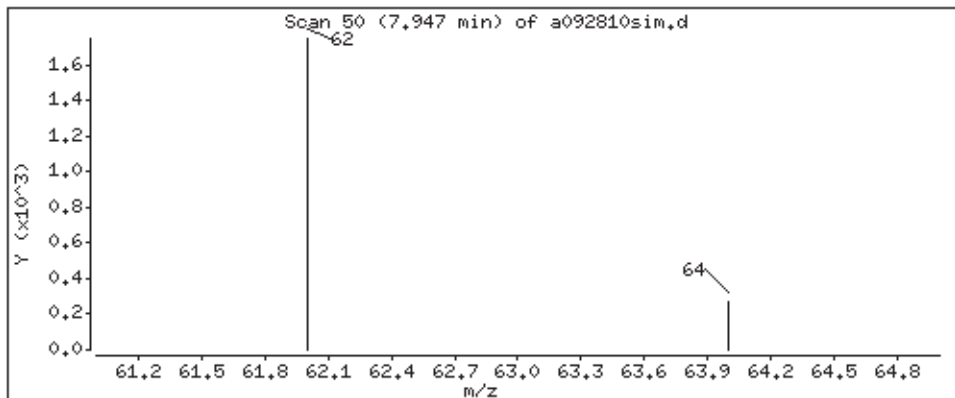
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.2322 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

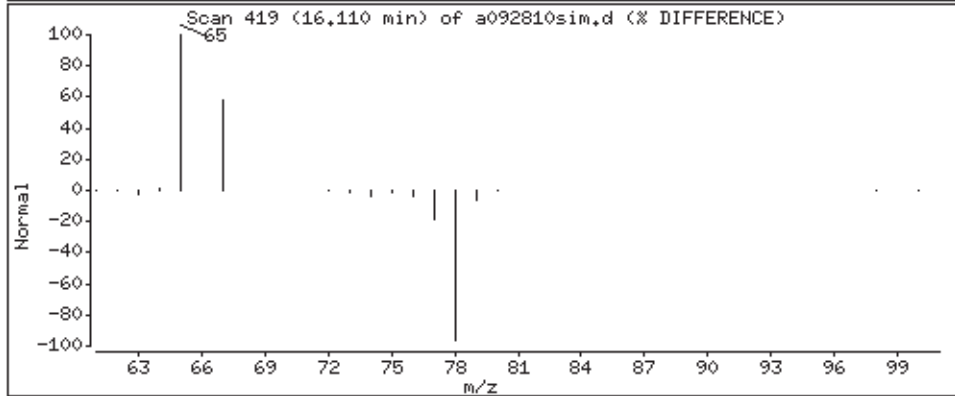
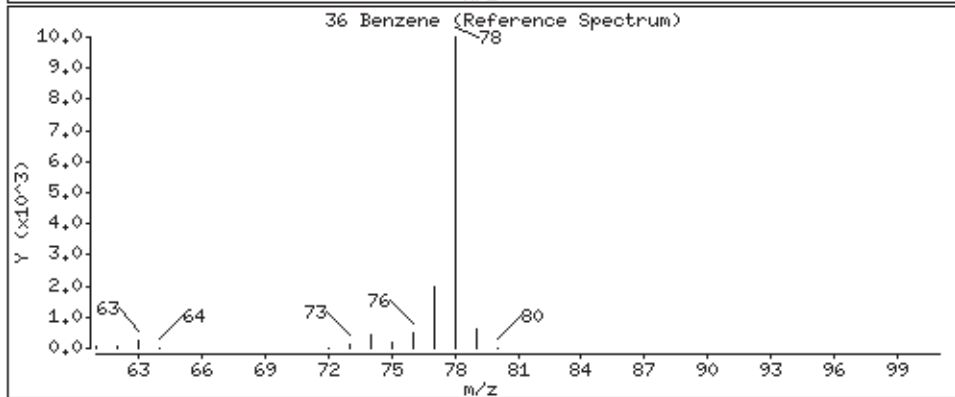
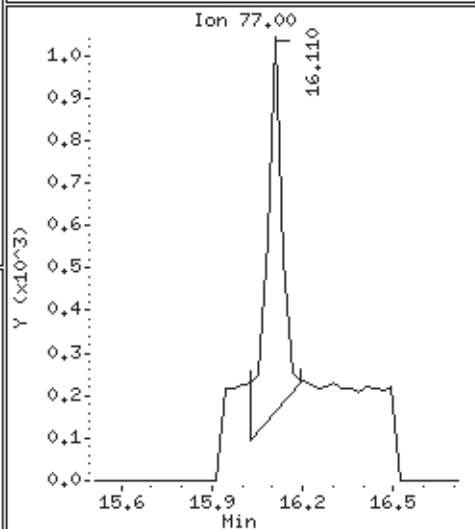
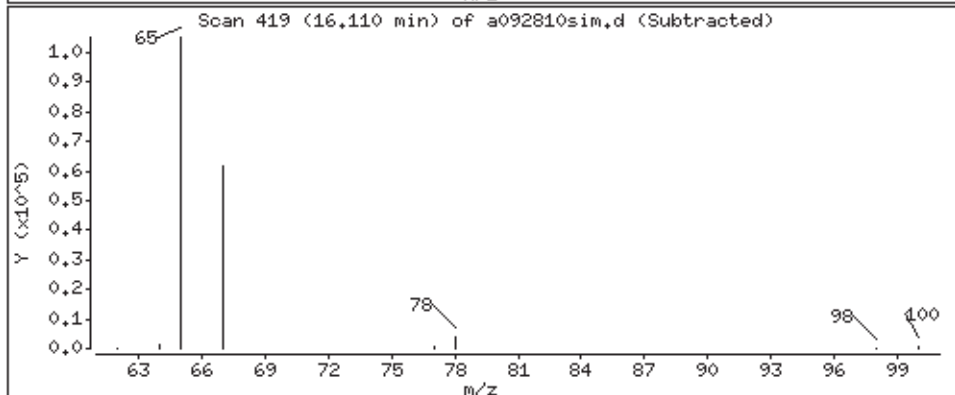
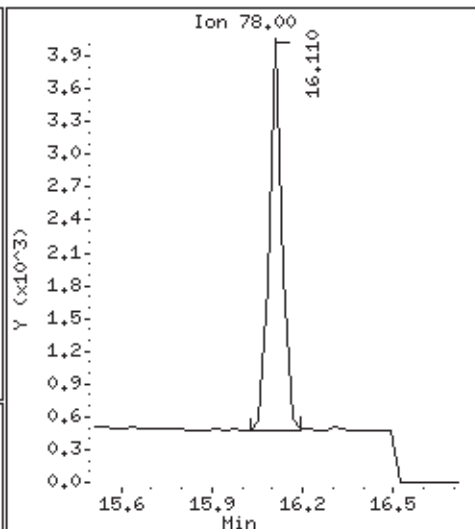
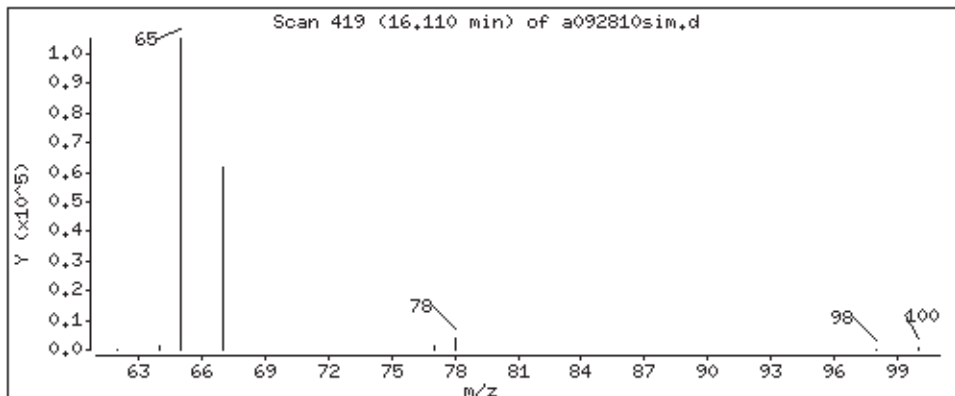
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

36 Benzene

Concentration: 0.08492 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

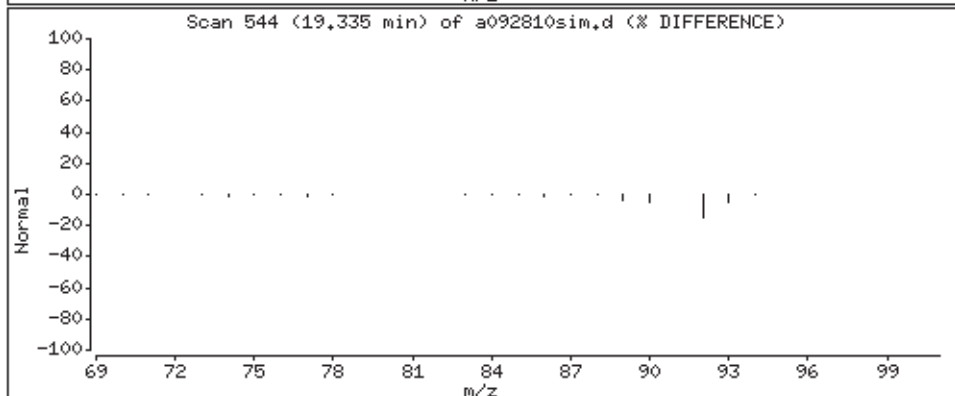
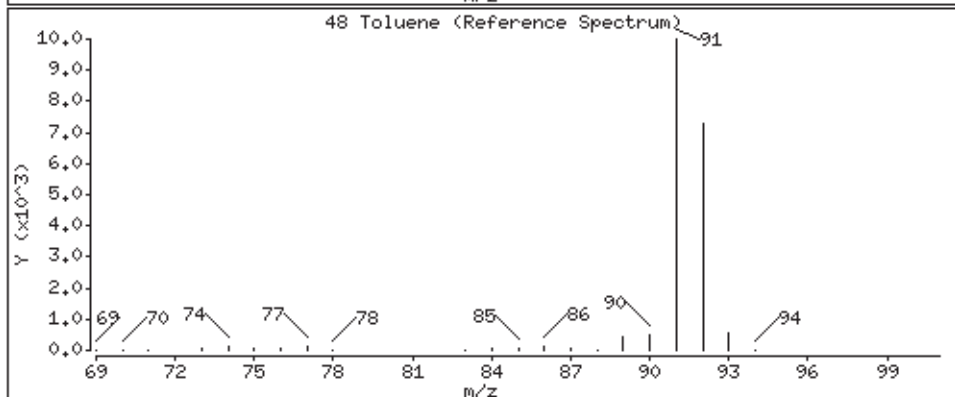
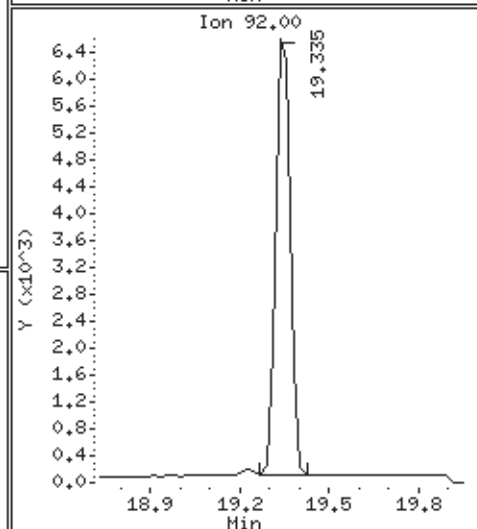
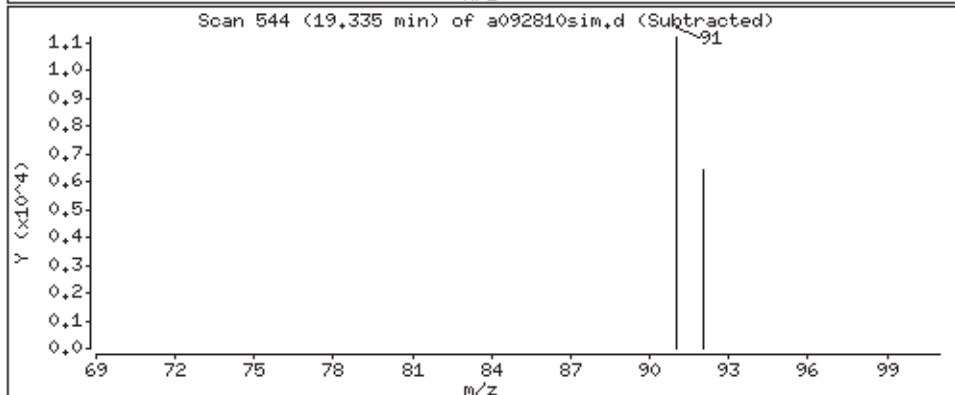
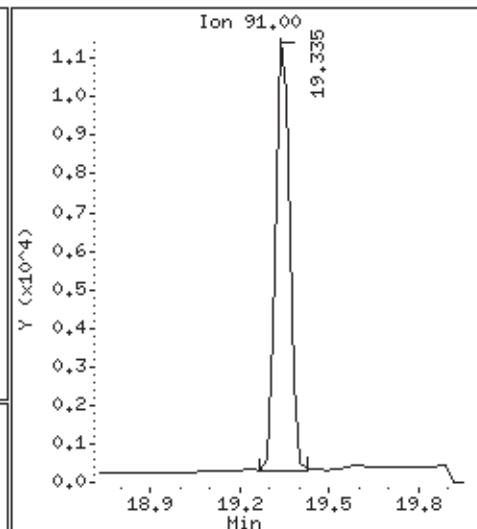
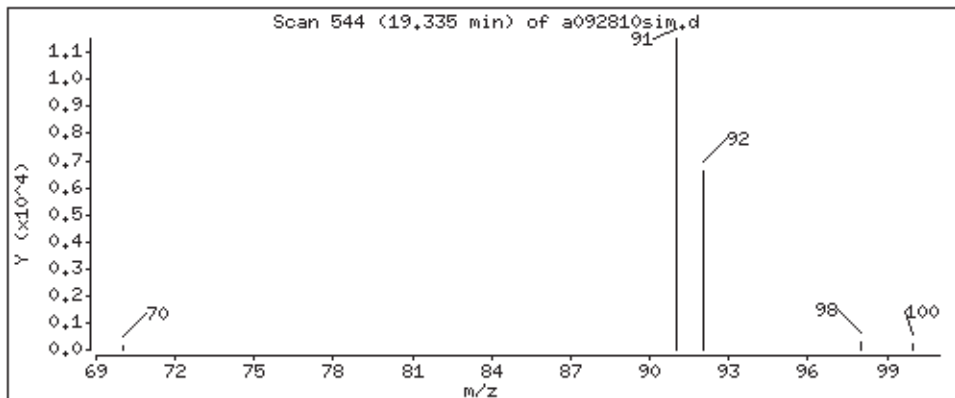
Operator: cr

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.2661 PPBV



Date : 29-SEP-2010 09:29

Client ID:

Instrument: msda.i

Sample Info: 250ml #34351

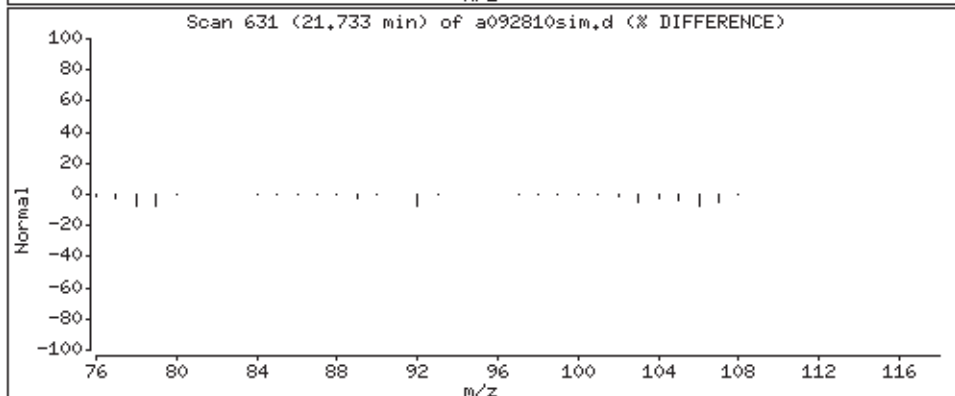
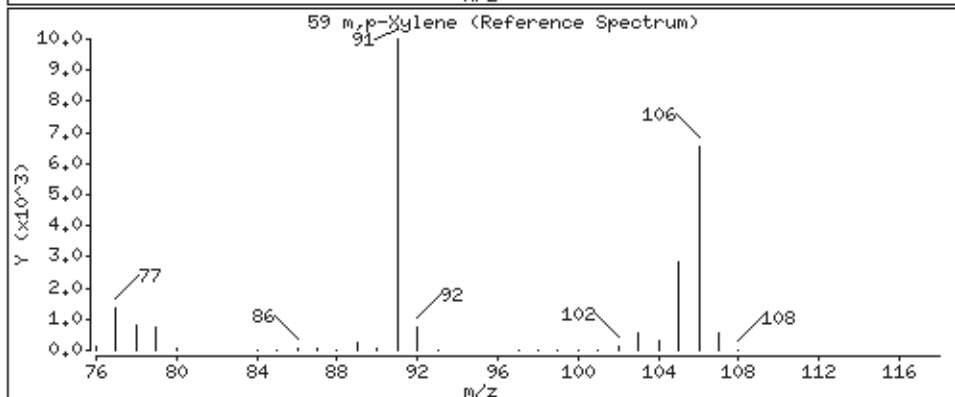
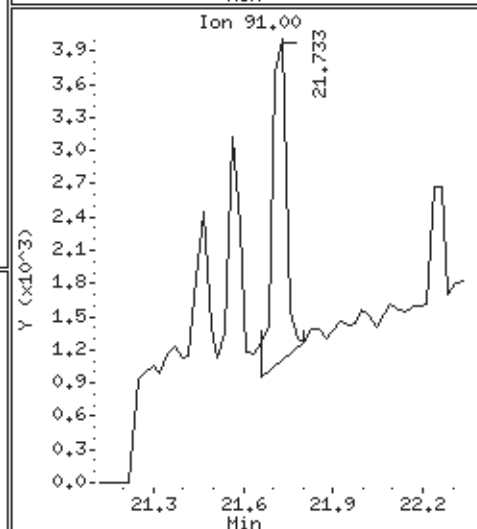
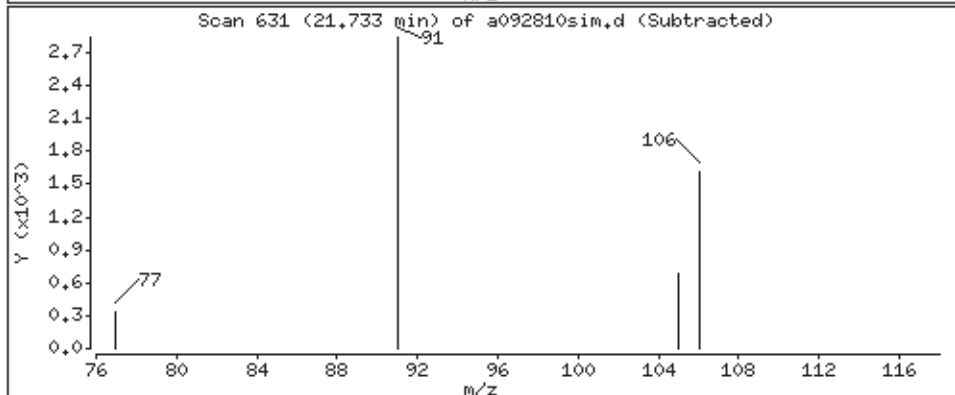
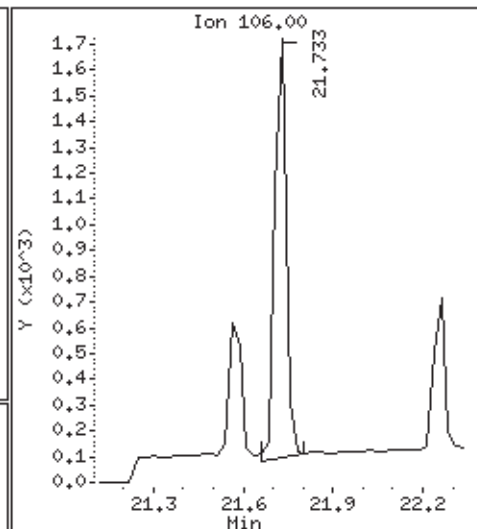
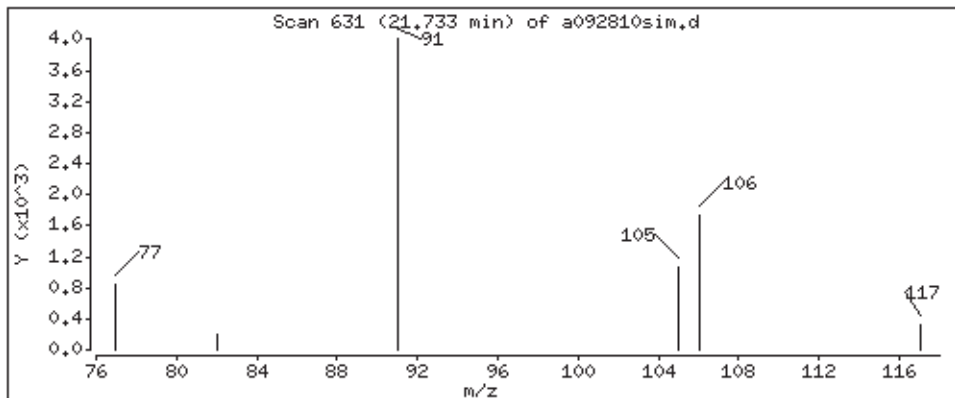
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

59 m,p-Xylene

Concentration: 0.08356 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AOS-3

Lab ID#: 1009208-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.23	0.96	1.3
Ethanol	0.86	1.1	1.6	2.0
Acetone	0.86	3.3	2.0	7.8
2-Butanone (Methyl Ethyl Ketone)	0.17	0.26	0.50	0.76

Client Sample ID: AOS-3

Lab ID#: 1009208-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092811	Date of Collection: 9/7/10 4:01:00 PM
Dil. Factor:	1.71	Date of Analysis: 9/29/10 10:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.17	Not Detected	0.35	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.17	Not Detected	0.66	Not Detected
Chloroethane	0.17	Not Detected	0.45	Not Detected
Freon 11	0.17	0.23	0.96	1.3
Ethanol	0.86	1.1	1.6	2.0
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.86	3.3	2.0	7.8
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.17	0.26	0.50	0.76
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected



Client Sample ID: AOS-3

Lab ID#: 1009208-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092811	Date of Collection:	9/7/10 4:01:00 PM
Dil. Factor:	1.71	Date of Analysis:	9/29/10 10:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092811.d
 Lab Smp Id: 1009208-08A
 Inj Date : 29-SEP-2010 10:24
 Operator : cr Inst ID: msda.i
 Smp Info : 250ml #12711
 Misc Info : 6.5"Hg - 5psi
 Comment :
 Method : /chem/msda.i/28Sep2010.b/a1010915a.m
 Meth Date : 29-Sep-2010 11:04 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
 Als bottle: 32
 Dil Factor: 1.71000
 Integrator: HP RTE Compound Sublist: EXPO14301.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.253	15.255	(1.000)	130	360568	10.0000			80.00- 120.00	100.00
15.253	15.255	(1.000)	128	277452				48.35- 108.35	76.95
15.253	15.255	(1.000)	49	383741				89.31- 149.31	106.43

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.645	16.647	(1.000)	114	1478313	10.0000			80.00- 120.00	100.00
16.645	16.647	(1.000)	88	235322				0.00- 46.24	15.92

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.454	21.456	(1.000)	117	1379810	10.0000			80.00- 120.00	100.00
21.454	21.456	(1.000)	82	754793				25.95- 85.95	54.70

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.096	16.098	(1.055)	65	449182	8.57073	8.571		80.00- 120.00	100.00
16.096	16.098	(1.055)	67	241190				0.00- 30.00	53.70

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.232	19.211	(1.155)	98	1419215	9.42585	9.426		80.00- 120.00	100.00
19.209	19.211	(1.154)	70	152404				0.00- 30.00	10.74

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)										
19.232	19.211	(1.155)	100	969331			37.86-	97.86	68.30	

\$ 100 Bromofluorobenzene										
						CAS #: 460-00-4				
22.932	22.934	(1.069)	174	714178	10.1301	10.130	80.00-	120.00	100.00	
22.932	22.934	(1.069)	95	920503			98.89-	158.89	128.89	
22.932	22.934	(1.069)	176	696622			67.15-	127.15	97.54	

16 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
10.722	10.724	(0.703)	101	17898	0.13287	0.2272	80.00-	120.00	100.00	
10.722	10.724	(0.703)	103	10328			35.14-	95.14	57.70	

20 Ethanol										
						CAS #: 64-17-5				
11.551	11.532	(0.757)	45	10180	0.63016	1.078	80.00-	120.00	100.00	
11.551	11.532	(0.757)	43	2550			0.00-	30.00	25.05	
11.551	11.532	(0.757)	46	3416			0.00-	30.00	33.56	

24 Acetone										
						CAS #: 67-64-1				
12.277	12.258	(0.805)	58	41015	1.91427	3.273	80.00-	120.00	100.00	
12.277	12.258	(0.805)	43	111447			0.00-	30.00	271.72	

48 2-Butanone										
						CAS #: 78-93-3				
14.913	14.915	(0.978)	72	4451	0.15057	0.2575	80.00-	120.00	100.00	
14.913	14.915	(0.978)	43	18046			0.00-	30.00	405.39	
14.913	14.915	(0.978)	57	1486			0.00-	30.00	33.39	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092811.d
 Lab Smp Id: 1009208-08A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
 Misc Info: 6.5"Hg - 5psi

Calibration Date: 28-SEP-2010
 Calibration Time: 19:58
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	360568	2.58
66 1,4-Difluorobenze	1417041	850225	1983857	1478313	4.32
88 Chlorobenzene-d5	1320371	792223	1848519	1379810	4.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-08A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 6.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.571	85.71	70-130
\$ 80 Toluene-d8	10.000	9.426	94.26	70-130
\$ 100 Bromofluorobenzene	10.000	10.130	101.30	70-130

Date : 29-SEP-2010 10:24

Client ID:

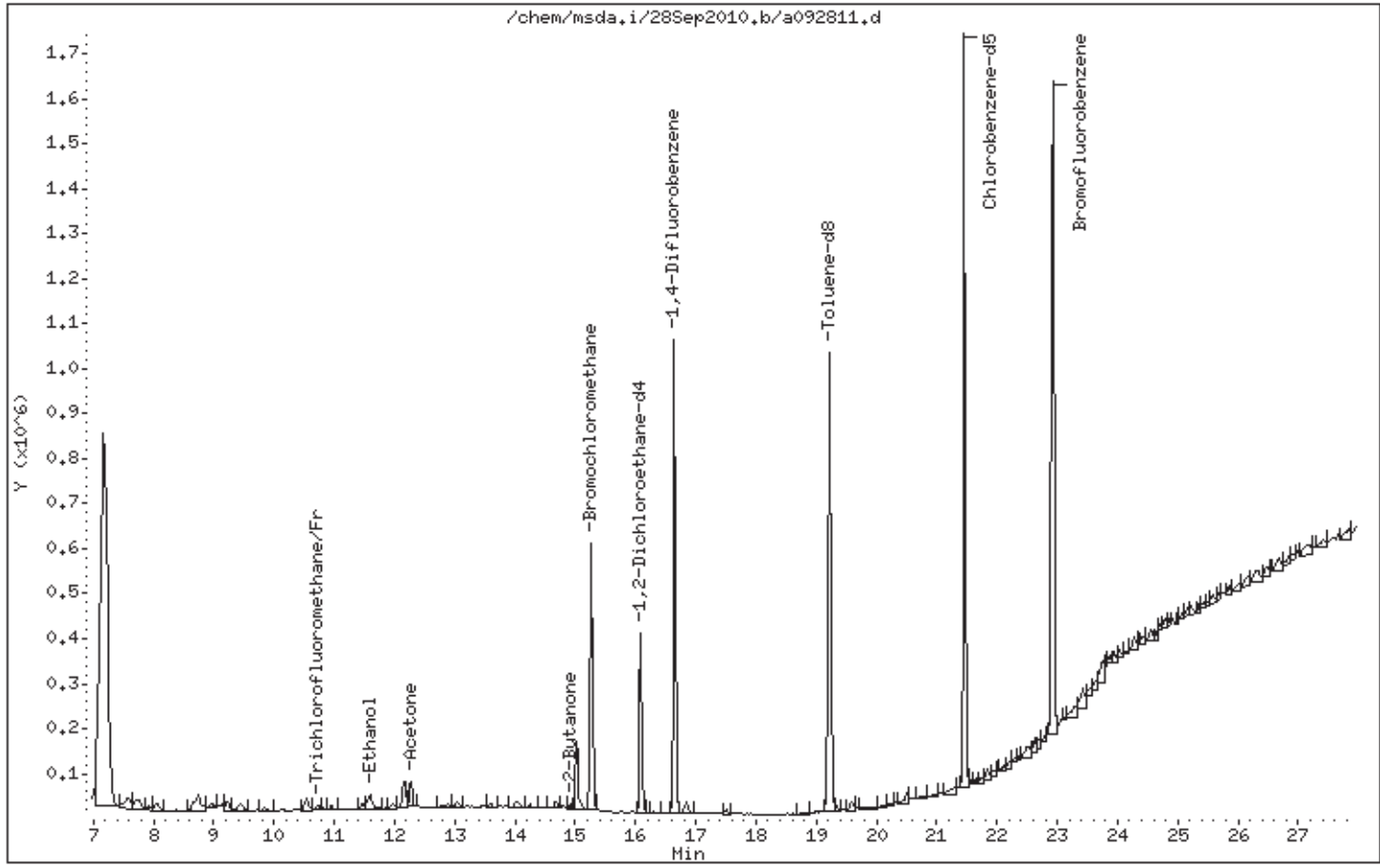
Instrument: msda,i

Sample Info: 250ml #12711

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Date : 29-SEP-2010 10:24

Client ID:

Instrument: msda.i

Sample Info: 250ml #12711

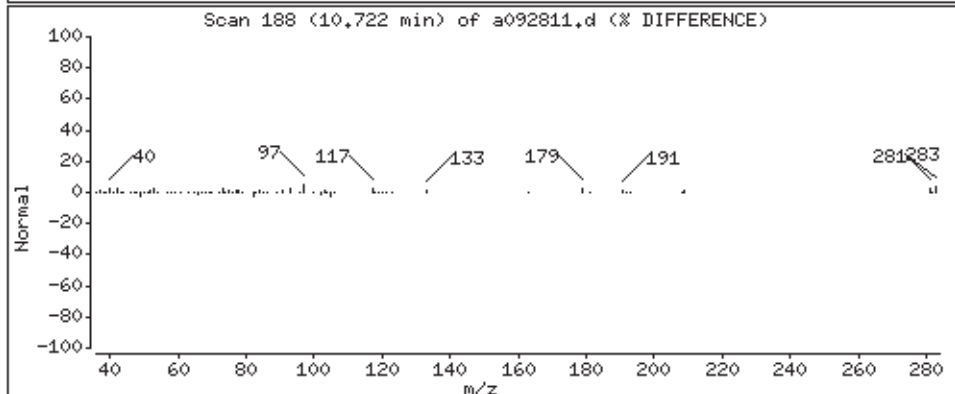
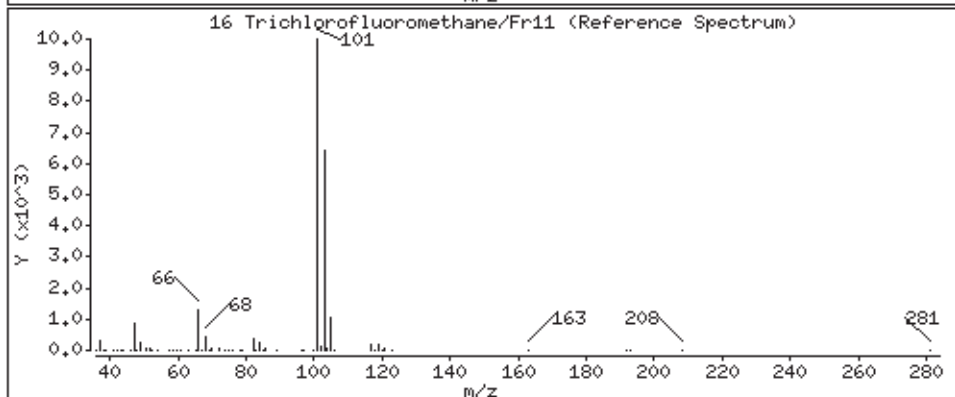
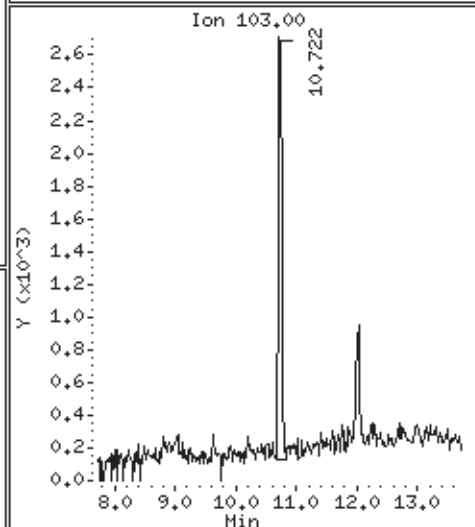
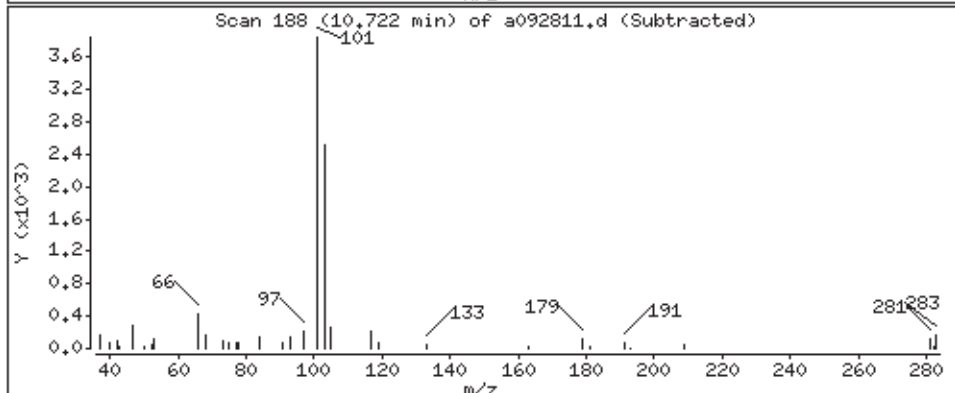
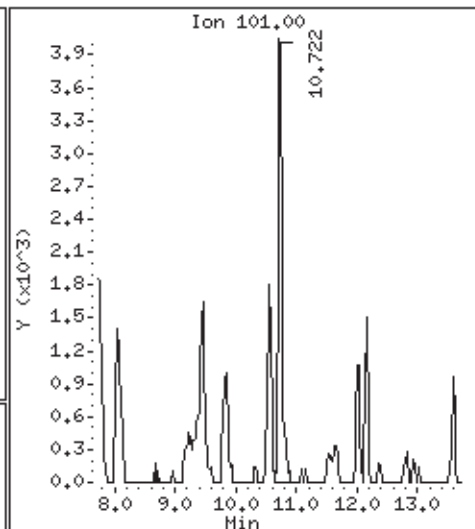
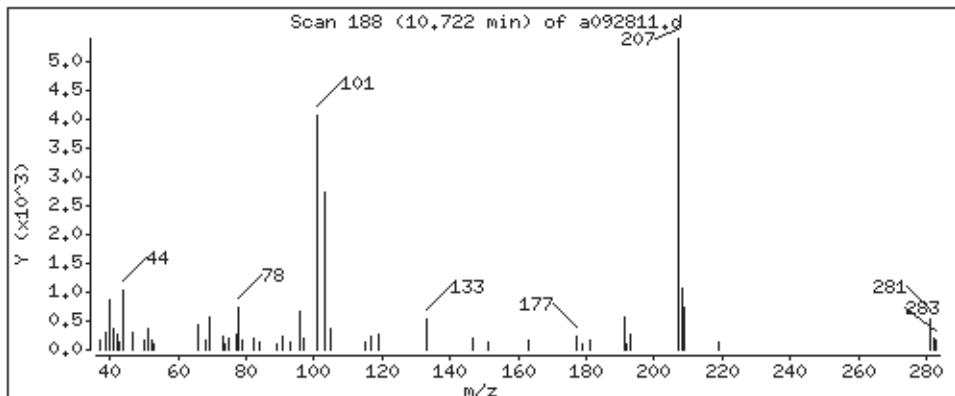
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.2272 PPBV



Date : 29-SEP-2010 10:24

Client ID:

Instrument: msda.i

Sample Info: 250ml #12711

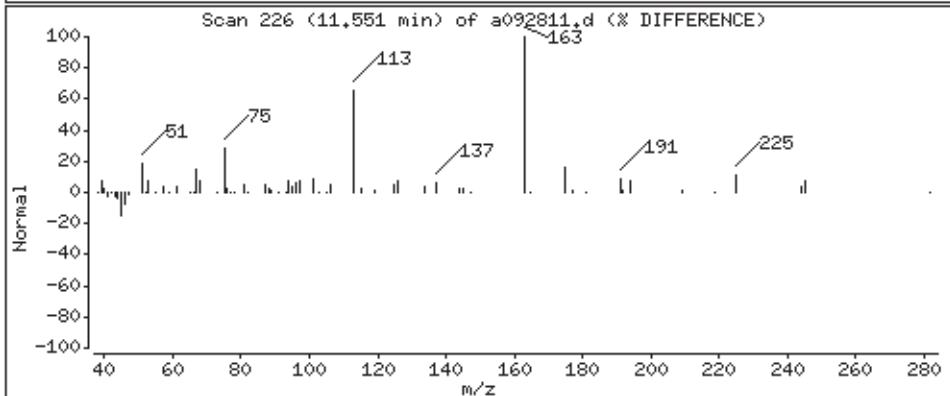
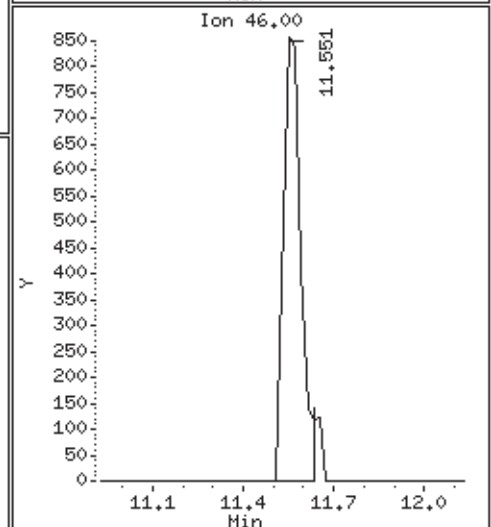
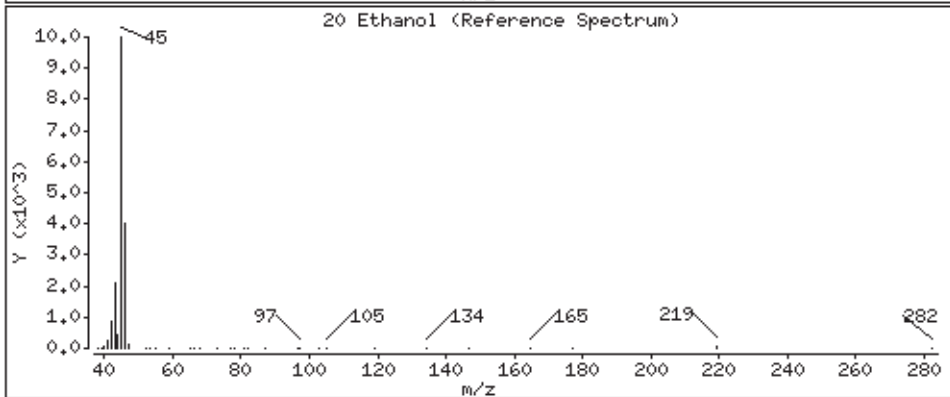
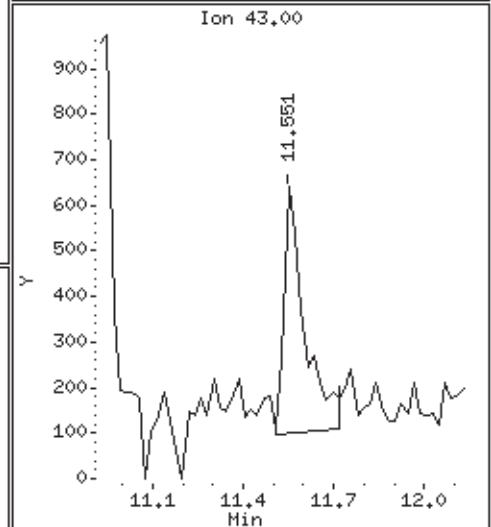
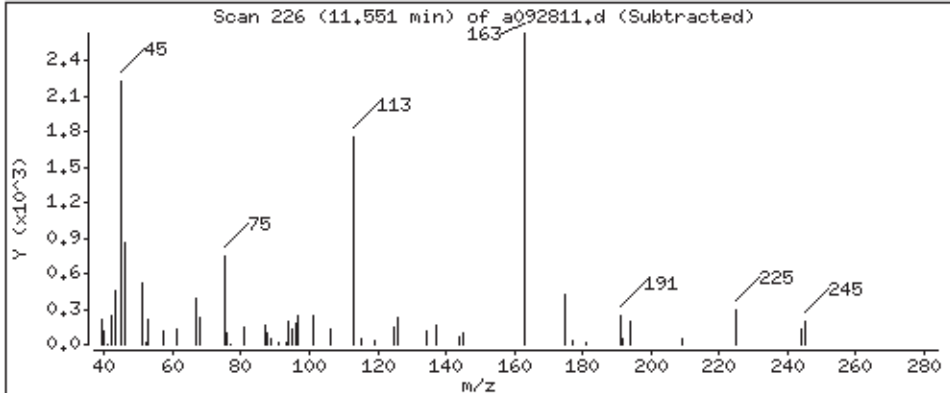
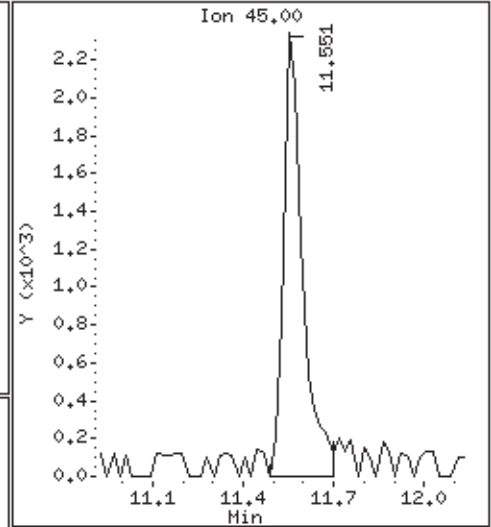
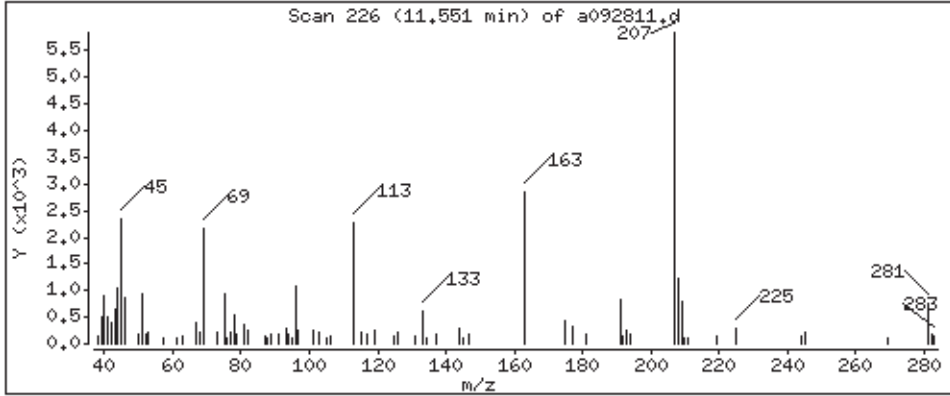
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 1,078 PPBV



Date : 29-SEP-2010 10:24

Client ID:

Instrument: msda.i

Sample Info: 250ml #12711

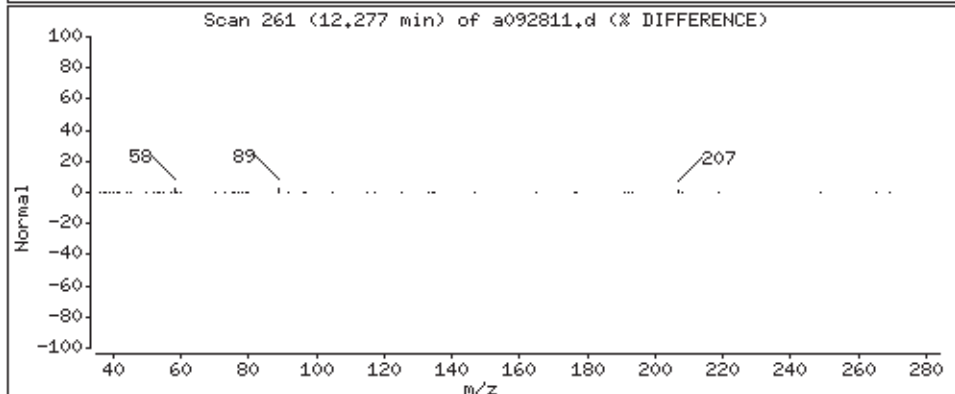
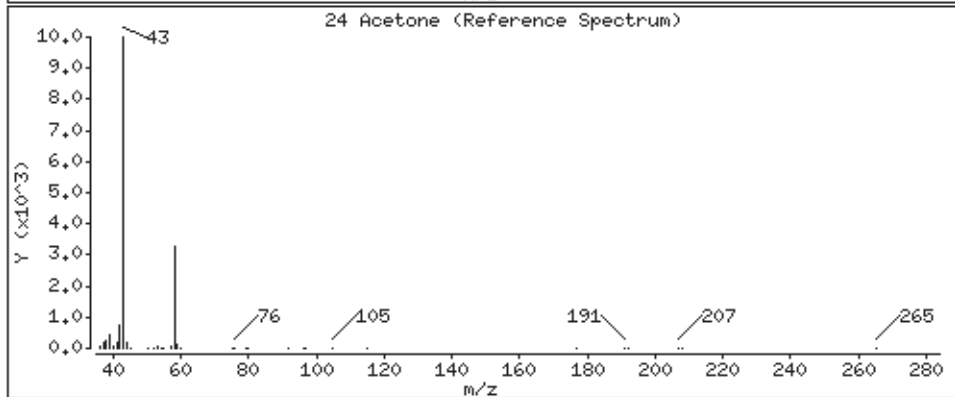
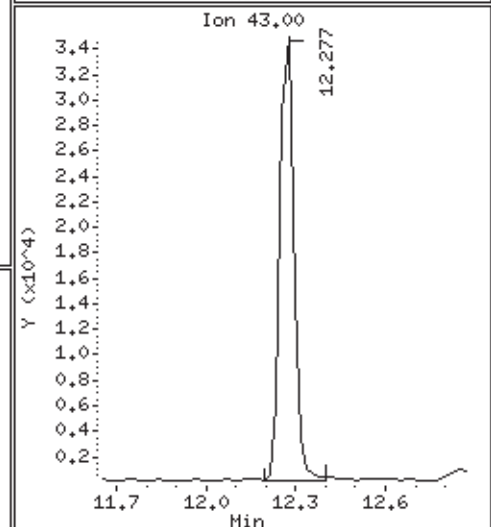
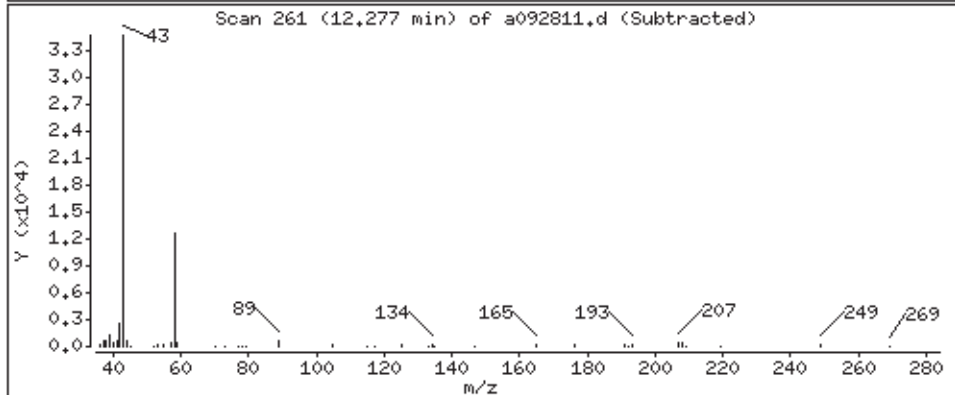
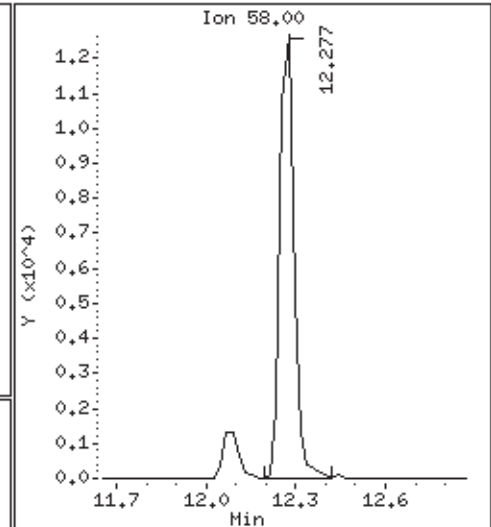
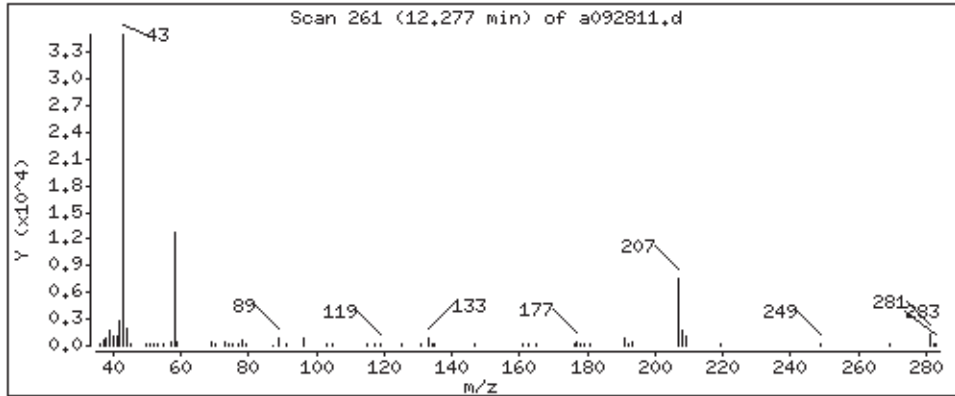
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 3.273 PPBV



Date : 29-SEP-2010 10:24

Client ID:

Instrument: msda.i

Sample Info: 250ml #12711

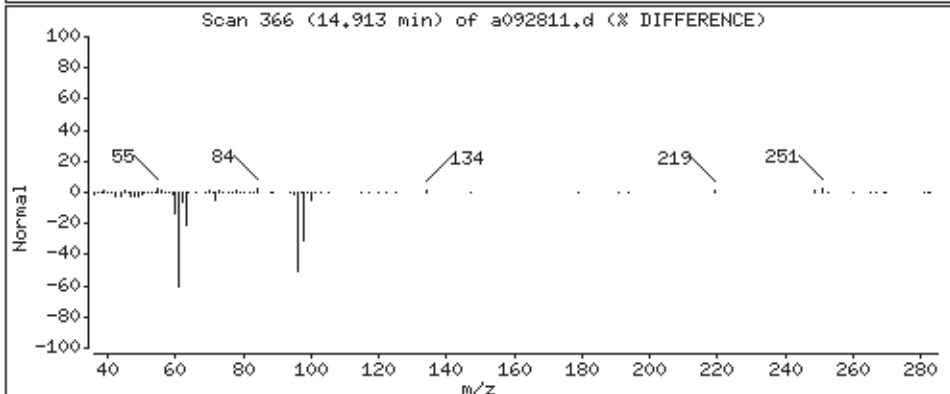
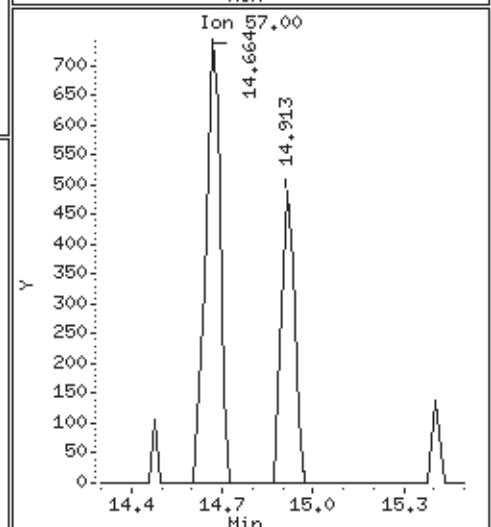
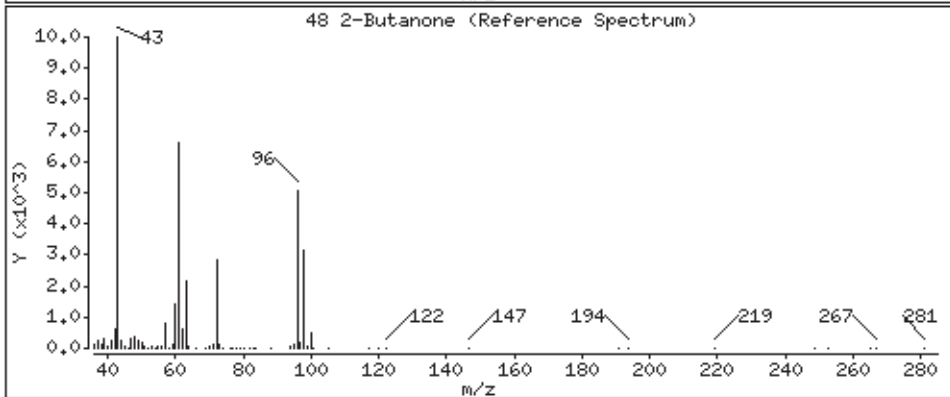
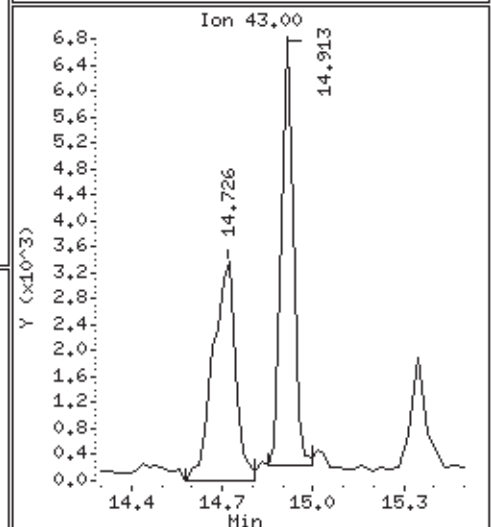
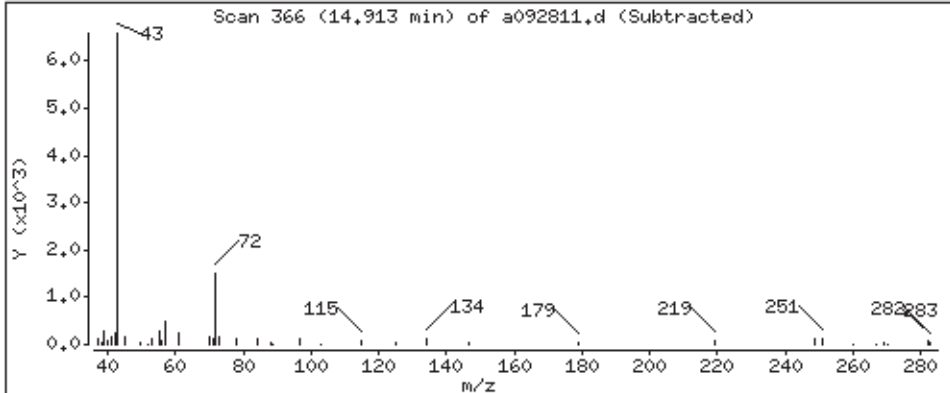
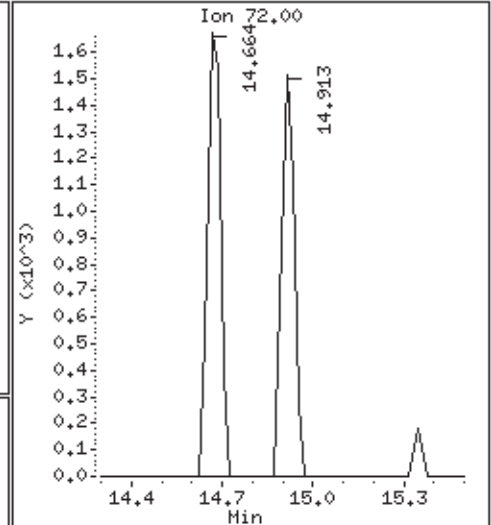
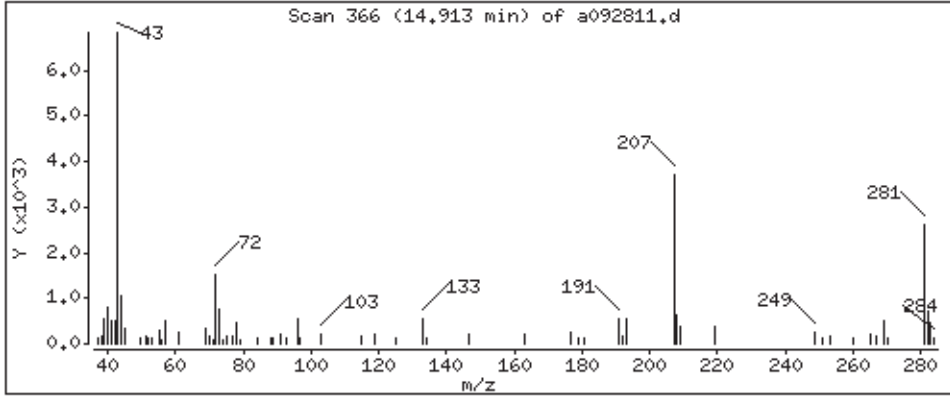
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 0.2575 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AOS-3

Lab ID#: 1009208-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.37	0.044	0.94
Toluene	0.034	0.098	0.13	0.37

Client Sample ID: AOS-3

Lab ID#: 1009208-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092811sim	Date of Collection: 9/7/10 4:01:00 PM
Dil. Factor:	1.71	Date of Analysis: 9/29/10 10:24 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	0.37	0.044	0.94
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Benzene	0.086	Not Detected	0.27	Not Detected
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.098	0.13	0.37
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
Ethyl Benzene	0.034	Not Detected	0.15	Not Detected
m,p-Xylene	0.068	Not Detected	0.30	Not Detected
o-Xylene	0.034	Not Detected	0.15	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092811sim.d
Lab Smp Id: 1009208-08B
Inj Date : 29-SEP-2010 10:24
Operator : cr Inst ID: msda.i
Smp Info : 250ml #12711
Misc Info : 6.5"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.267	15.269	(1.000)	130	365232	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	282694				0.00- 30.00	77.40
15.267	15.269	(1.000)	49	413091				0.00- 30.00	113.10

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.082	16.084	(1.053)	65	477767	8.83783	8.838		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	259739				0.00- 30.00	54.37

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.659	16.661	(1.000)	114	1549374	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	248597				0.00- 46.17	16.05

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.223	19.225	(1.154)	98	1376431	9.96671	9.967		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	155777				0.00- 41.52	11.32
19.223	19.225	(1.154)	100	924102				36.81- 96.81	67.14

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.468	21.469	(1.000)	117	1443136	10.0000			80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 56 Chlorobenzene-d5 (continued)									
21.468	21.469	(1.000)	82	769990			0.00- 30.00	53.36	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.920	22.922	(1.068)	174	748796	10.2948	10.295	80.00- 120.00	100.00	
22.920	22.922	(1.068)	95	976141			100.82- 160.82	130.36	
22.920	22.922	(1.068)	176	726607			66.99- 126.99	97.04	

5 Vinyl Chloride CAS #: 75-01-4									
7.947	7.897	(0.520)	62	12167	0.21548	0.3685	80.00- 120.00	100.00	
7.964	7.897	(0.522)	64	484			1.85- 61.85	3.98	

48 Toluene CAS #: 108-88-3									
19.335	19.337	(1.161)	91	12356	0.05709	0.09762	80.00- 120.00	100.00	
19.335	19.337	(1.161)	92	7323			30.39- 90.39	59.27	

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-08B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 6.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.838	88.38	70-130
\$ 47 Toluene-d8	10.000	9.967	99.67	70-130
\$ 66 Bromofluorobenzene	10.000	10.295	102.95	70-130

Data File: /chem/msda.i/28Sep2010.b/a092811sim.d

Date: 29-SEP-2010 10:24

Client ID:

Sample Info: 250ml #12711

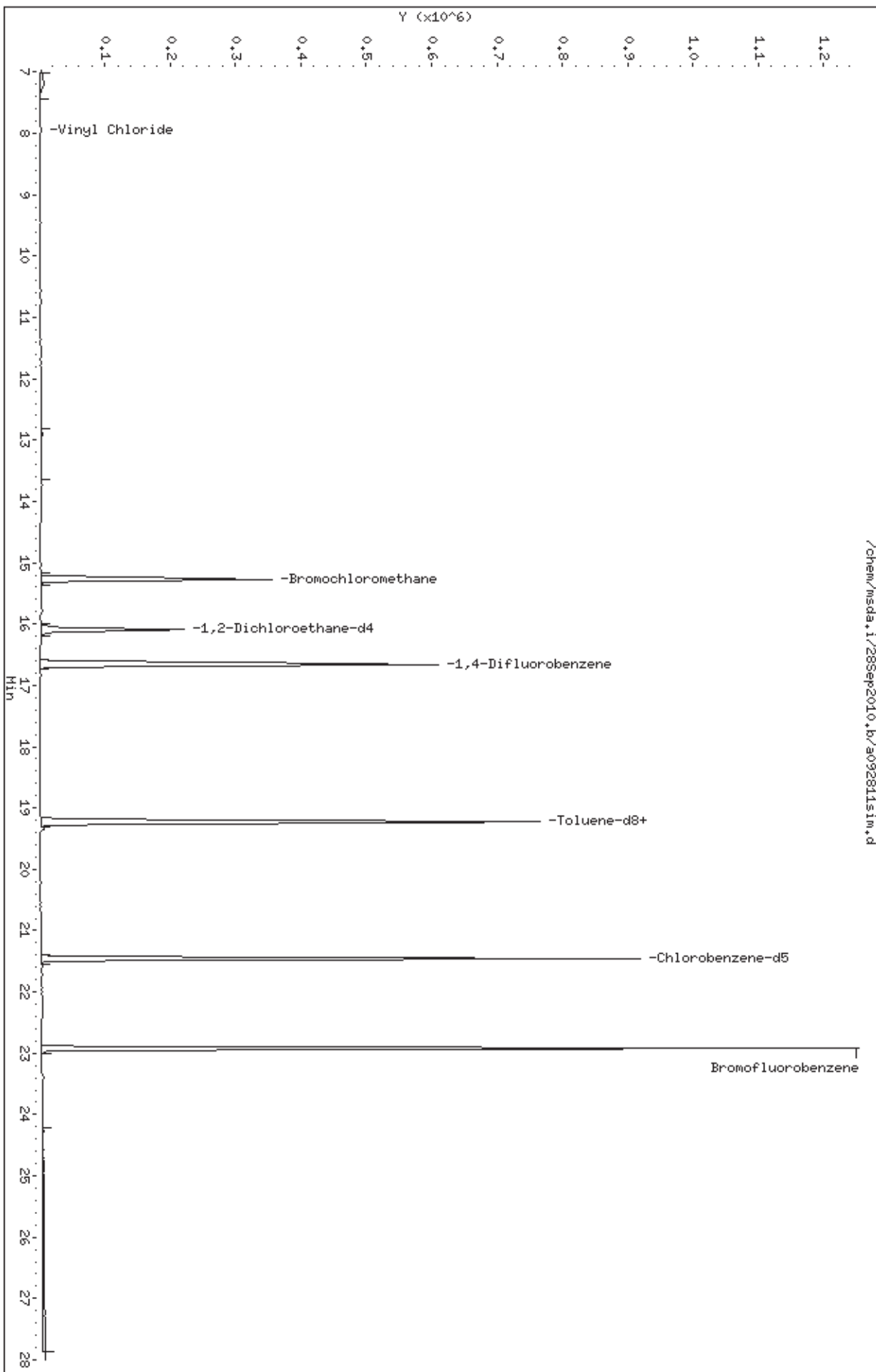
Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53

/chem/msda.i/28Sep2010.b/a092811sim.d



Date : 29-SEP-2010 10:24

Client ID:

Instrument: msda.i

Sample Info: 250ml #12711

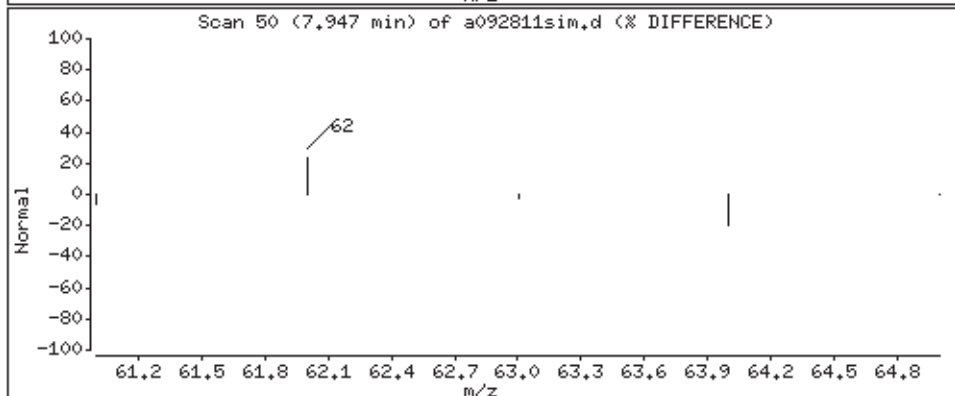
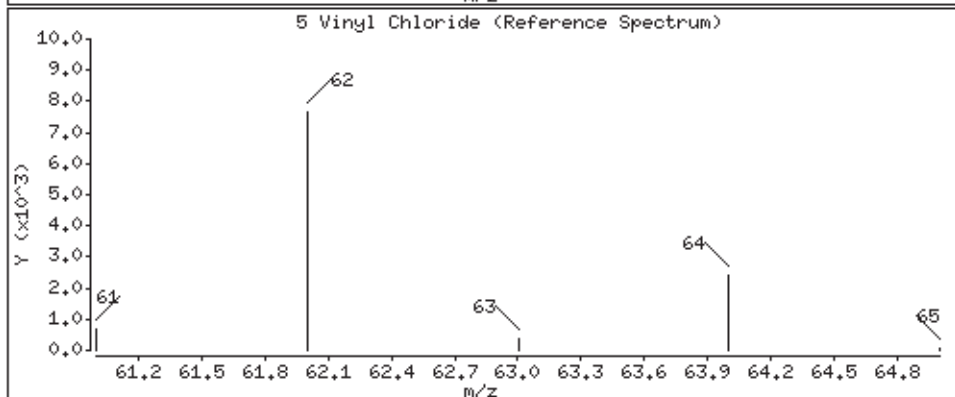
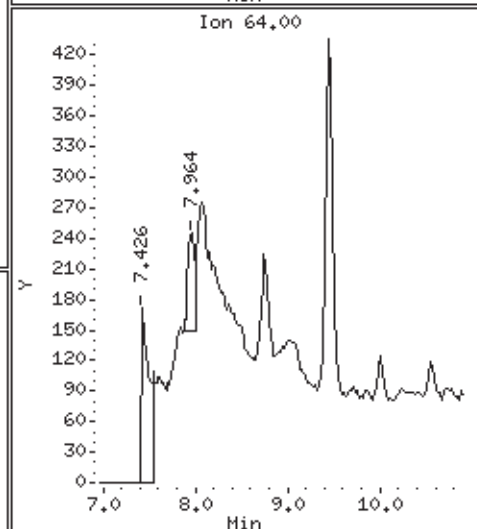
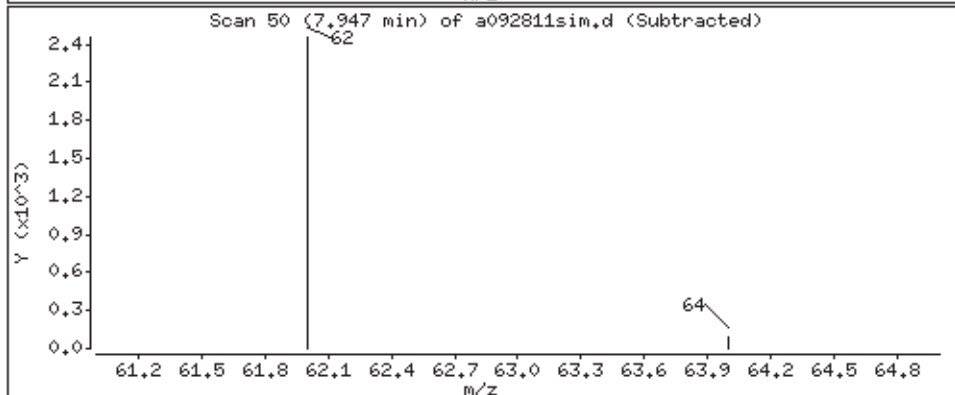
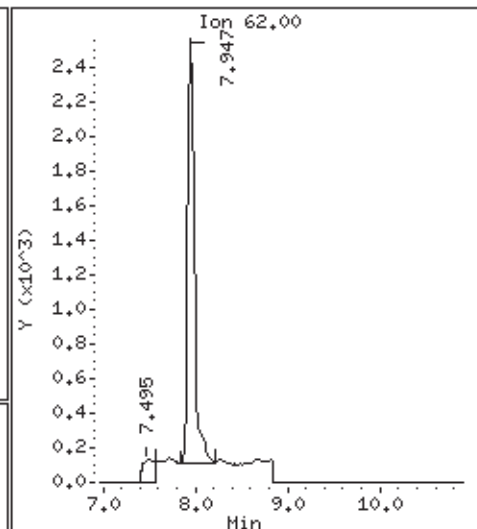
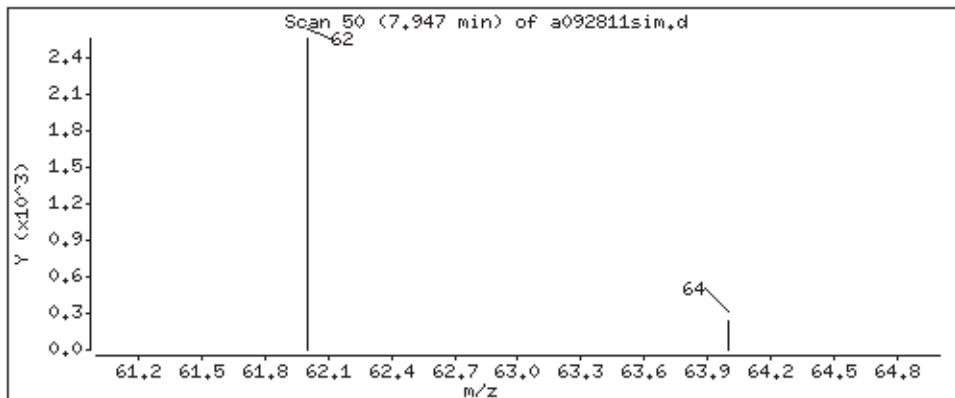
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.3685 PPBV



Date : 29-SEP-2010 10:24

Client ID:

Instrument: msda.i

Sample Info: 250ml #12711

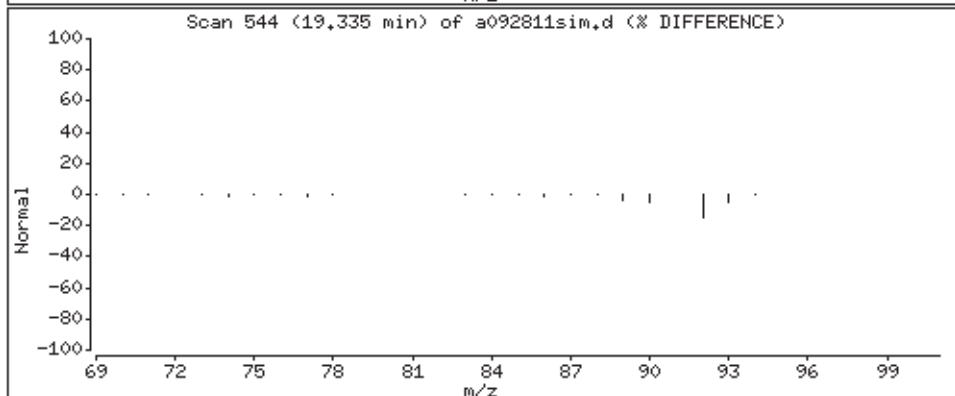
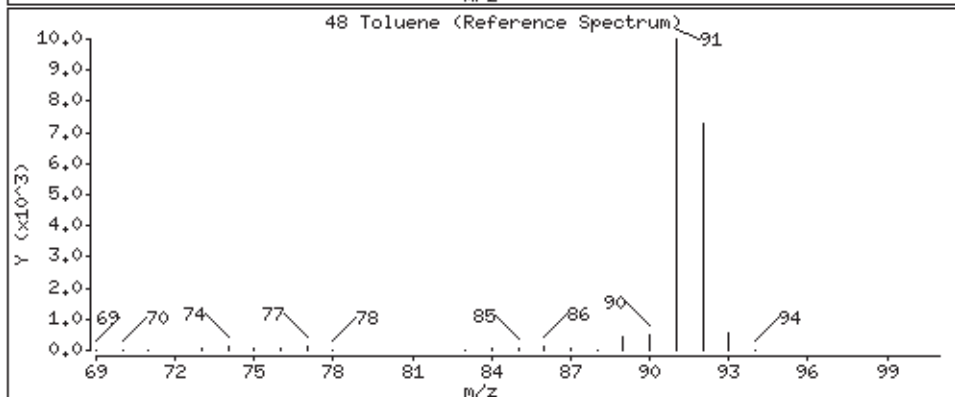
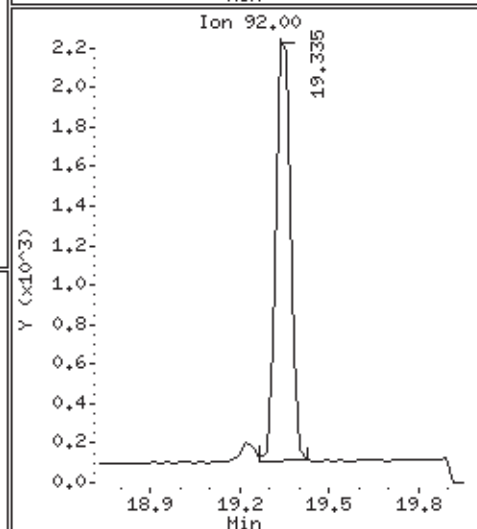
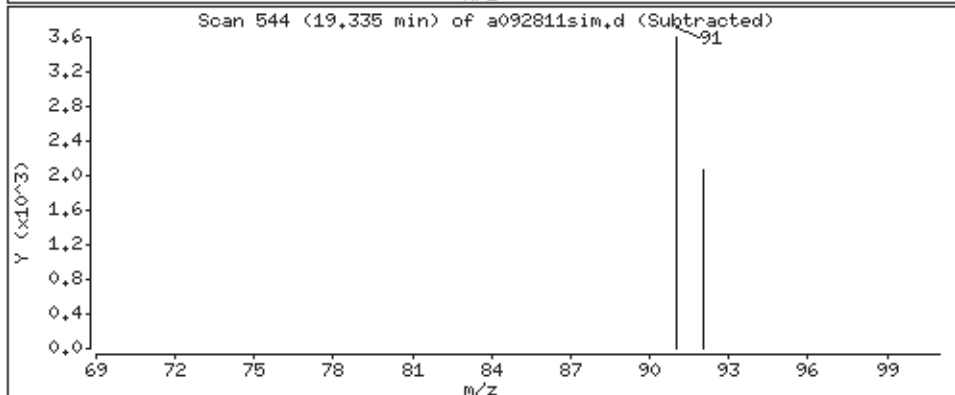
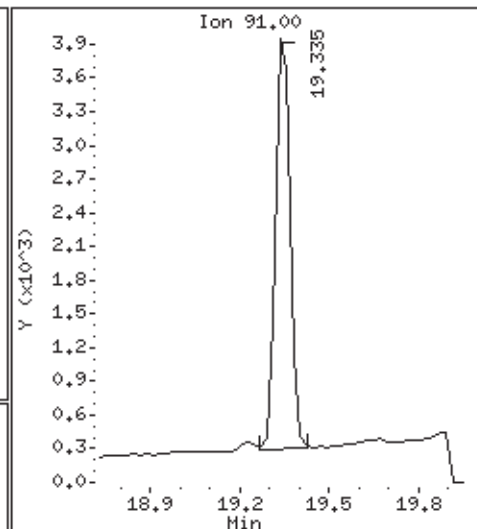
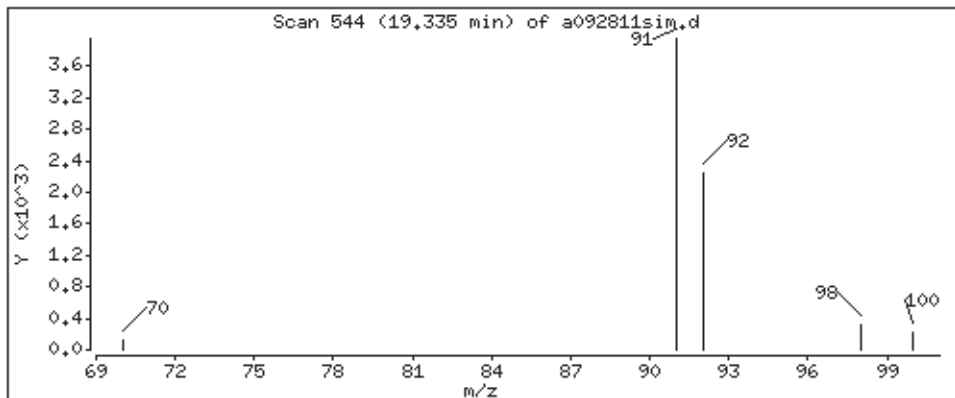
Operator: cr

Column phase: RTx-624

Column diameter: 0.53

48 Toluene

Concentration: 0.09762 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: EB-090810

Lab ID#: 1009208-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	0.16	0.49	0.64	1.9
Freon 11	0.16	0.19	0.92	1.1
Ethanol	0.82	0.97	1.5	1.8
Acetone	0.82	11	1.9	27
Methylene Chloride	0.33	0.50	1.1	1.7
Hexane	0.16	0.19	0.58	0.67
2-Butanone (Methyl Ethyl Ketone)	0.16	1.2	0.48	3.4
4-Ethyltoluene	0.16	0.29	0.81	1.4
1,2,4-Trimethylbenzene	0.16	0.35	0.81	1.7

Client Sample ID: EB-090810

Lab ID#: 1009208-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092812	Date of Collection: 9/8/10 3:17:00 PM
Dil. Factor:	1.64	Date of Analysis: 9/29/10 11:15 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.16	Not Detected	0.34	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.16	0.49	0.64	1.9
Chloroethane	0.16	Not Detected	0.43	Not Detected
Freon 11	0.16	0.19	0.92	1.1
Ethanol	0.82	0.97	1.5	1.8
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.82	11	1.9	27
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	0.50	1.1	1.7
Hexane	0.16	0.19	0.58	0.67
2-Butanone (Methyl Ethyl Ketone)	0.16	1.2	0.48	3.4
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	0.29	0.81	1.4
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	0.35	0.81	1.7
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected



Client Sample ID: EB-090810

Lab ID#: 1009208-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092812	Date of Collection:	9/8/10 3:17:00 PM
Dil. Factor:	1.64	Date of Analysis:	9/29/10 11:15 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092812.d
 Lab Smp Id: 1009208-09A
 Inj Date : 29-SEP-2010 11:15
 Operator : cr
 Smp Info : 250ml #34479
 Misc Info : 5.5"Hg - 5psi
 Comment :
 Method : /chem/msda.i/28Sep2010.b/a1010915a.m
 Meth Date : 29-Sep-2010 11:04 croush
 Cal Date : 20-SEP-2010 20:09
 Als bottle: 32
 Dil Factor: 1.64000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: eeyore
 Inst ID: msda.i
 Quant Type: ISTD
 Cal File: a092015.d
 Compound Sublist: EXPO14301.sub
 Sample Matrix: AIR

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.253	15.255	(1.000)	130	371723	10.0000			80.00- 120.00	100.00
15.253	15.255	(1.000)	128	286268				48.35- 108.35	77.01
15.253	15.255	(1.000)	49	391404				89.31- 149.31	105.29

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.645	16.647	(1.000)	114	1542269	10.0000			80.00- 120.00	100.00
16.645	16.647	(1.000)	88	242810				0.00- 46.24	15.74

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.454	21.456	(1.000)	117	1430169	10.0000			80.00- 120.00	100.00
21.454	21.456	(1.000)	82	784453				25.95- 85.95	54.85

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.096	16.098	(1.055)	65	451054	8.34818	8.348		80.00- 120.00	100.00
16.096	16.098	(1.055)	67	246242				0.00- 30.00	54.59

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.209	19.211	(1.154)	98	1463829	9.31899	9.319		80.00- 120.00	100.00
19.209	19.211	(1.154)	70	162884				0.00- 30.00	11.13

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.209	19.211	(1.154)	100	995710			37.86- 97.86	68.02	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.932	22.934	(1.069)	174	749746	10.2601	10.260	80.00- 120.00	100.00	
22.932	22.934	(1.069)	95	957476			98.89- 158.89	127.71	
22.932	22.934	(1.069)	176	720587			67.15- 127.15	96.11	

12 Bromomethane CAS #: 74-83-9									
9.603	9.542	(0.630)	94	8719	0.29654	0.4863	80.00- 120.00	100.00	
9.603	9.542	(0.630)	96	3722			62.96- 122.96	42.69	

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.743	10.724	(0.704)	101	16257	0.11706	0.1920	80.00- 120.00	100.00	
10.722	10.724	(0.703)	103	9991			35.14- 95.14	61.46	

20 Ethanol CAS #: 64-17-5									
11.551	11.532	(0.757)	45	9855	0.59173	0.9704	80.00- 120.00	100.00	
11.551	11.532	(0.757)	43	1478			0.00- 30.00	15.01	
11.551	11.532	(0.757)	46	2789			0.00- 30.00	28.31	

24 Acetone CAS #: 67-64-1									
12.256	12.258	(0.803)	58	154156	6.97894	11.445	80.00- 120.00	100.00	
12.256	12.258	(0.803)	43	423453			0.00- 30.00	274.69	

33 Methylene Chloride CAS #: 75-09-2									
13.035	13.037	(0.855)	84	14989	0.30622	0.5022	80.00- 120.00	100.00	
13.035	13.037	(0.855)	49	16211			0.00- 30.00	108.15	
13.035	13.037	(0.855)	51	5886			0.00- 30.00	39.27	

40 Hexane CAS #: 110-54-3									
13.722	13.723	(0.900)	57	10504	0.11638	0.1909	80.00- 120.00	100.00	
13.749	13.723	(0.901)	43	11624			0.00- 30.00	110.66	
13.722	13.723	(0.900)	86	2467			0.00- 30.00	23.49	

48 2-Butanone CAS #: 78-93-3									
14.913	14.915	(0.978)	72	21698	0.71200	1.168	80.00- 120.00	100.00	
14.913	14.915	(0.978)	43	81137			0.00- 30.00	373.94	
14.913	14.915	(0.978)	57	6552			0.00- 30.00	30.20	

107 4-Ethyltoluene CAS #: 622-96-8									
23.241	23.269	(1.083)	105	30965	0.17707	0.2904	80.00- 120.00	100.00	
23.241	23.269	(1.083)	120	9709			0.00- 30.00	31.35	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.757	23.759	(1.107)	105	20789	0.21188	0.3475	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
112 1,2,4-Trimethylbenzene (continued)									
23.757	23.759	(1.107)	120	10245			0.00-	30.00	49.28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092812.d
Lab Smp Id: 1009208-09A
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 5.5"Hg - 5psi

Calibration Date: 28-SEP-2010
Calibration Time: 19:58
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	371723	5.75
66 1,4-Difluorobenze	1417041	850225	1983857	1542269	8.84
88 Chlorobenzene-d5	1320371	792223	1848519	1430169	8.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-09A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 5.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.348	83.48	70-130
\$ 80 Toluene-d8	10.000	9.319	93.19	70-130
\$ 100 Bromofluorobenzene	10.000	10.260	102.60	70-130

Date : 29-SEP-2010 11:15

Client ID:

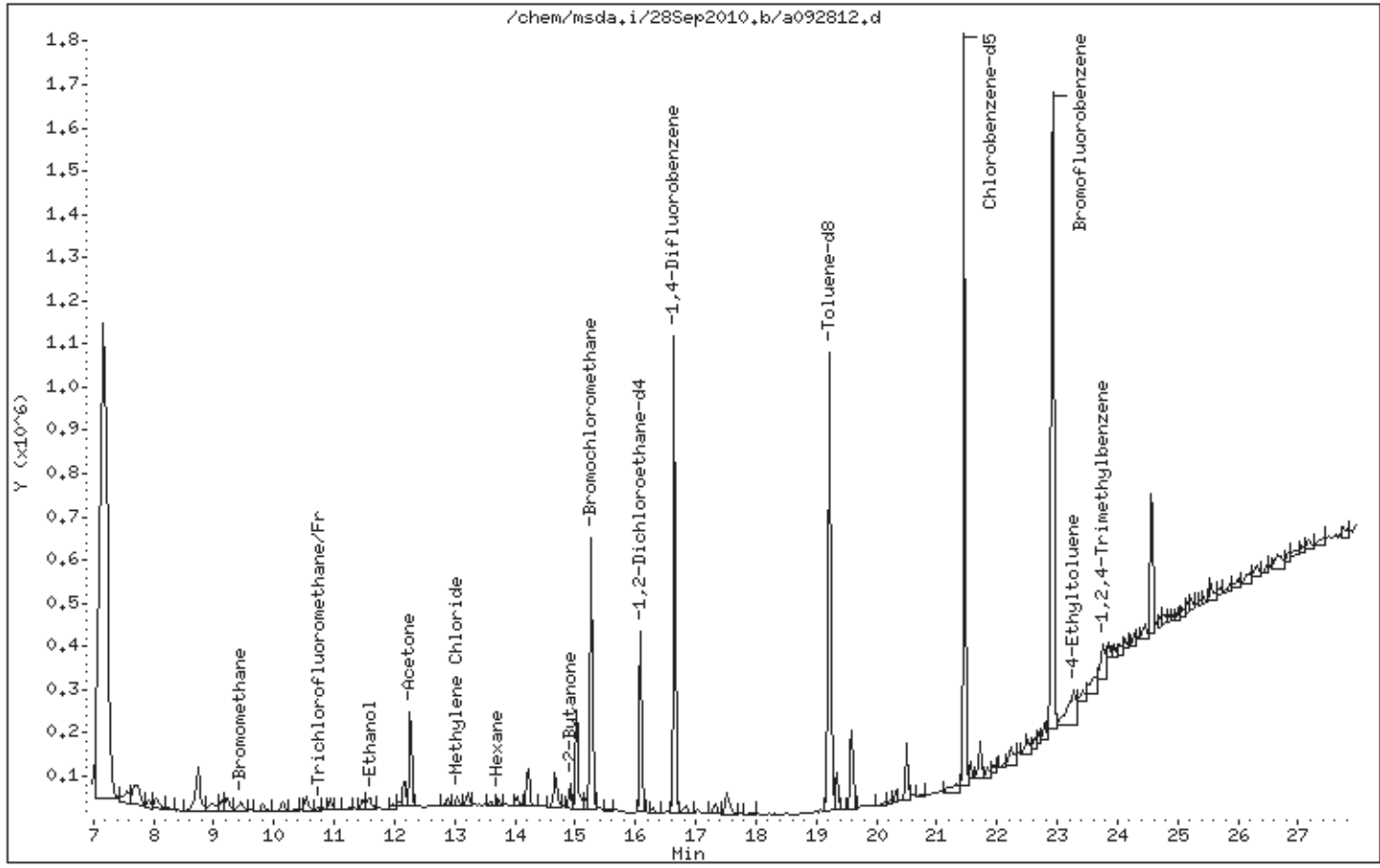
Instrument: msda.i

Sample Info: 250ml #34479

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

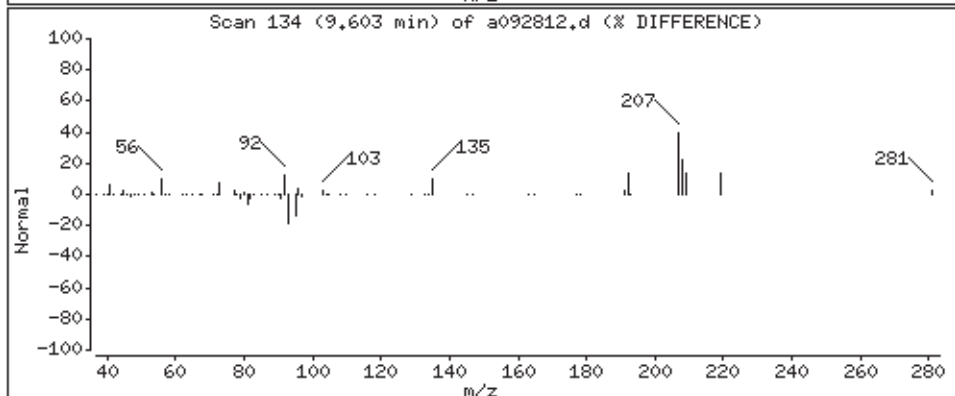
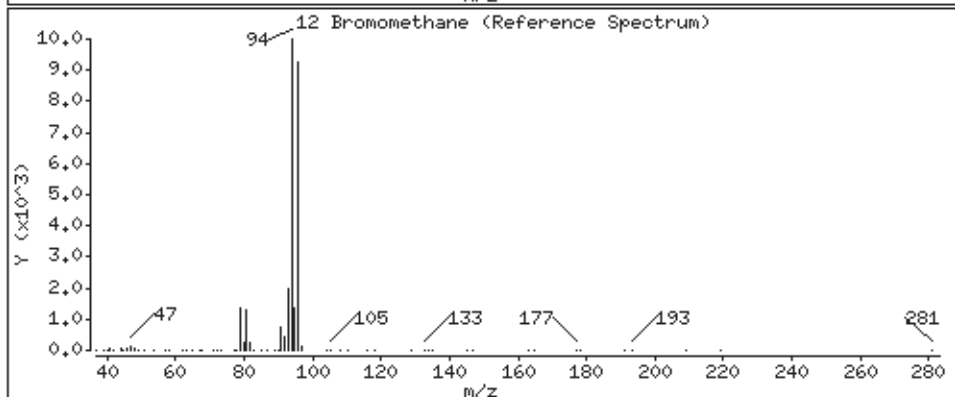
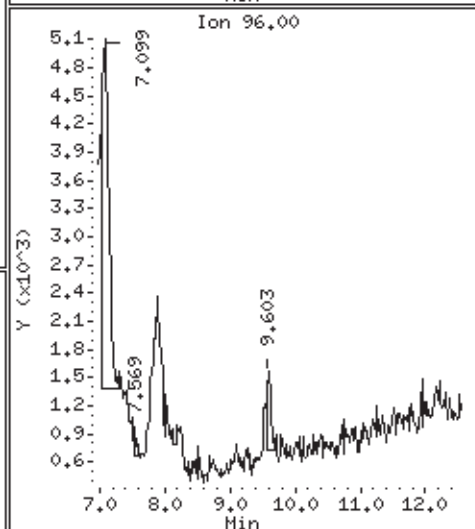
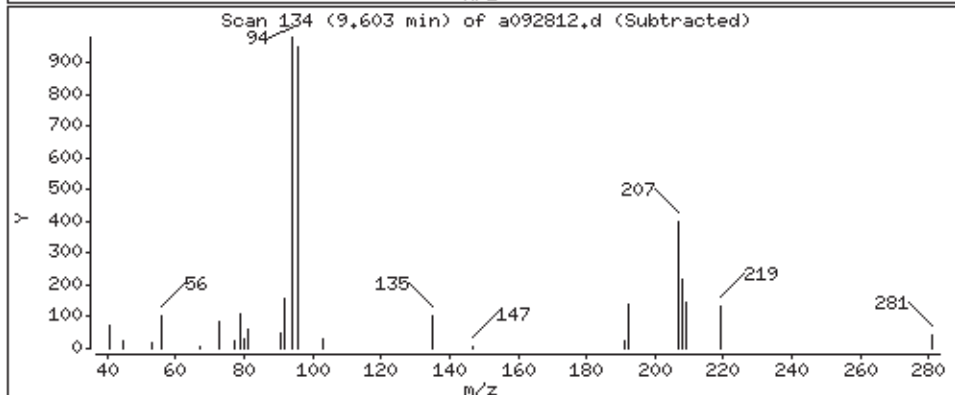
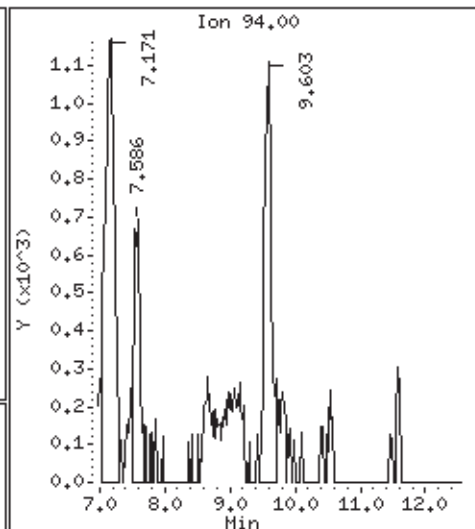
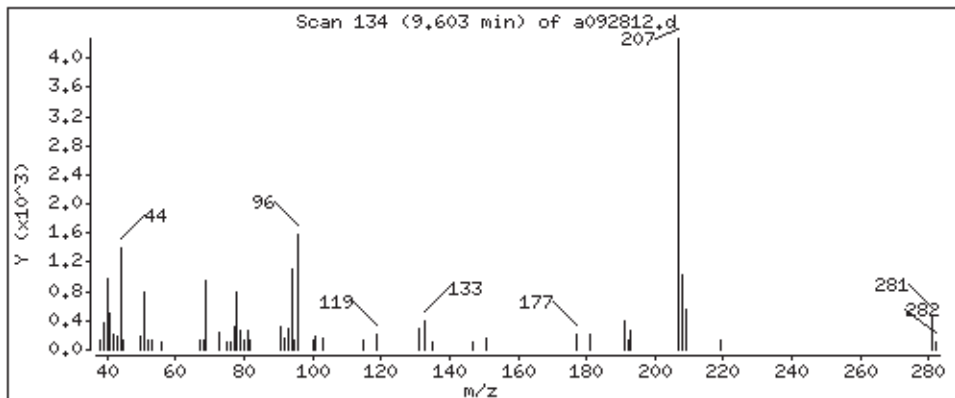
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

12 Bromomethane

Concentration: 0.4863 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

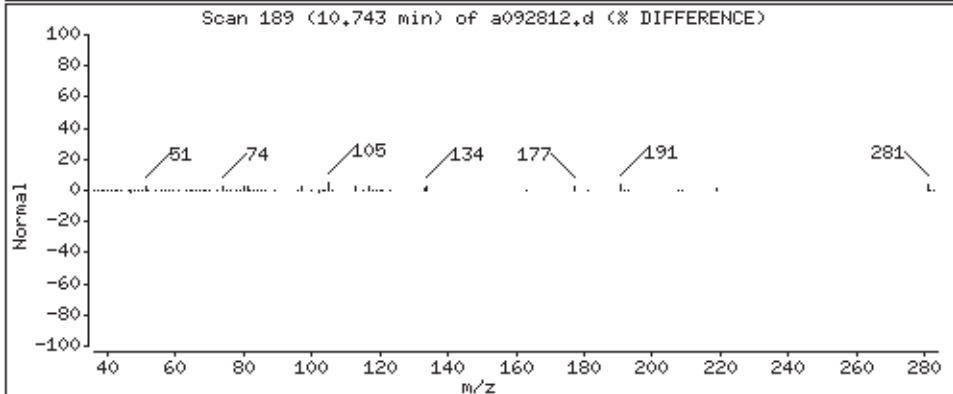
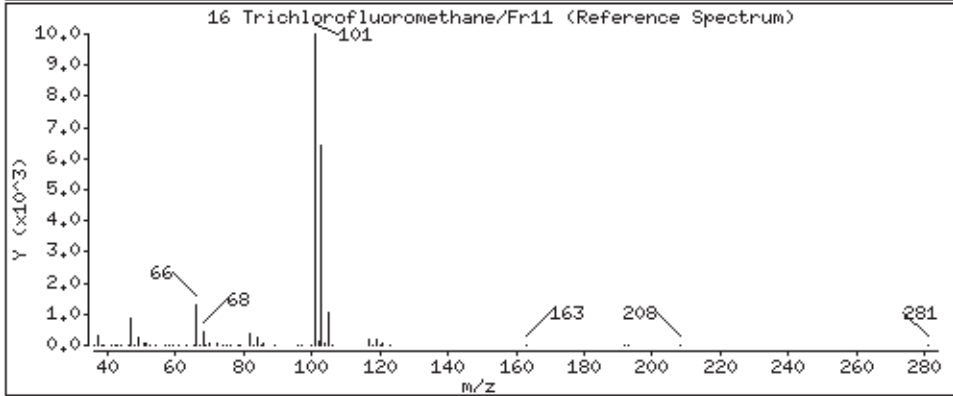
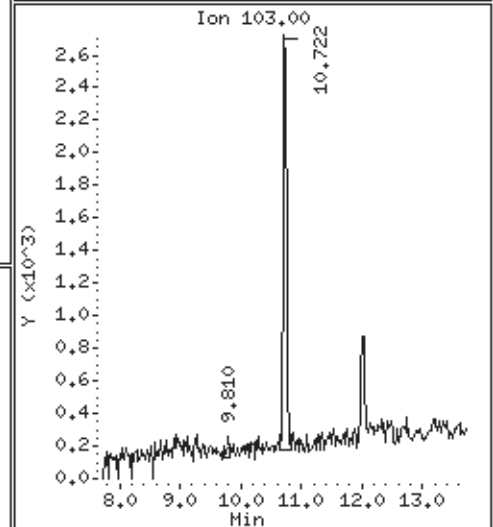
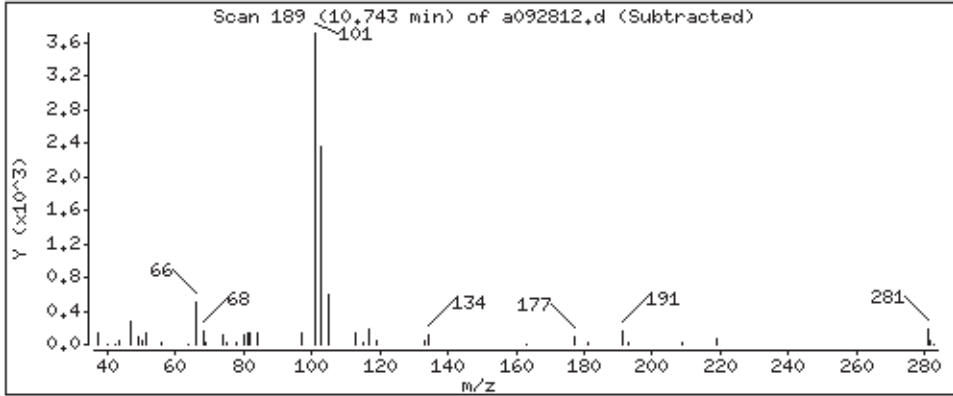
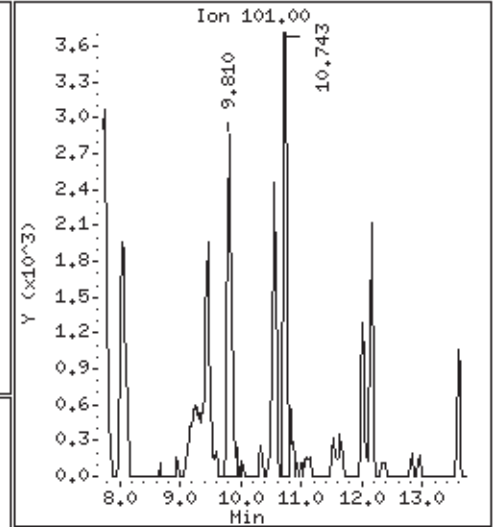
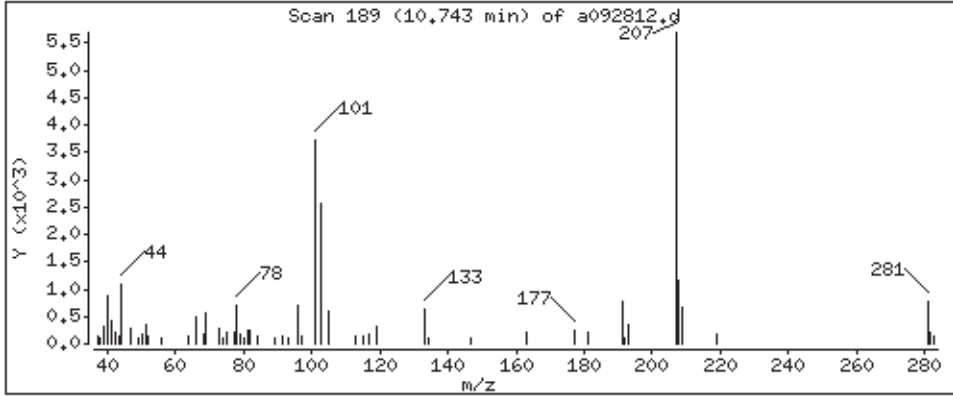
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

16 Trichlorofluoromethane/Fr11

Concentration: 0.1920 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

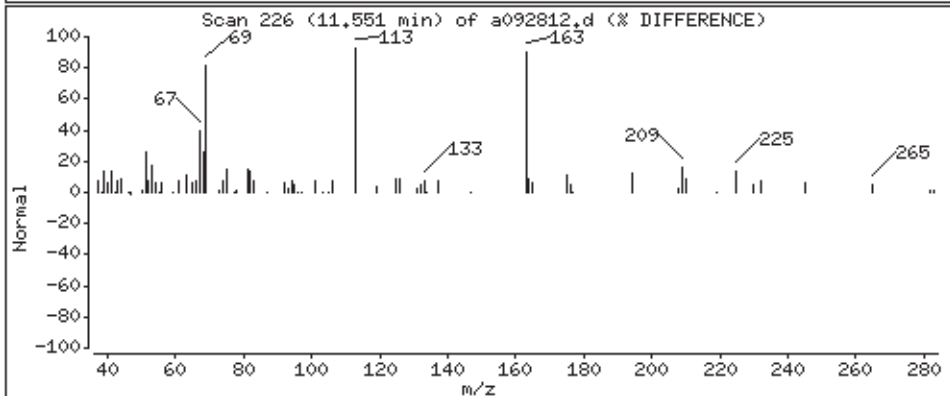
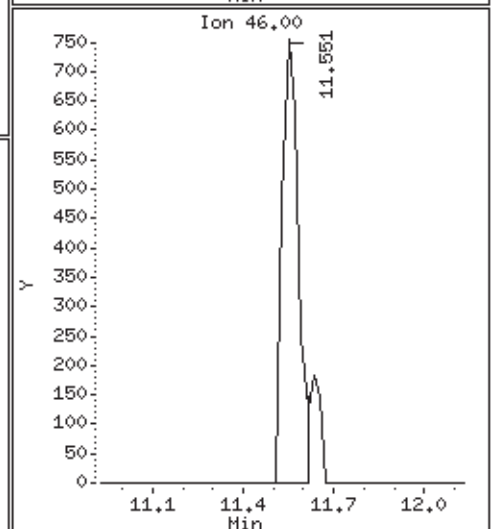
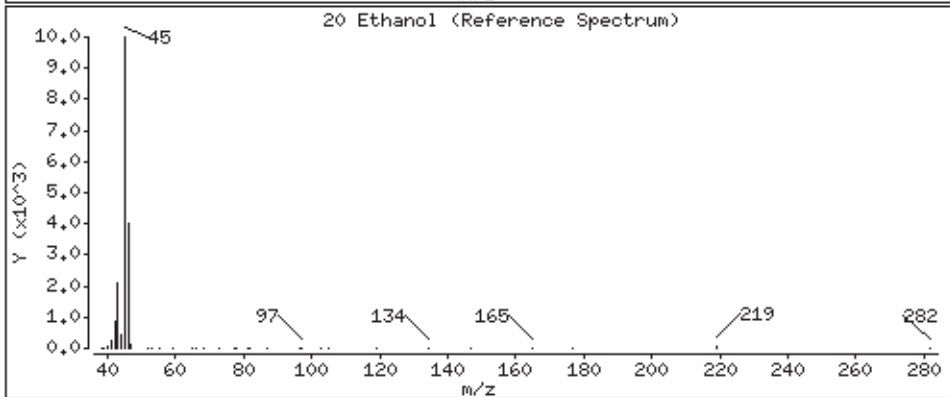
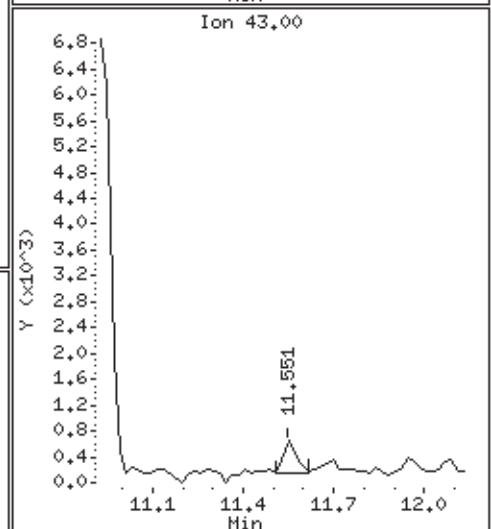
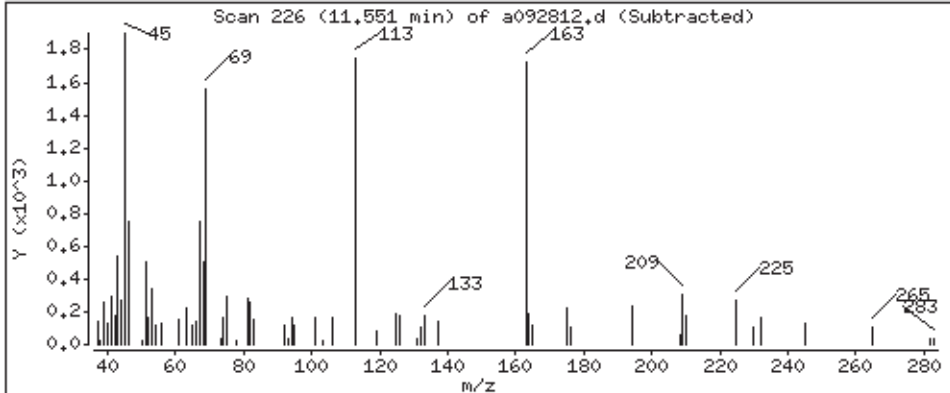
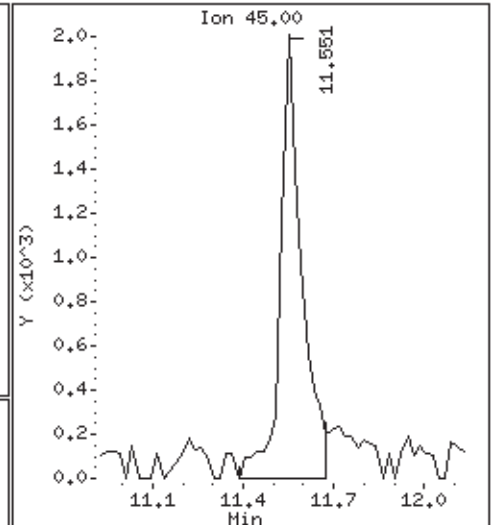
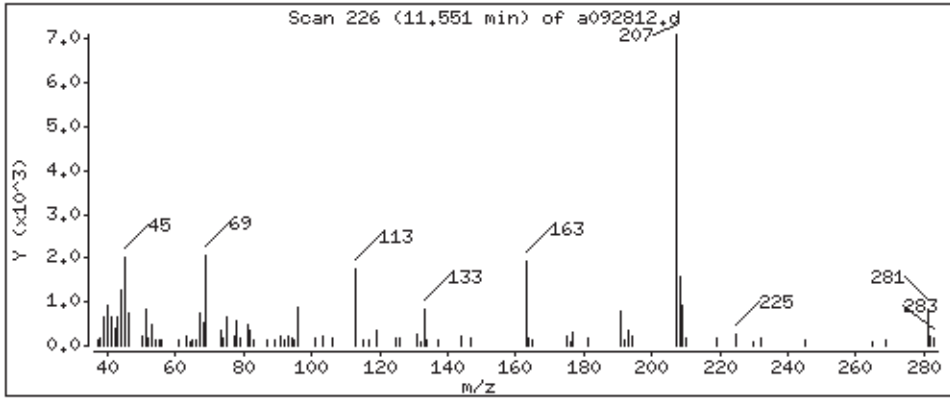
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

20 Ethanol

Concentration: 0.9704 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

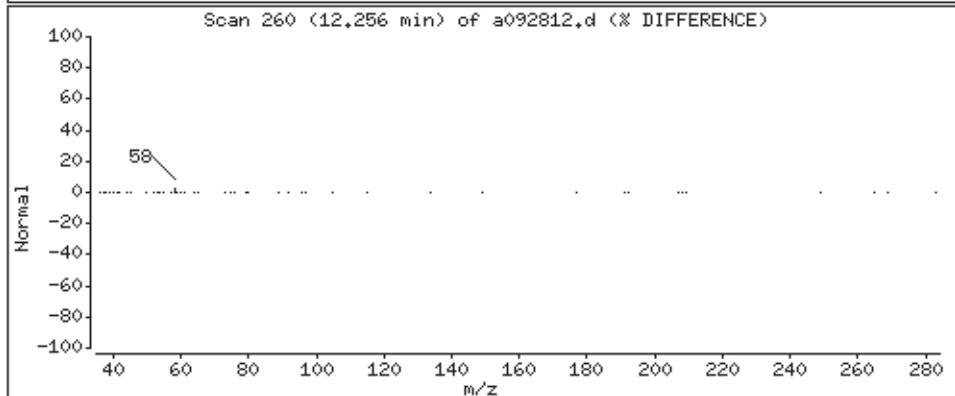
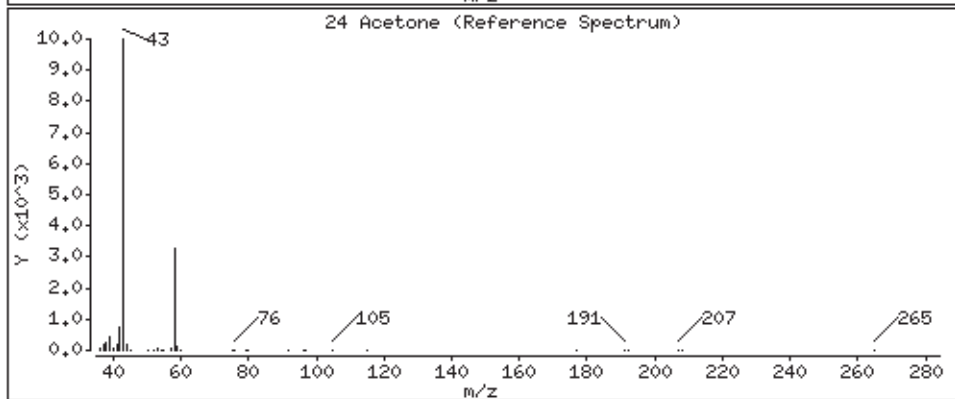
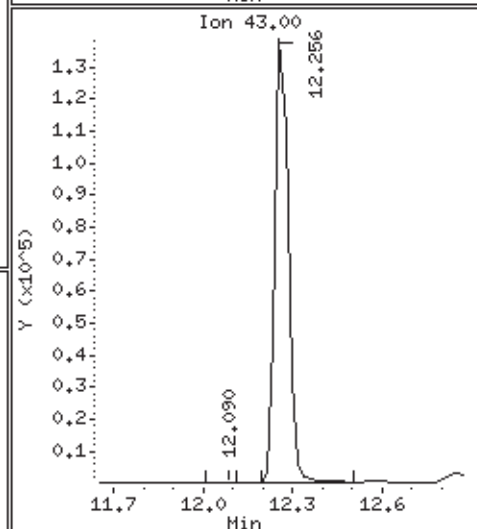
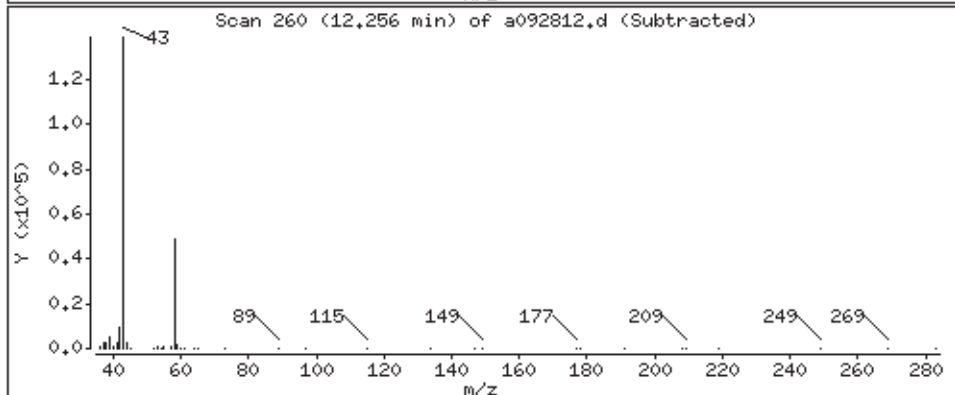
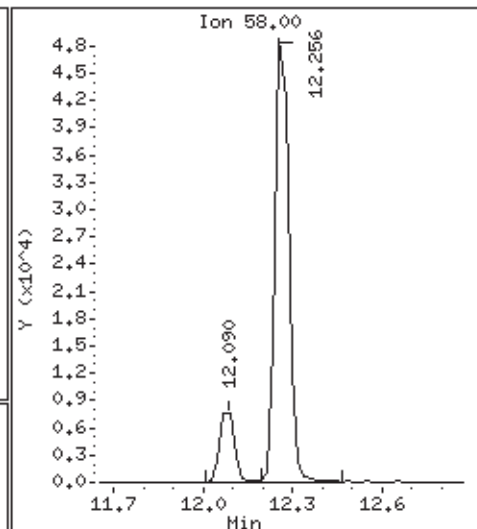
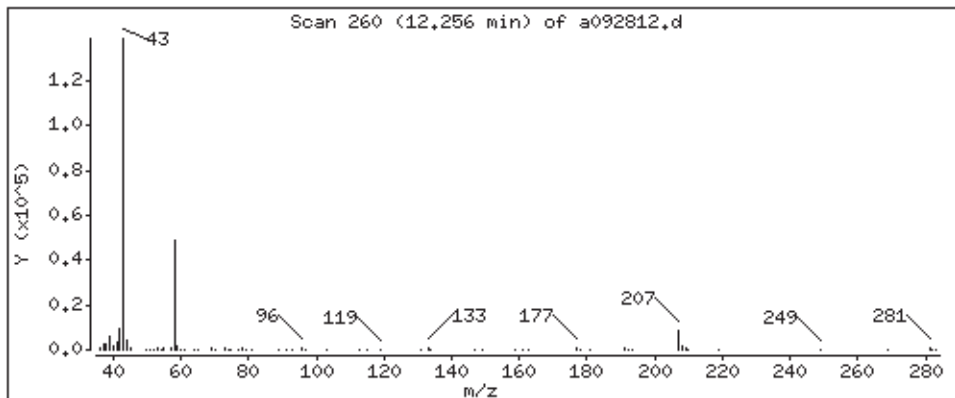
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

24 Acetone

Concentration: 11.445 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

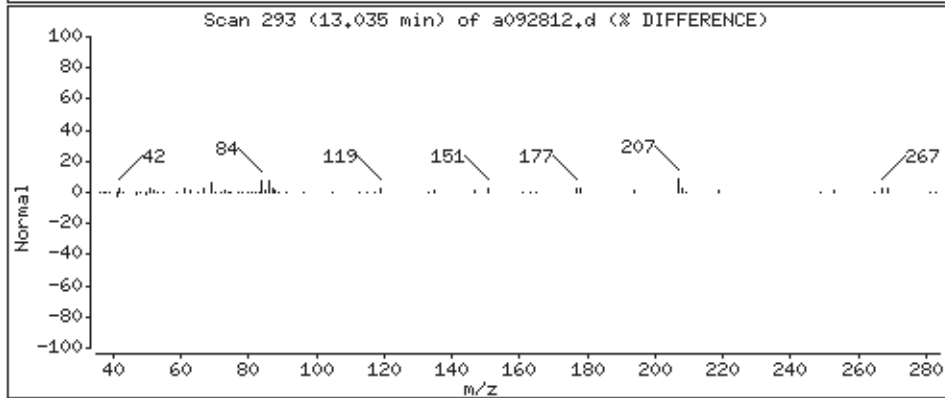
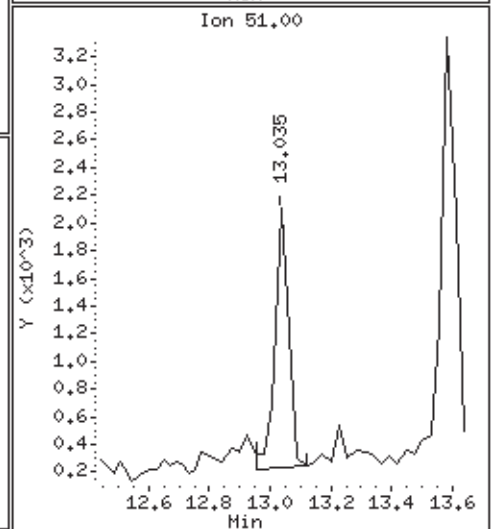
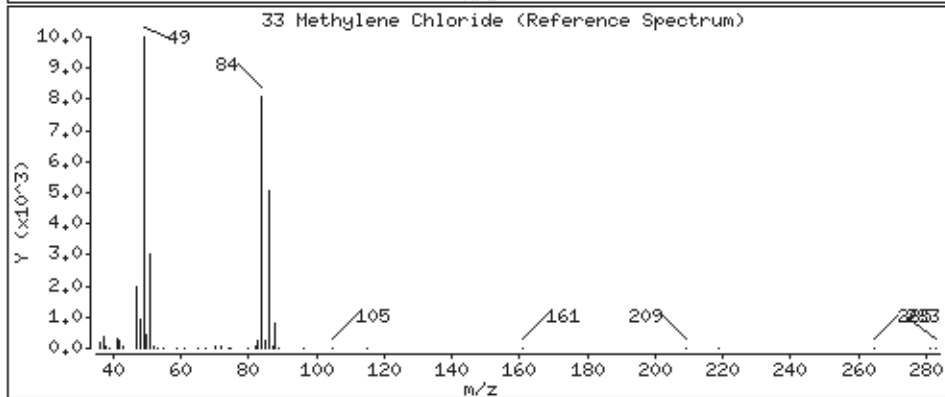
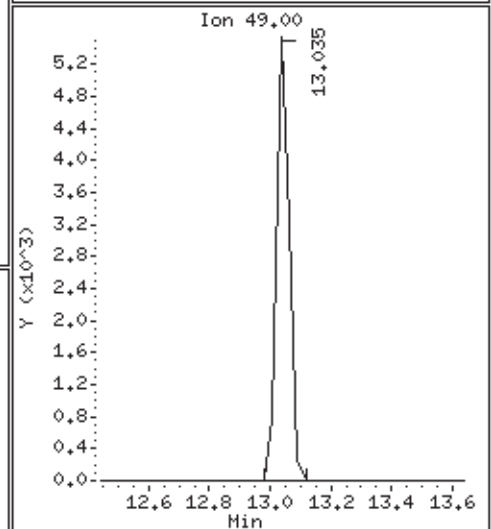
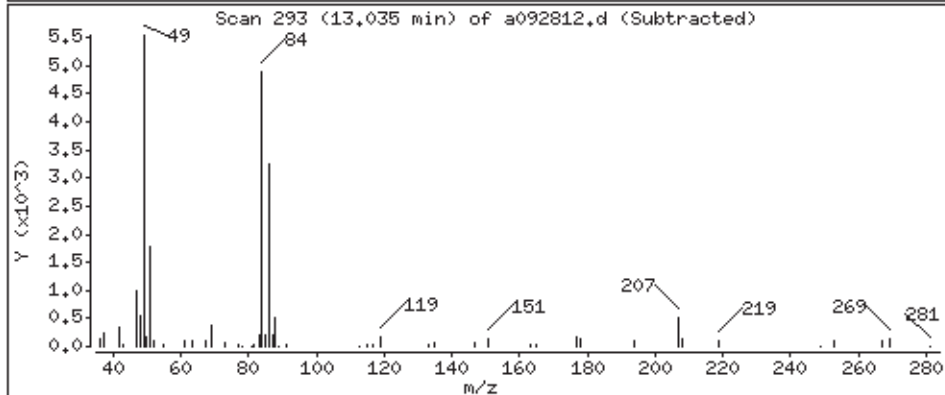
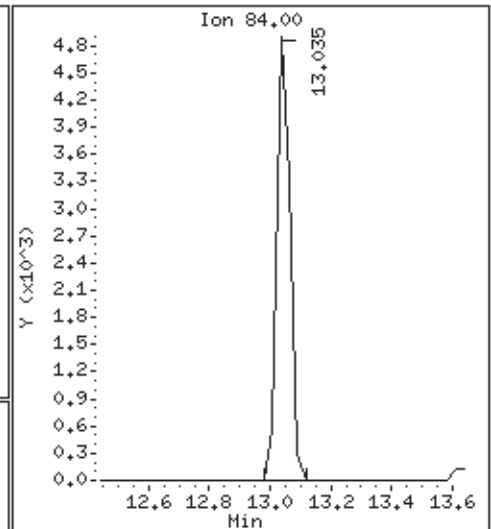
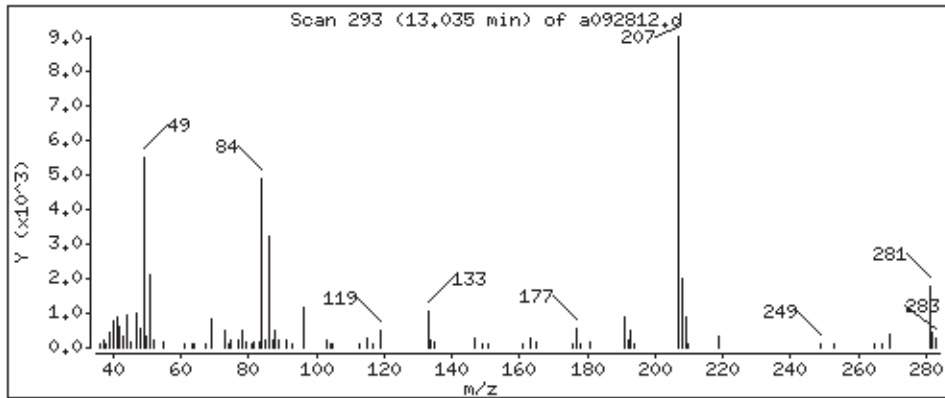
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

33 Methylene Chloride

Concentration: 0.5022 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

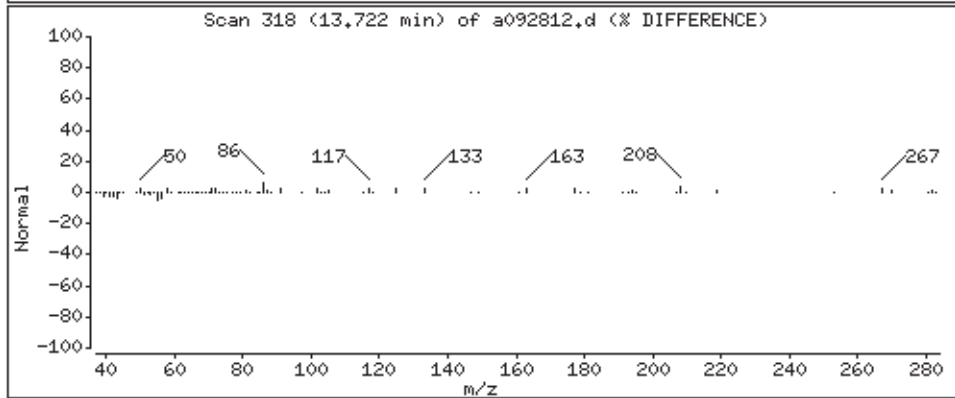
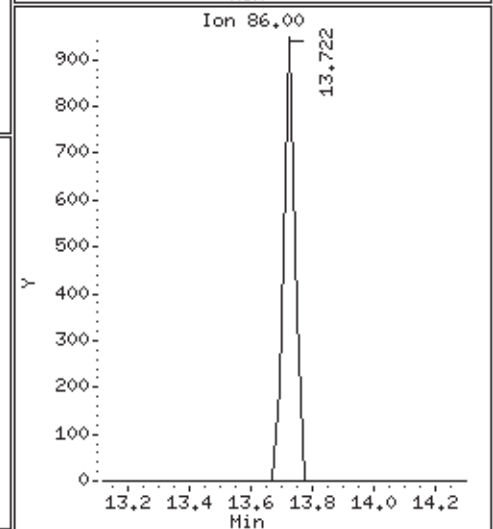
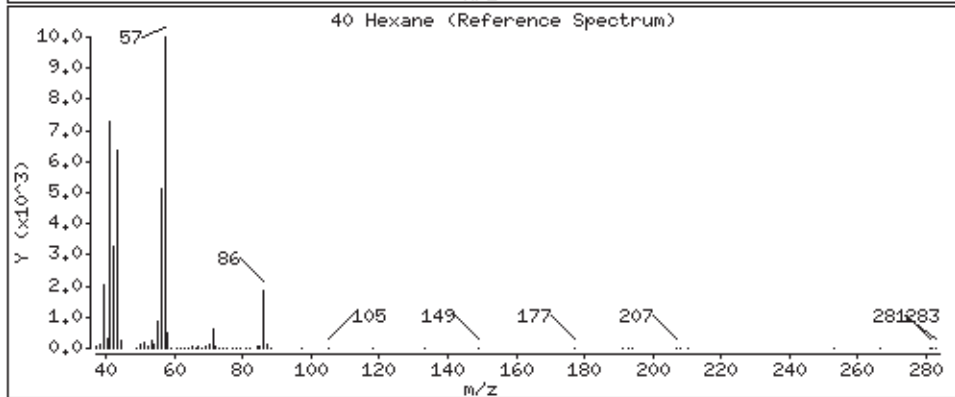
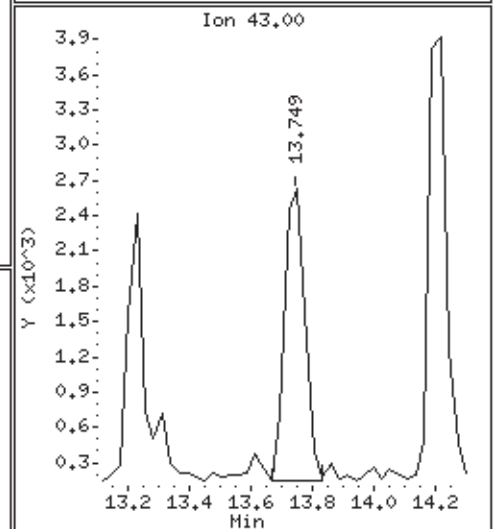
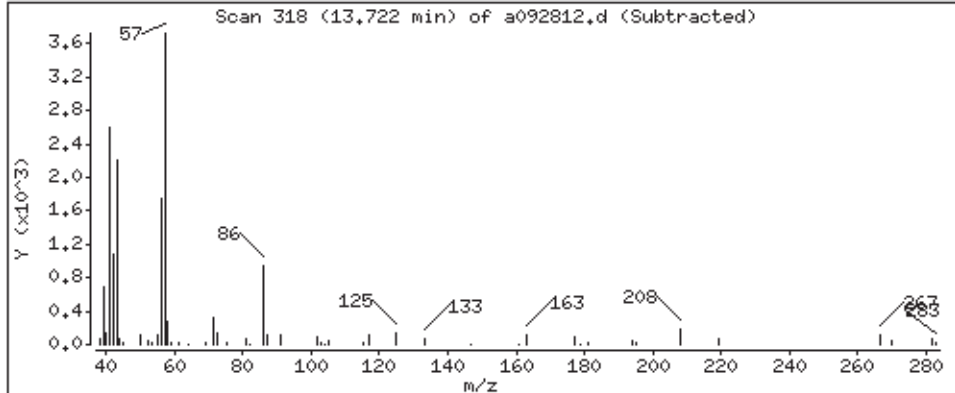
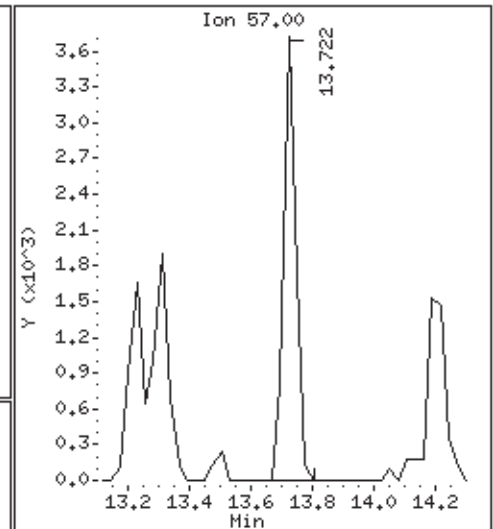
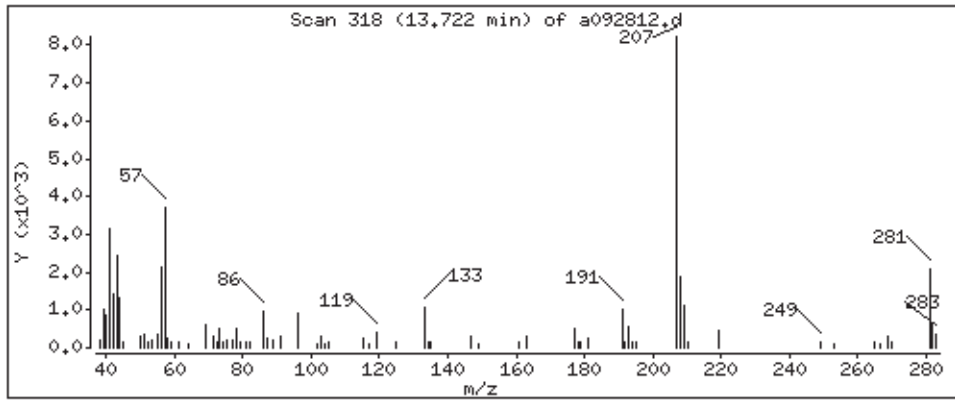
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

40 Hexane

Concentration: 0.1909 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

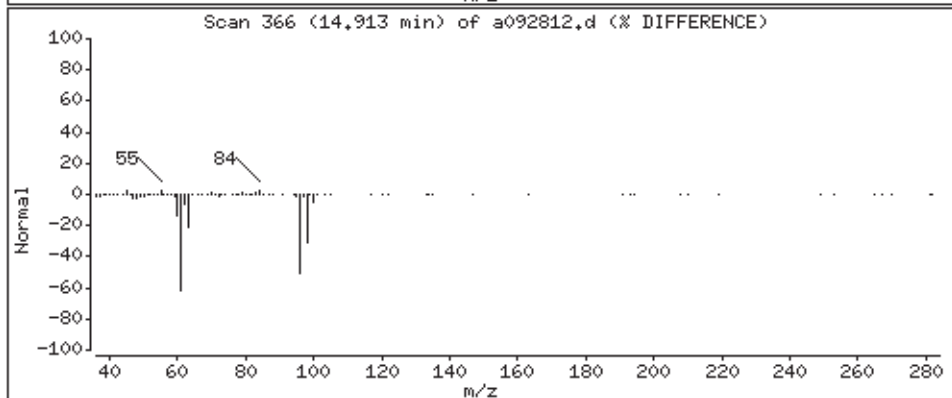
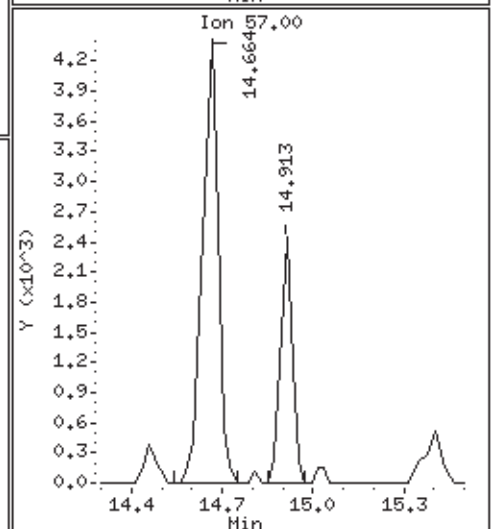
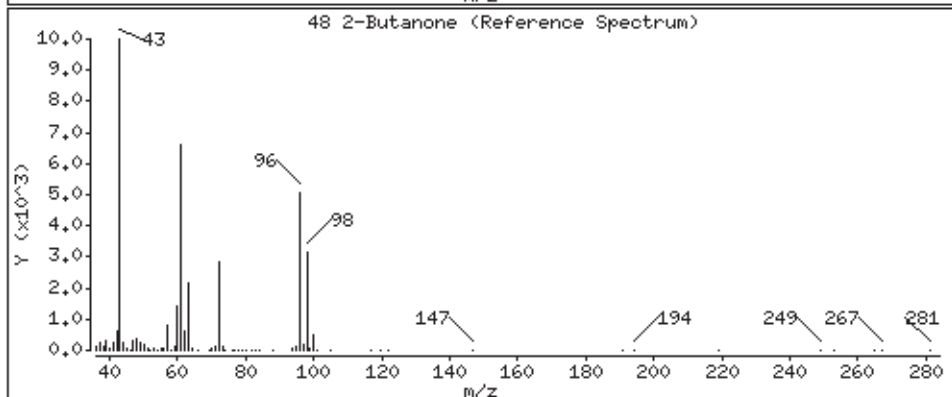
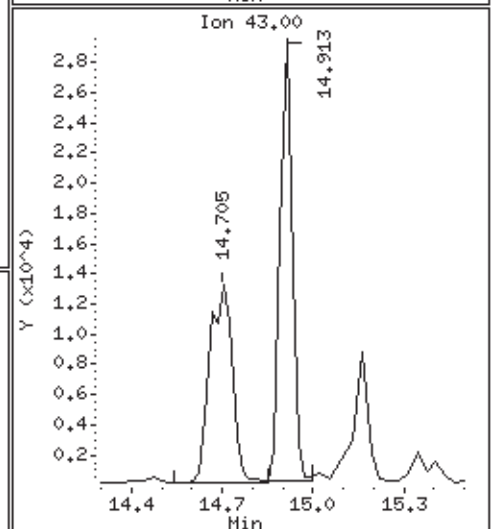
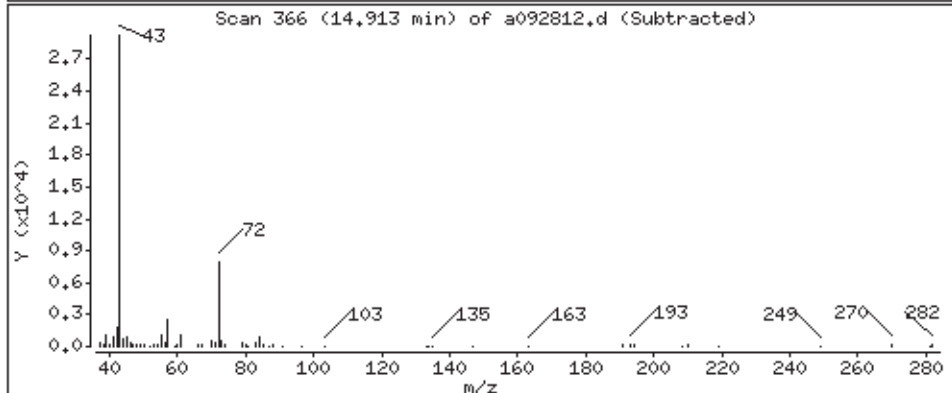
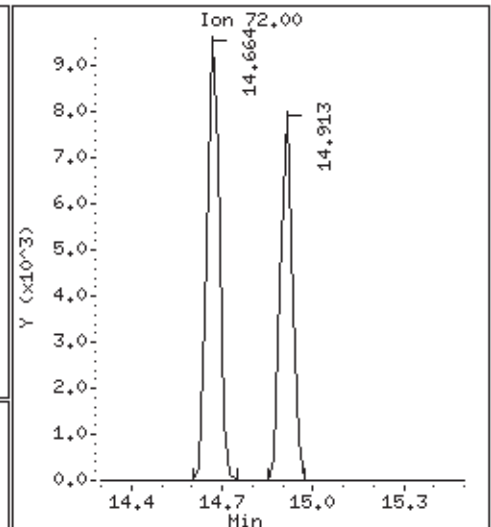
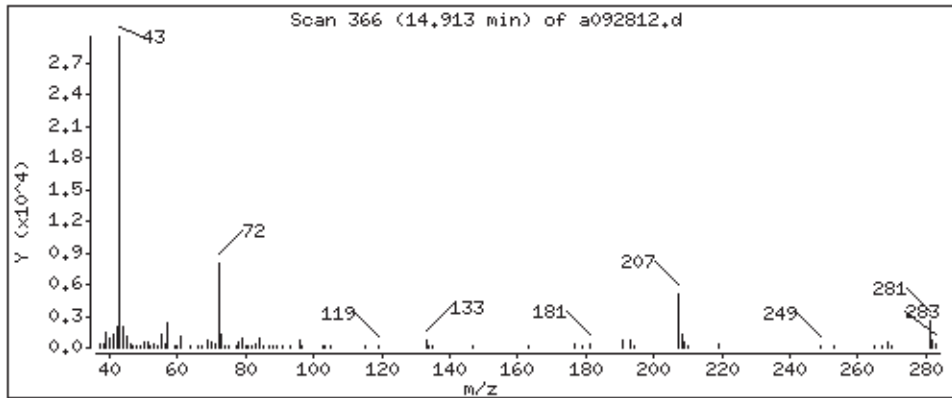
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

48 2-Butanone

Concentration: 1,168 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

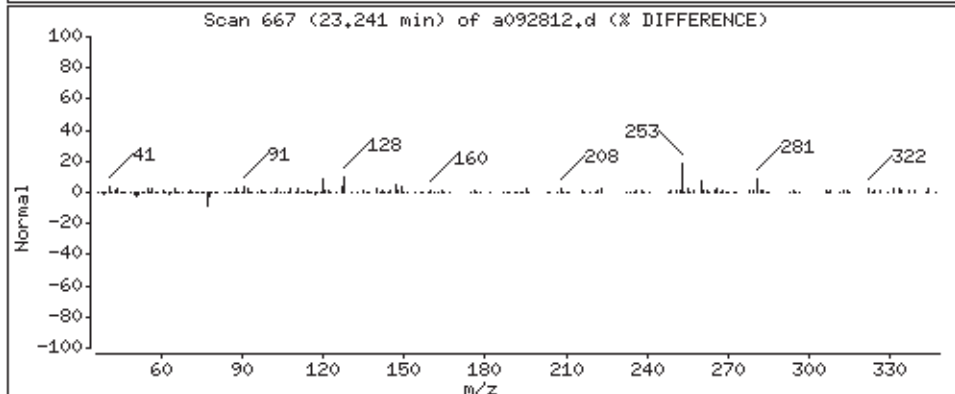
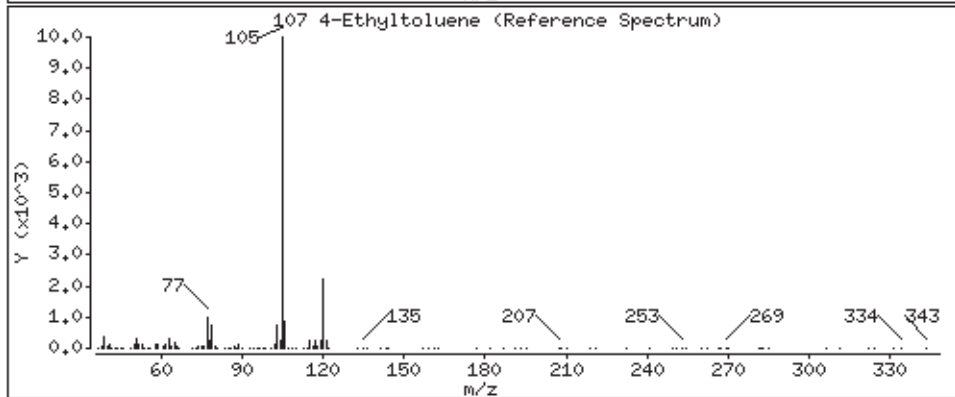
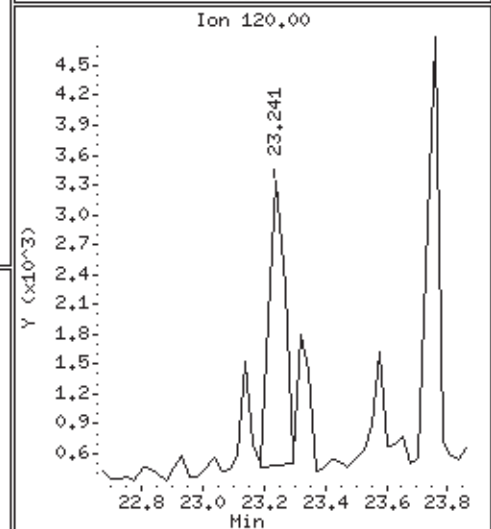
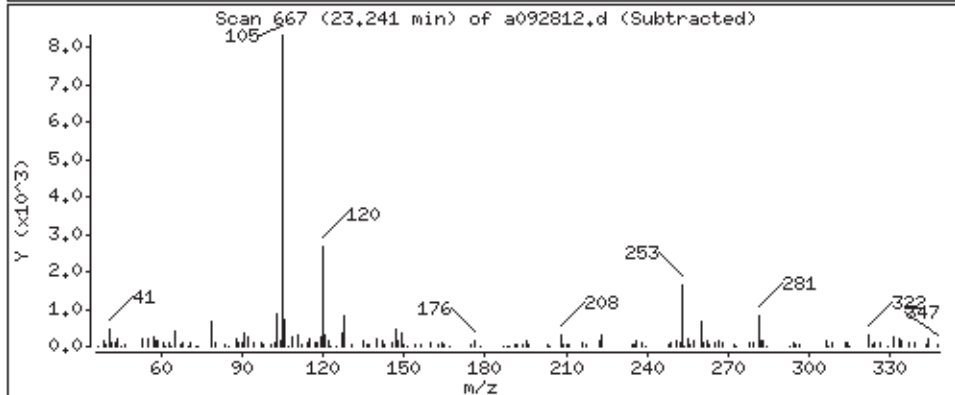
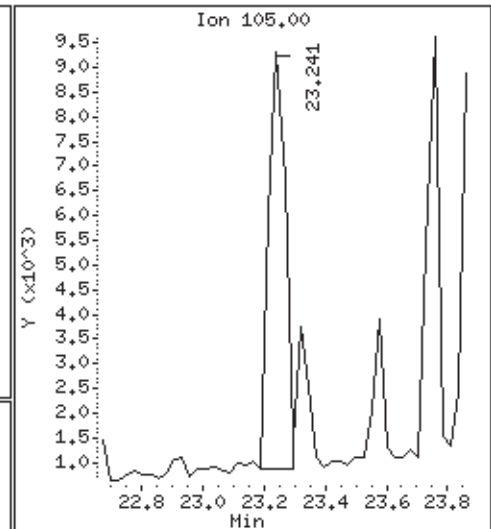
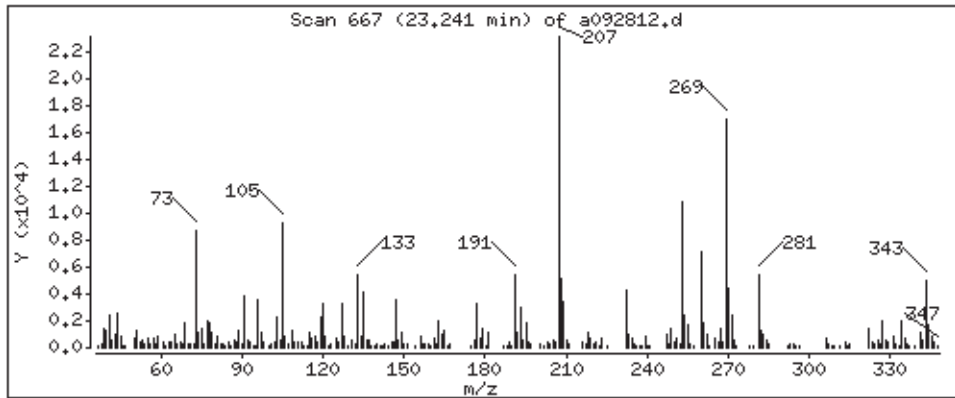
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

107 4-Ethyltoluene

Concentration: 0.2904 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

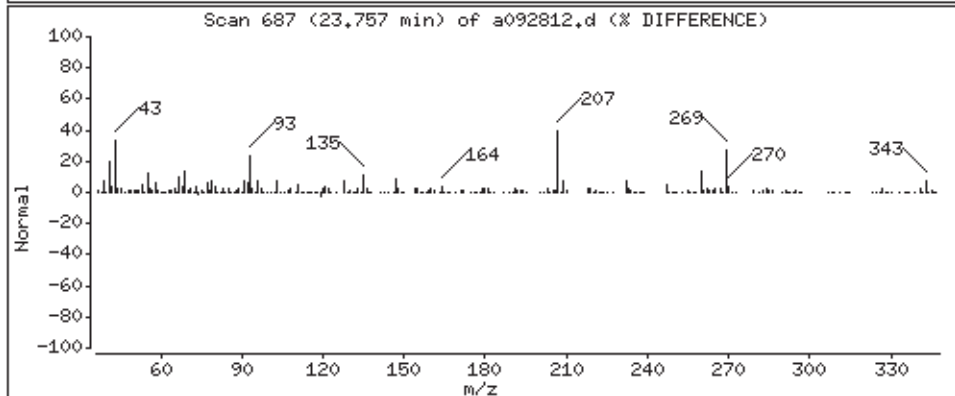
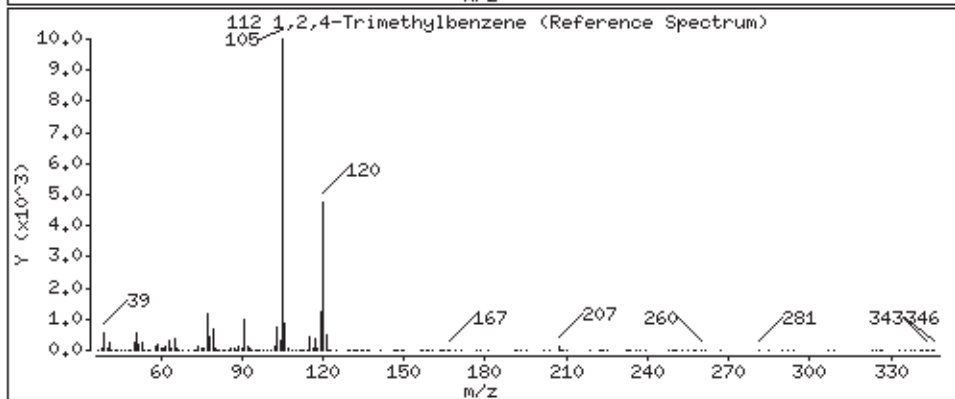
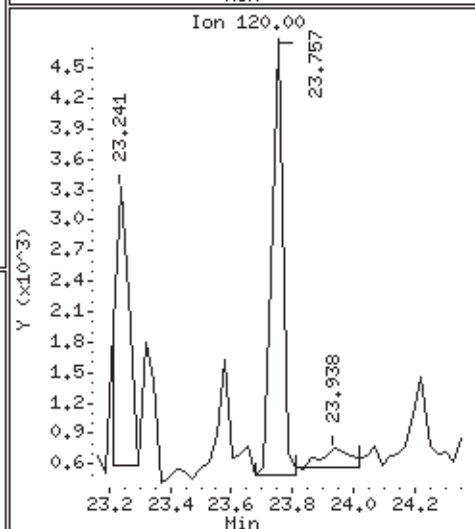
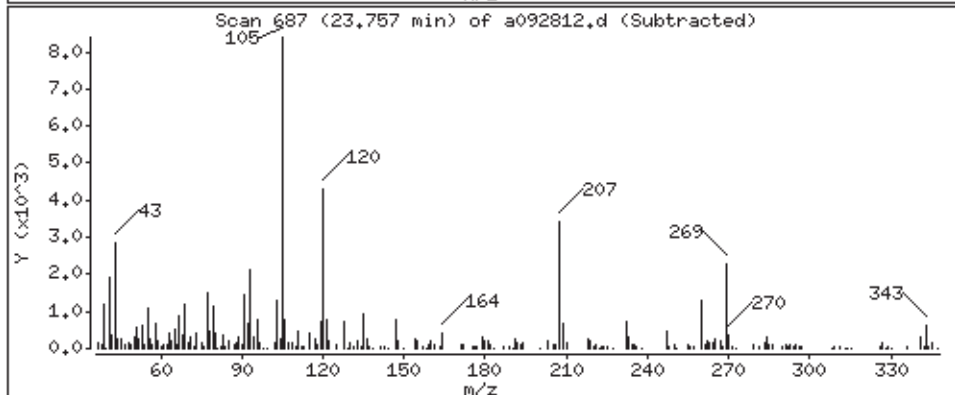
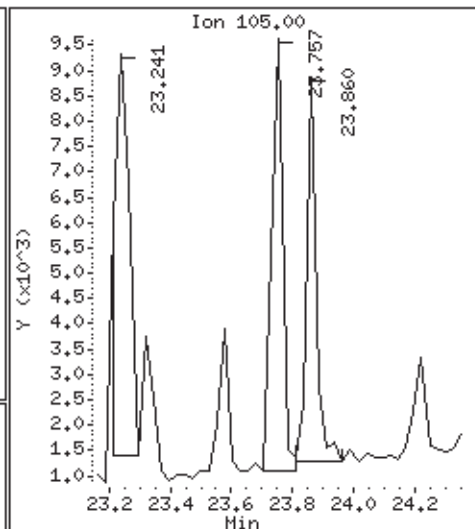
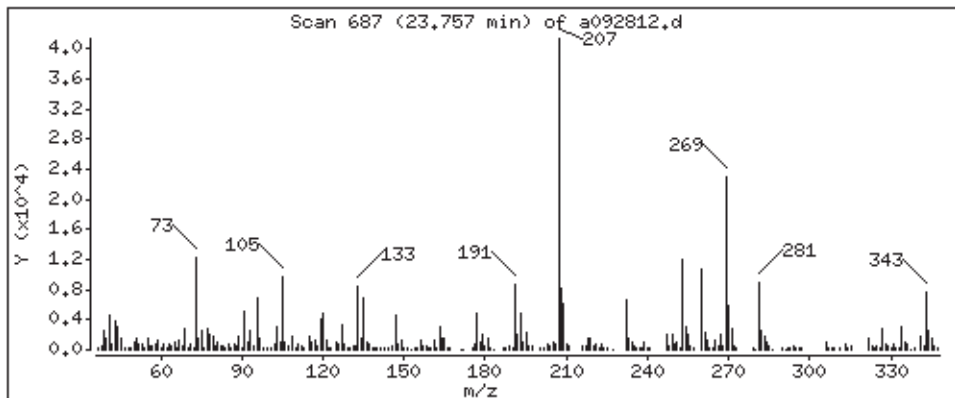
Operator: cr

Column phase: RTX-624

Column diameter: 0.32

112 1,2,4-Trimethylbenzene

Concentration: 0.3475 PPBV



Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: EB-090810

Lab ID#: 1009208-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.50	0.042	1.3
Benzene	0.082	0.37	0.26	1.2
Toluene	0.033	0.88	0.12	3.3
Ethyl Benzene	0.033	0.17	0.14	0.75
m,p-Xylene	0.066	0.71	0.28	3.1
o-Xylene	0.033	0.27	0.14	1.2

Client Sample ID: EB-090810

Lab ID#: 1009208-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092812sim	Date of Collection: 9/8/10 3:17:00 PM
Dil. Factor:	1.64	Date of Analysis: 9/29/10 11:15 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	0.50	0.042	1.3
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.37	0.26	1.2
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.88	0.12	3.3
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Ethyl Benzene	0.033	0.17	0.14	0.75
m,p-Xylene	0.066	0.71	0.28	3.1
o-Xylene	0.033	0.27	0.14	1.2
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092812sim.d
Lab Smp Id: 1009208-09B
Inj Date : 29-SEP-2010 11:15
Operator : cr Inst ID: msda.i
Smp Info : 250ml #34479
Misc Info : 5.5"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.64000
Integrator: HP RTE Compound Sublist: EXPO14301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	FINAL	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.267	15.269	(1.000)	130	375872	10.0000		80.00-	120.00	100.00
15.267	15.269	(1.000)	128	290034			0.00-	30.00	77.16
15.267	15.269	(1.000)	49	421655			0.00-	30.00	112.18

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.082	16.084	(1.053)	65	479325	8.61566	8.616	80.00-	120.00	100.00
16.082	16.084	(1.053)	67	260417			0.00-	30.00	54.33

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.659	16.661	(1.000)	114	1608678	10.0000		80.00-	120.00	100.00
16.659	16.661	(1.000)	88	258019			0.00-	46.17	16.04

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.223	19.225	(1.154)	98	1419203	9.89758	9.898	80.00-	120.00	100.00
19.223	19.225	(1.154)	70	165086			0.00-	41.52	11.63
19.223	19.225	(1.154)	100	954964			36.81-	96.81	67.29

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.468	21.469	(1.000)	117	1490482	10.0000		80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 56 Chlorobenzene-d5 (continued)									
21.468	21.469	(1.000)	82	790470			0.00- 30.00	53.03	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.920	22.922	(1.068)	174	778288	10.3603	10.360	80.00- 120.00	100.00	
22.920	22.922	(1.068)	95	1014600			100.82- 160.82	130.36	
22.920	22.922	(1.068)	176	757571			66.99- 126.99	97.34	

5 Vinyl Chloride CAS #: 75-01-4									
7.947	7.897	(0.520)	62	17742	0.30531	0.5007	80.00- 120.00	100.00	
7.981	7.897	(0.523)	64	24260			1.85- 61.85	136.74	

36 Benzene CAS #: 71-43-2									
16.110	16.112	(0.967)	78	46097	0.22456	0.3683	80.00- 120.00	100.00	
16.110	16.112	(0.967)	77	11443			0.00- 30.00	24.82	

48 Toluene CAS #: 108-88-3									
19.335	19.337	(1.161)	91	121306	0.53977	0.8852	80.00- 120.00	100.00	
19.335	19.337	(1.161)	92	72734			30.39- 90.39	59.96	

58 Ethyl Benzene CAS #: 100-41-4									
21.564	21.566	(1.004)	106	8368	0.10511	0.1724	80.00- 120.00	100.00	
21.564	21.566	(1.004)	91	28300			0.00- 30.00	338.18	

59 m,p-Xylene CAS #: 108-38-3									
21.733	21.735	(1.012)	106	36460	0.43155	0.7077	80.00- 120.00	100.00	
21.733	21.735	(1.012)	91	73216			0.00- 30.00	200.81	

61 o-Xylene CAS #: 95-47-6									
22.263	22.265	(1.037)	106	13042	0.16665	0.2733	80.00- 120.00	100.00	
22.239	22.265	(1.036)	91	25821			181.48- 241.48	197.98	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092812sim.d
 Lab Smp Id: 1009208-09B
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
 Misc Info: 5.5"Hg - 5psi

Calibration Date: 28-SEP-2010
 Calibration Time: 19:58
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	359040	215424	502656	375872	4.69
40 1,4-Difluorobenze	1478522	887113	2069931	1608678	8.80
56 Chlorobenzene-d5	1377474	826484	1928464	1490482	8.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	-0.01
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	-0.01
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-09B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 5.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.616	86.16	70-130
\$ 47 Toluene-d8	10.000	9.898	98.98	70-130
\$ 66 Bromofluorobenzene	10.000	10.360	103.60	70-130

Data File: /chem/msda.i/28Sep2010.b/a092812sim.d

Date: 29-SEP-2010 11:15

Client ID:

Sample Info: 250ml #34479

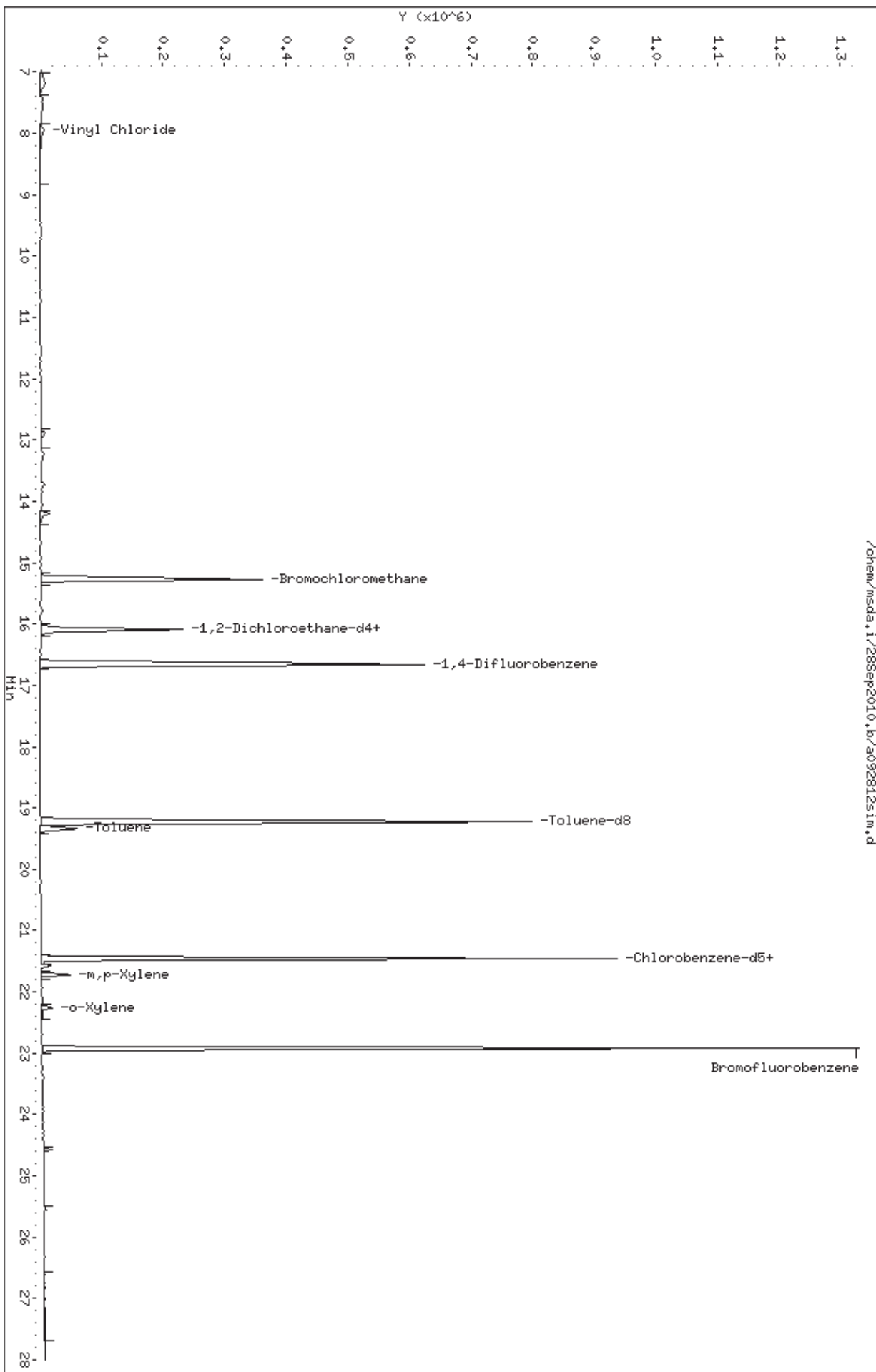
Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53

Page 1



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

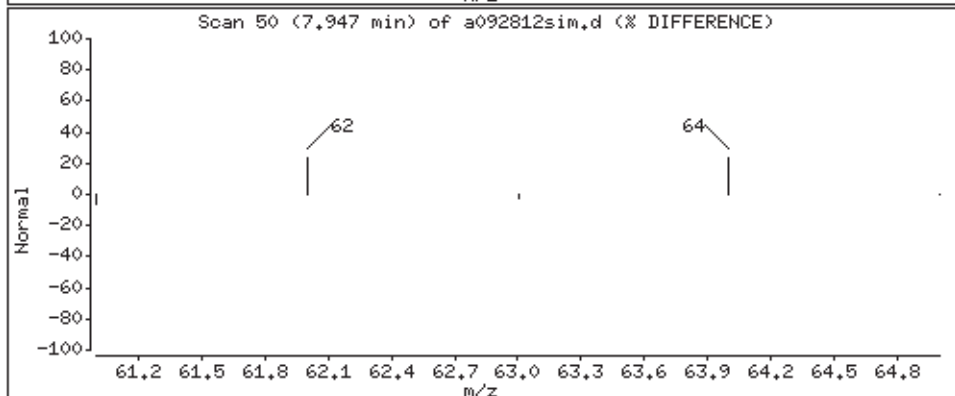
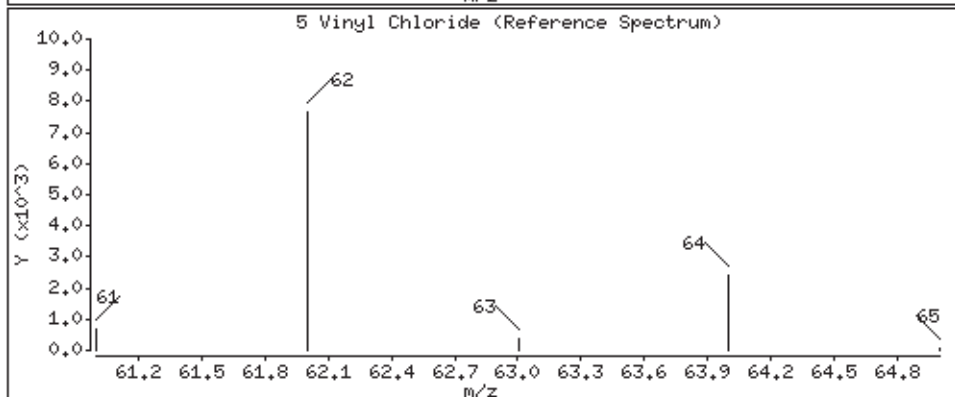
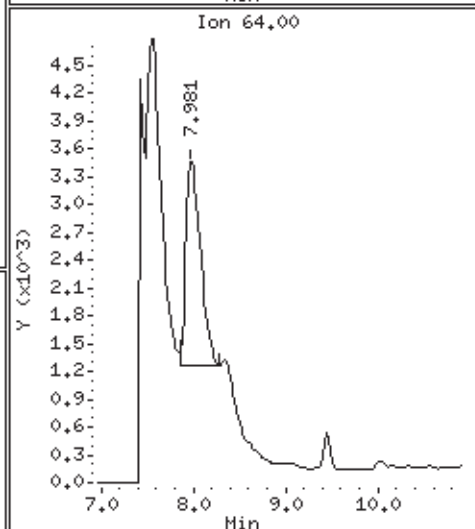
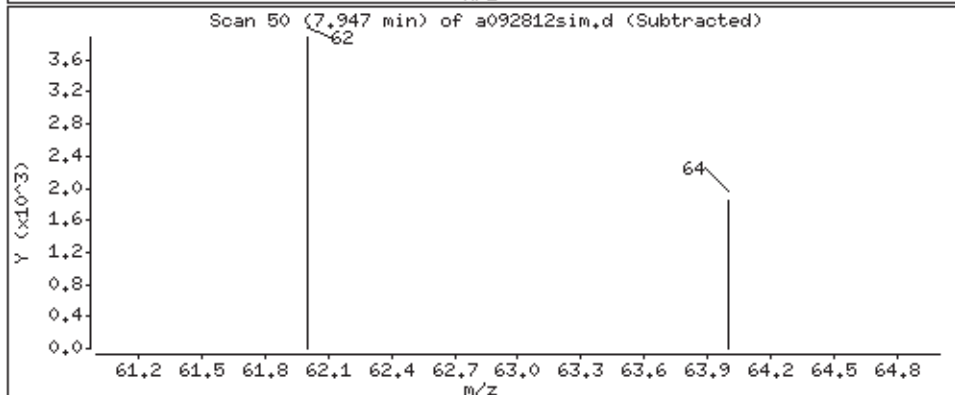
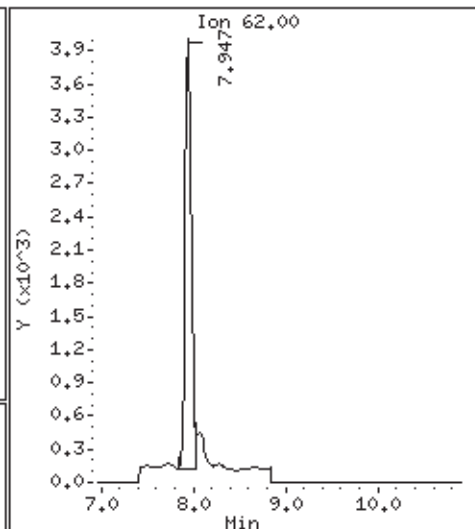
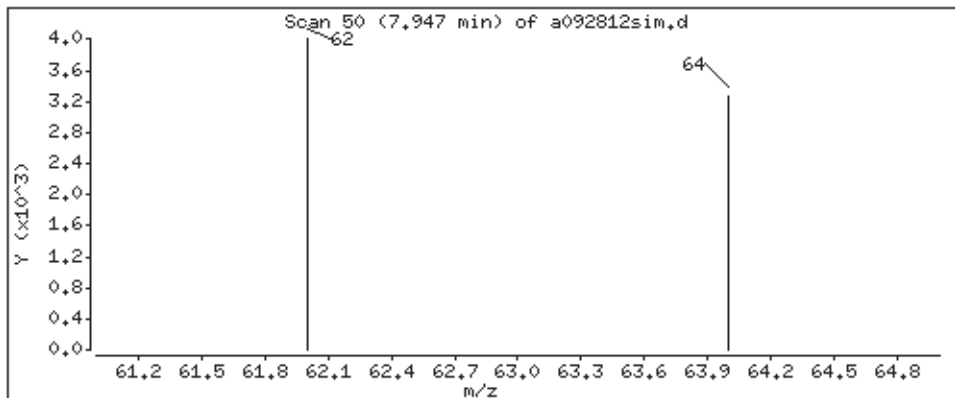
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

5 Vinyl Chloride

Concentration: 0.5007 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

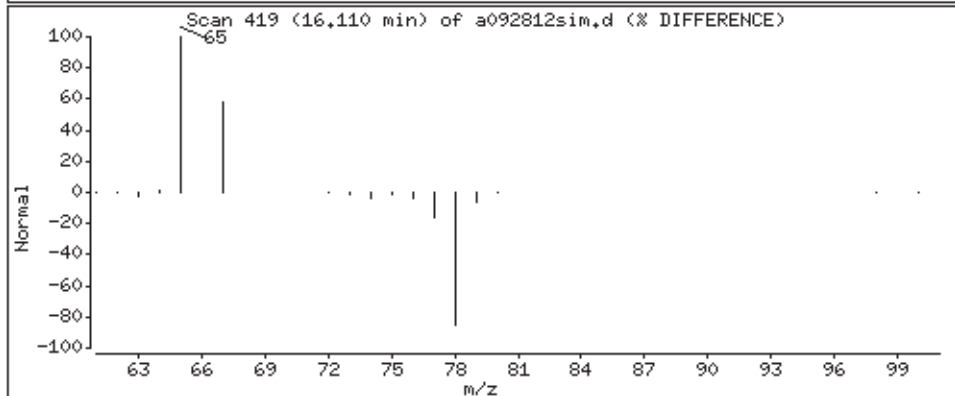
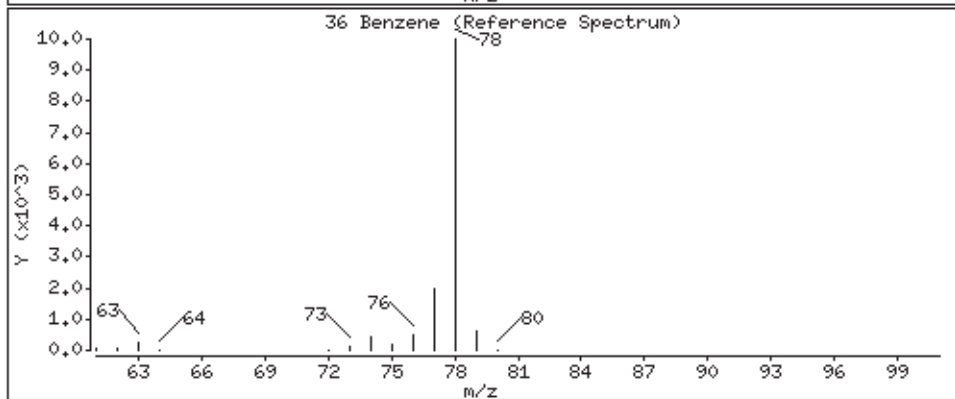
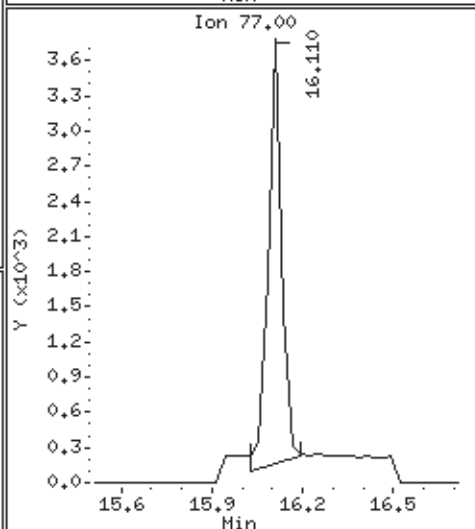
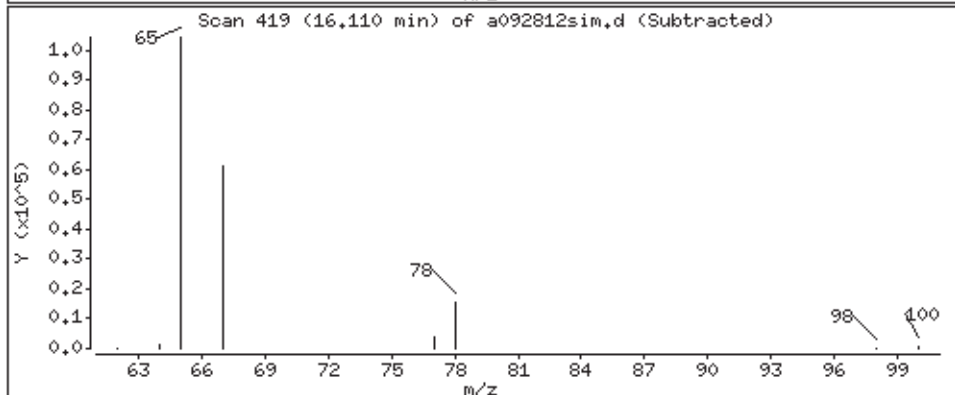
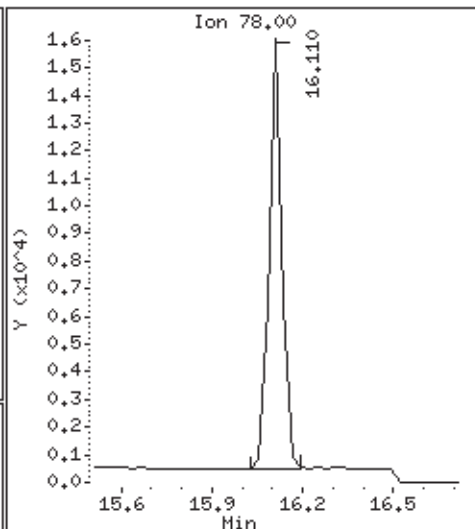
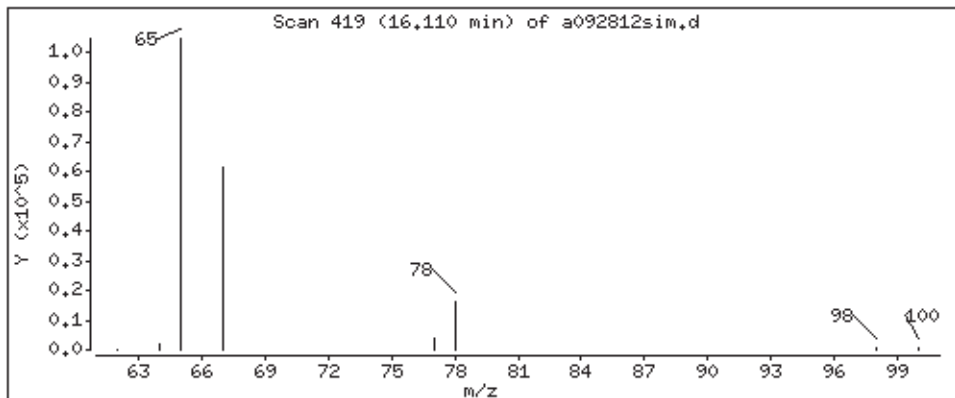
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

36 Benzene

Concentration: 0.3683 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

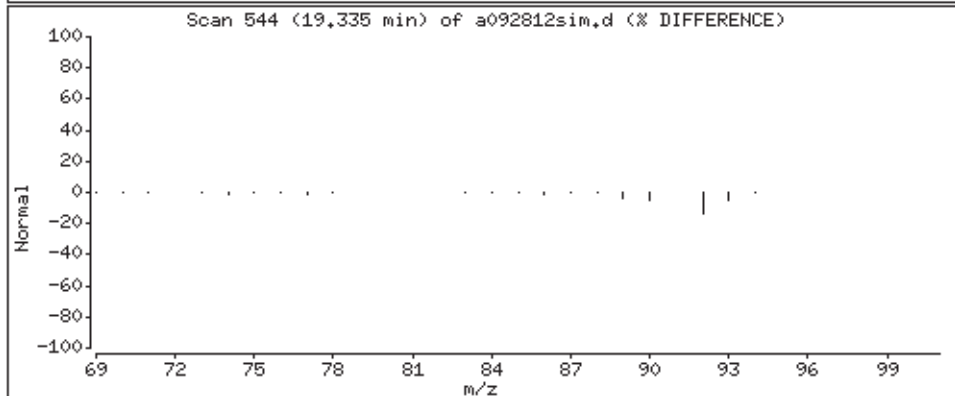
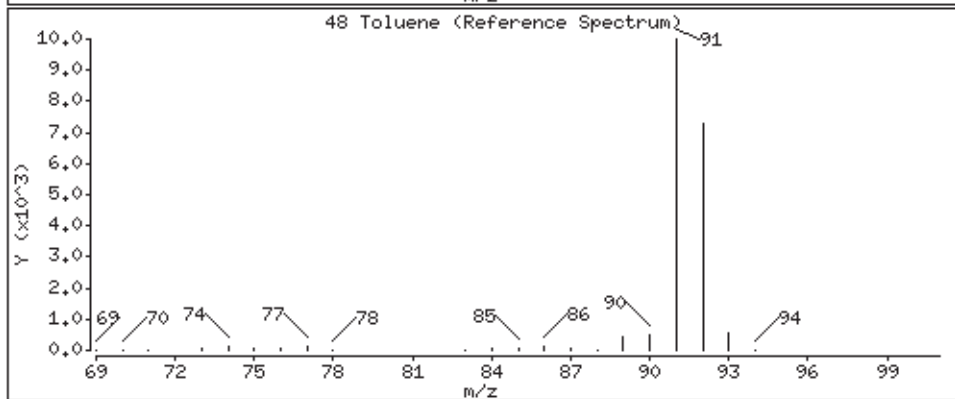
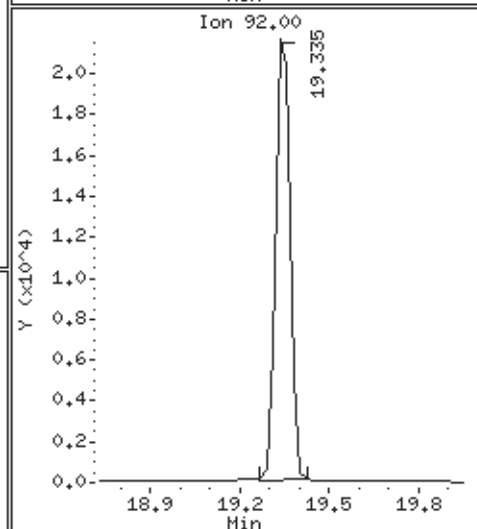
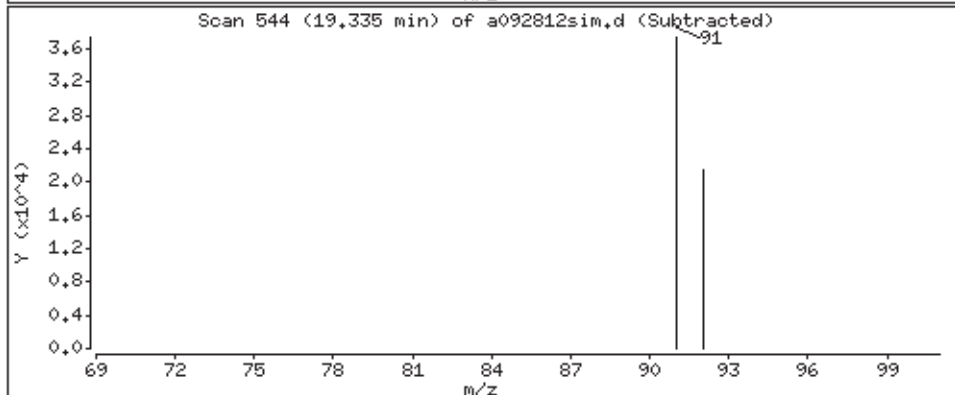
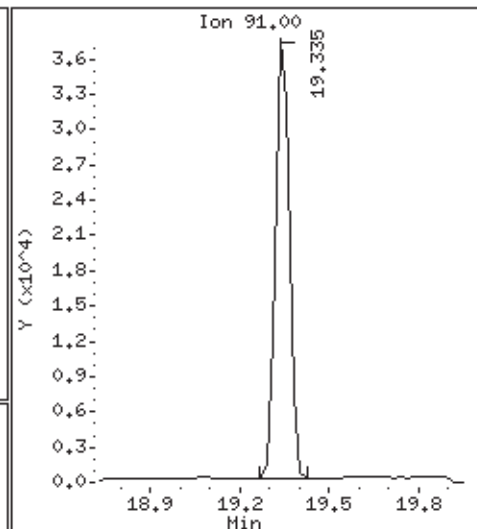
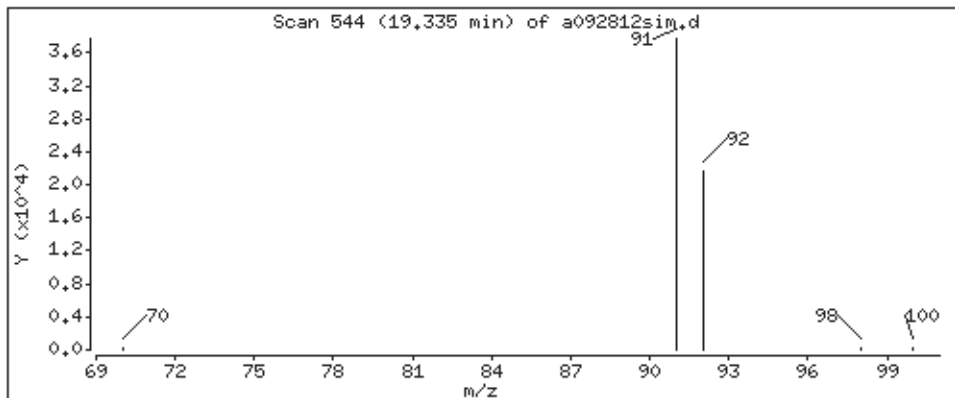
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

48 Toluene

Concentration: 0.8852 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

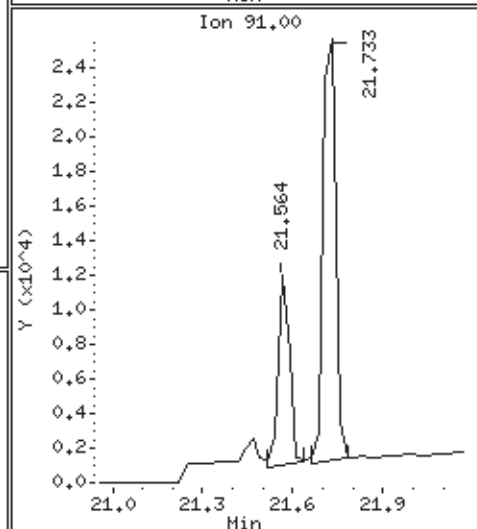
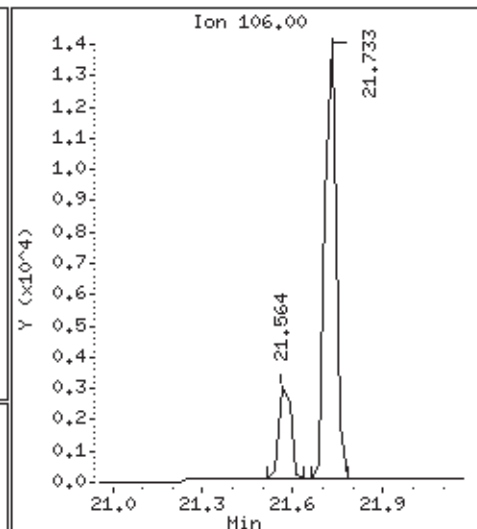
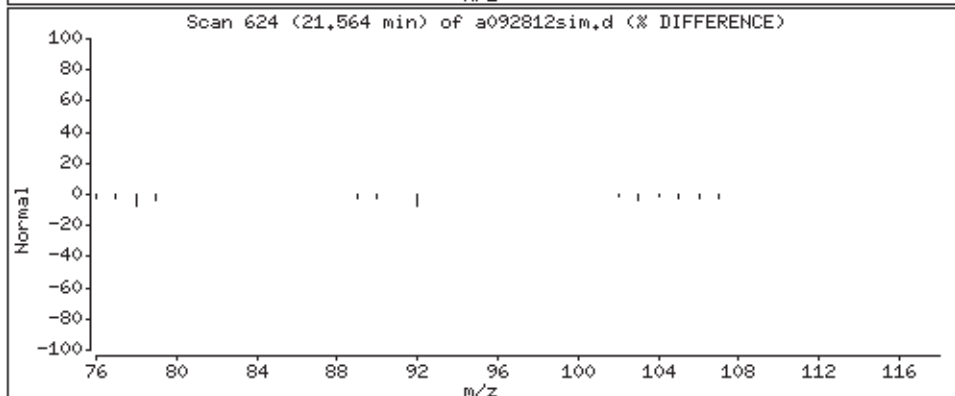
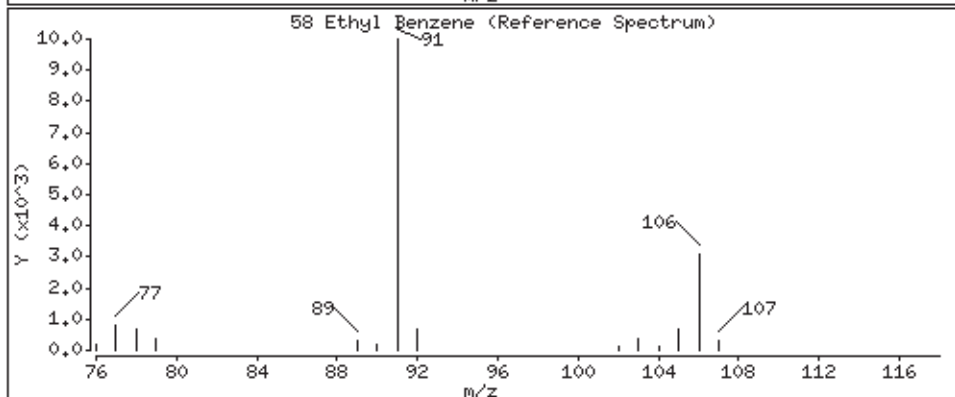
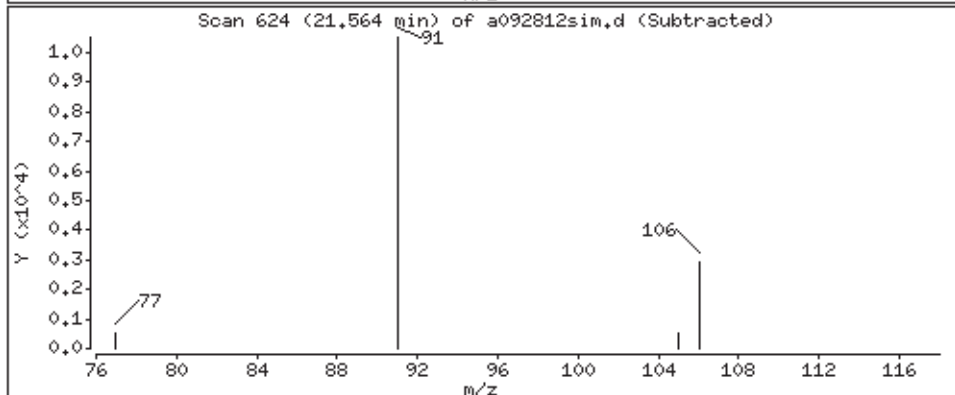
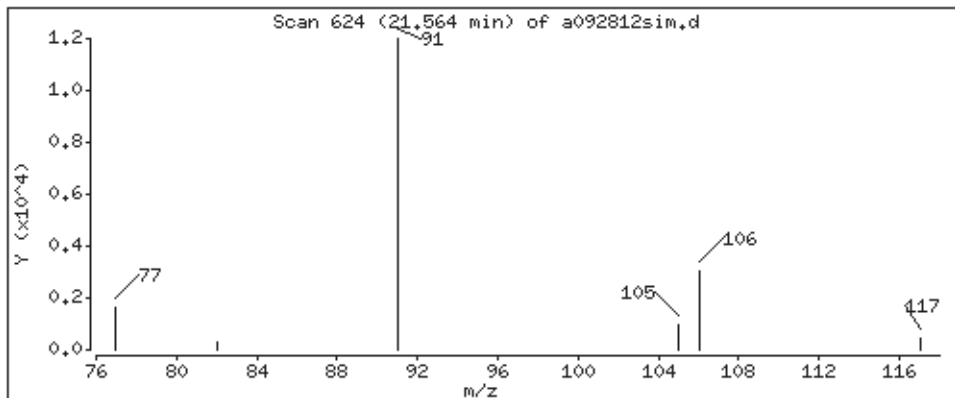
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

58 Ethyl Benzene

Concentration: 0.1724 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

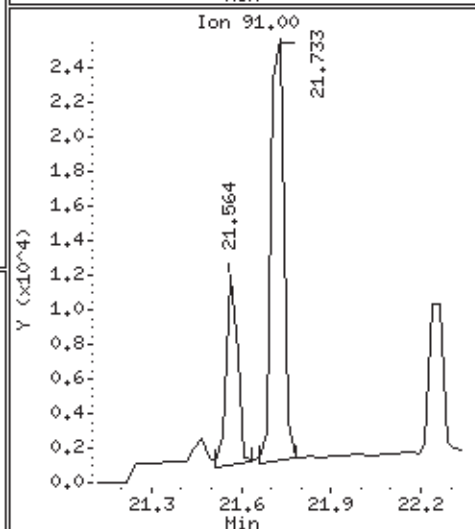
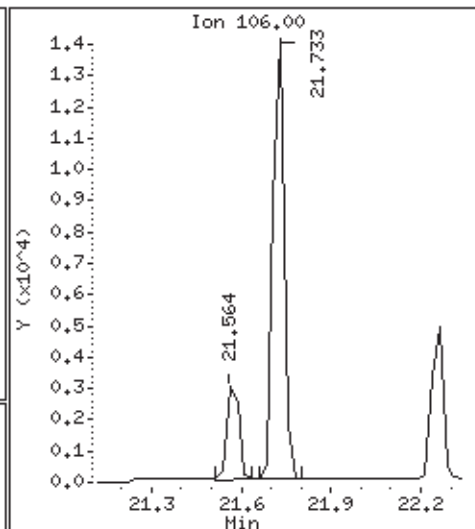
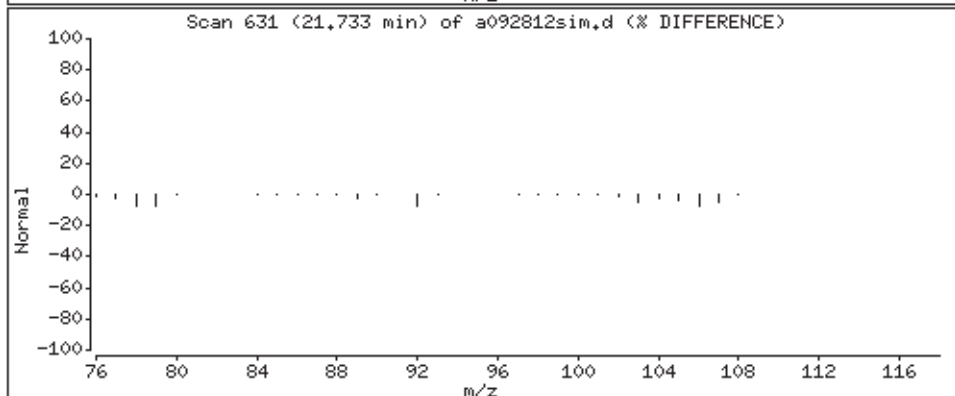
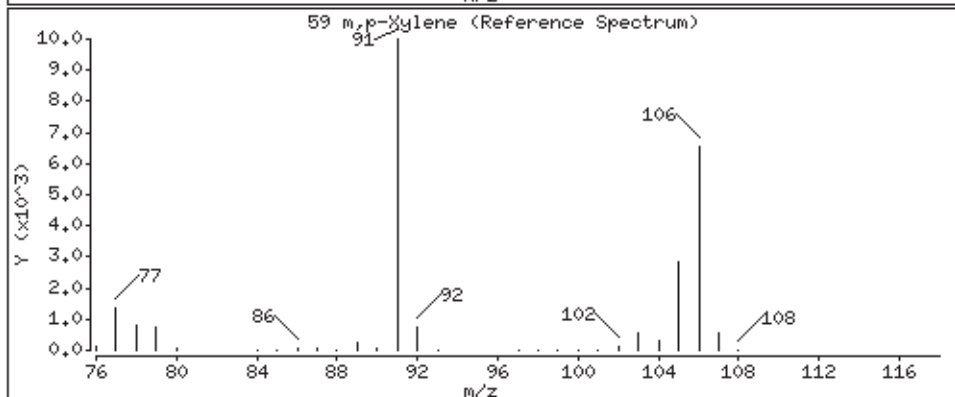
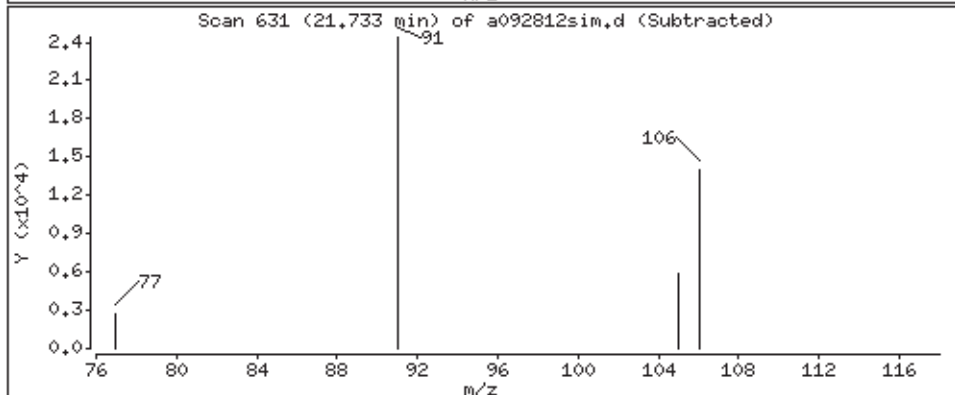
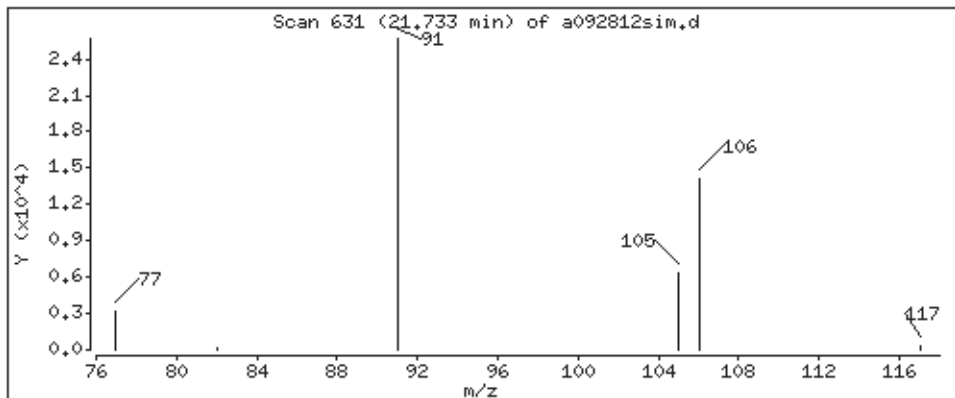
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

59 m,p-Xylene

Concentration: 0.7077 PPBV



Date : 29-SEP-2010 11:15

Client ID:

Instrument: msda.i

Sample Info: 250ml #34479

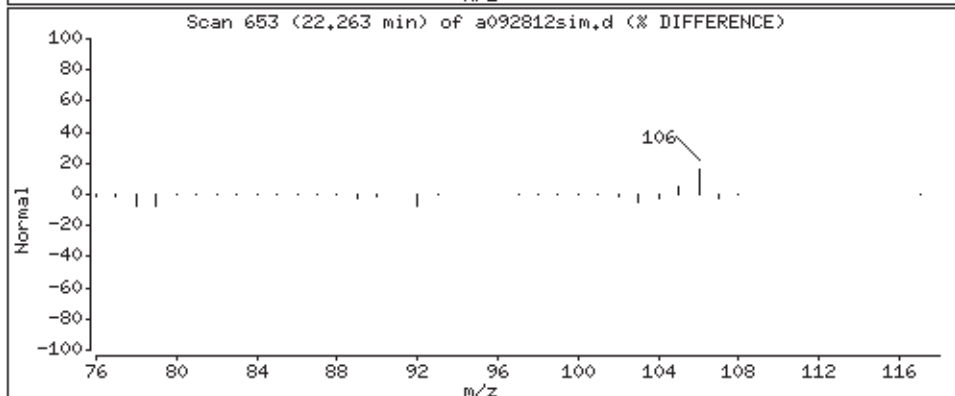
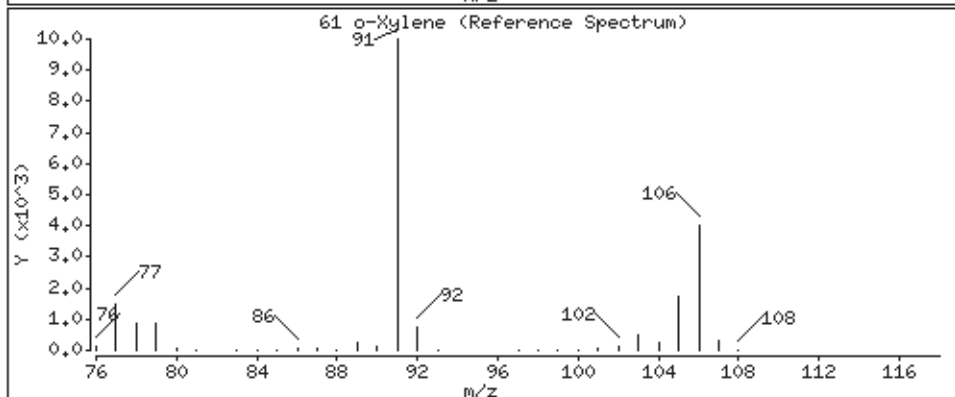
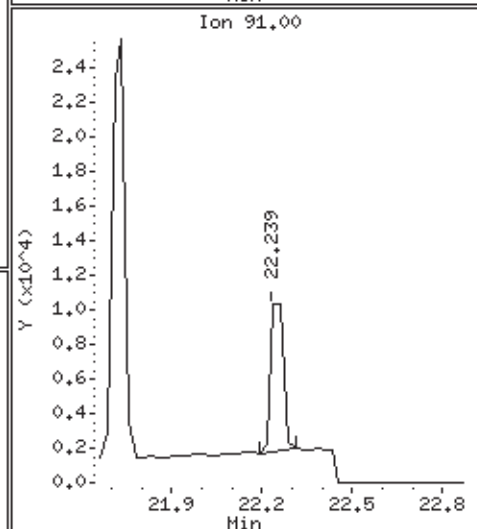
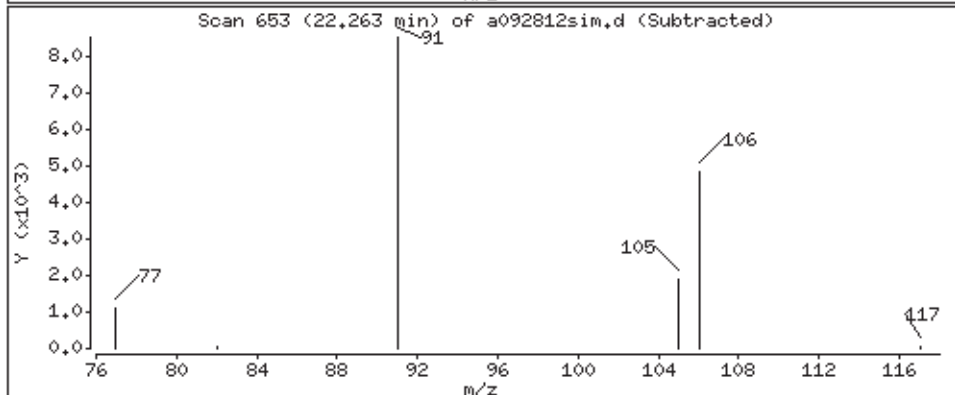
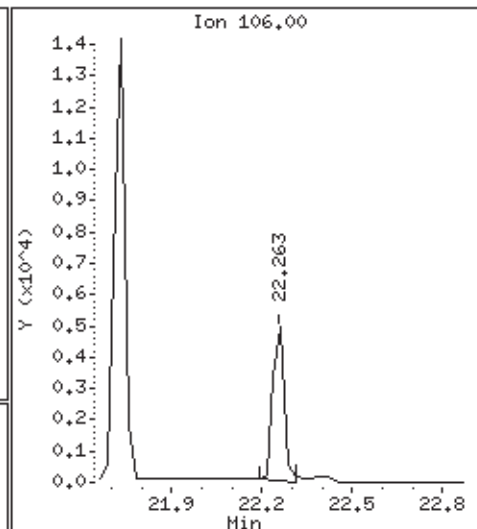
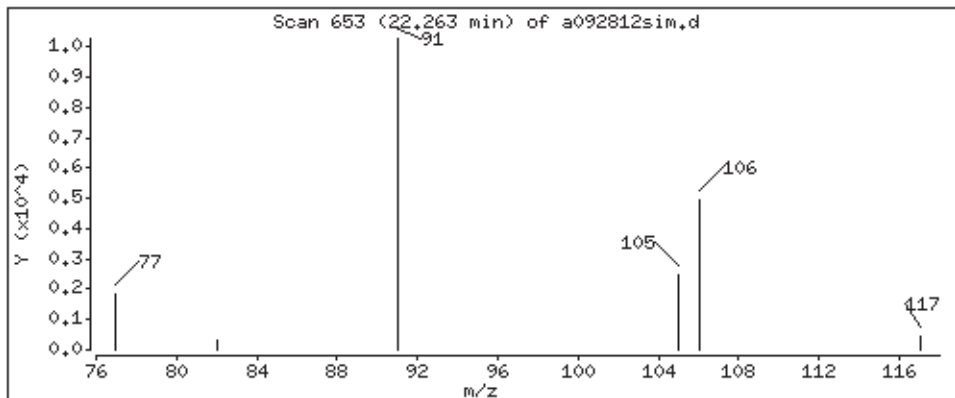
Operator: cr

Column phase: RTX-624

Column diameter: 0.53

61 o-Xylene

Concentration: 0.2733 PPBV





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: TB-090810

Lab ID#: 1009208-10A

No Detections Were Found.

Client Sample ID: TB-090810

Lab ID#: 1009208-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092813	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/29/10 12:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected

Client Sample ID: TB-090810

Lab ID#: 1009208-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092813	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/29/10 12:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092813.d
 Lab Smp Id: 1009208-10A
 Inj Date : 29-SEP-2010 12:06
 Operator : cr Inst ID: msda.i
 Smp Info : 250ml #13668
 Misc Info : 28.5"Hg - 5psi
 Comment :
 Method : /chem/msda.i/28Sep2010.b/a1010915a.m
 Meth Date : 29-Sep-2010 11:04 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
 Als bottle: 32
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: EXP014301.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.253	15.255	(1.000)	130	358937	10.0000			80.00- 120.00	100.00
15.253	15.255	(1.000)	128	281445				48.35- 108.35	78.41
15.253	15.255	(1.000)	49	385968				89.31- 149.31	107.53

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.645	16.647	(1.000)	114	1498534	10.0000			80.00- 120.00	100.00
16.645	16.647	(1.000)	88	236567				0.00- 46.24	15.79

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.454	21.456	(1.000)	117	1394730	10.0000			80.00- 120.00	100.00
21.454	21.456	(1.000)	82	758625				25.95- 85.95	54.39

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.096	16.098	(1.055)	65	440864	8.45024	8.450		80.00- 120.00	100.00
16.096	16.098	(1.055)	67	238063				0.00- 30.00	54.00

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.232	19.211	(1.155)	98	1437306	9.41719	9.417		80.00- 120.00	100.00
19.209	19.211	(1.154)	70	153555				0.00- 30.00	10.68

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====

\$ 80 Toluene-d8 (continued)

19.232	19.211	(1.155)	100	975145			37.86- 97.86	67.85
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\$ 100 Bromofluorobenzene

CAS #: 460-00-4

22.932	22.934	(1.069)	174	715075	10.0343	10.034	80.00- 120.00	100.00
22.932	22.934	(1.069)	95	913462			98.89- 158.89	127.74
22.932	22.934	(1.069)	176	689996			67.15- 127.15	96.49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092813.d
 Lab Smp Id: 1009208-10A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
 Misc Info: 28.5"Hg - 5psi

Calibration Date: 28-SEP-2010
 Calibration Time: 19:58
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	358937	2.11
66 1,4-Difluorobenze	1417041	850225	1983857	1498534	5.75
88 Chlorobenzene-d5	1320371	792223	1848519	1394730	5.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.25	-0.01
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	-0.01
88 Chlorobenzene-d5	21.46	21.13	21.79	21.45	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-10A
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 28.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.450	84.50	70-130
\$ 80 Toluene-d8	10.000	9.417	94.17	70-130
\$ 100 Bromofluorobenzene	10.000	10.034	100.34	70-130

Date : 29-SEP-2010 12:06

Client ID:

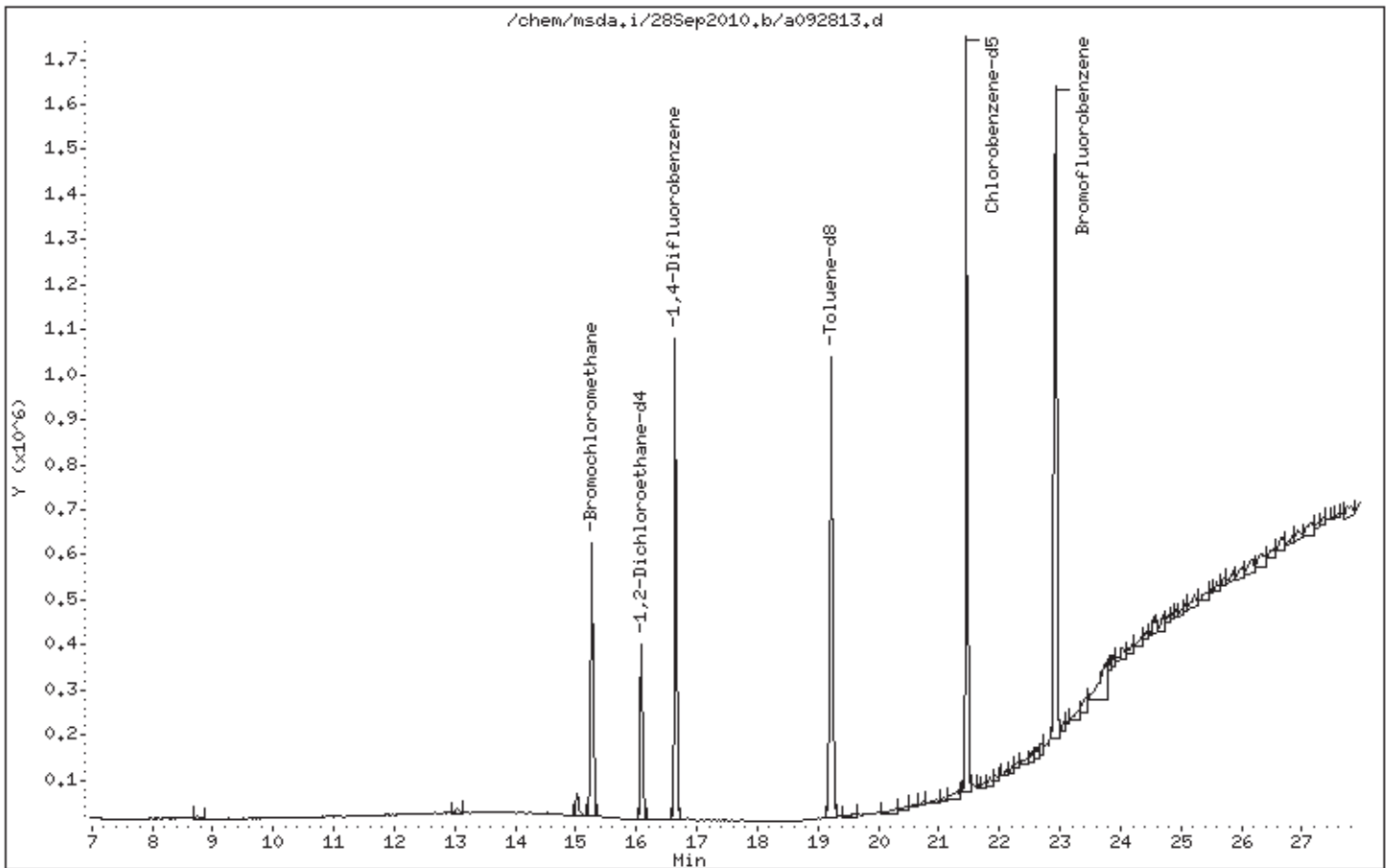
Instrument: msda.i

Sample Info: 250ml #13668

Operator: cr

Column phase: RTX-624

Column diameter: 0.32





Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: TB-090810

Lab ID#: 1009208-10B

No Detections Were Found.

Client Sample ID: TB-090810

Lab ID#: 1009208-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092813sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/29/10 12:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092813sim.d
Lab Smp Id: 1009208-10B
Inj Date : 29-SEP-2010 12:06
Operator : cr Inst ID: msda.i
Smp Info : 250ml #13668
Misc Info : 28.5"Hg - 5psi
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 29-Sep-2010 11:05 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: EXP014301.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.267	15.269	(1.000)	130	368387	10.0000			80.00- 120.00	100.00
15.267	15.269	(1.000)	128	285567				0.00- 30.00	77.52
15.267	15.269	(1.000)	49	412508				0.00- 30.00	111.98

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.082	16.084	(1.053)	65	469869	8.61730	8.617		80.00- 120.00	100.00
16.082	16.084	(1.053)	67	254695				0.00- 30.00	54.21

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.659	16.661	(1.000)	114	1574601	10.0000			80.00- 120.00	100.00
16.659	16.661	(1.000)	88	252471				0.00- 46.17	16.03

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.223	19.225	(1.154)	98	1388856	9.89556	9.896		80.00- 120.00	100.00
19.223	19.225	(1.154)	70	157608				0.00- 41.52	11.35
19.223	19.225	(1.154)	100	935135				36.81- 96.81	67.33

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.467	21.469	(1.000)	117	1459407	10.0000			80.00- 120.00	100.00

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 56 Chlorobenzene-d5 (continued)								
21.467	21.469	(1.000)	82	777411			0.00- 30.00	53.27

\$ 66 Bromofluorobenzene					CAS #: 460-00-4			
22.920	22.922	(1.068)	174	748239	10.1724	10.172	80.00- 120.00	100.00
22.920	22.922	(1.068)	95	973345			100.82- 160.82	130.08
22.920	22.922	(1.068)	176	726347			66.99- 126.99	97.07

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1009208-10B
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: EXP014301.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: 28.5"Hg - 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.617	86.17	70-130
\$ 47 Toluene-d8	10.000	9.896	98.96	70-130
\$ 66 Bromofluorobenzene	10.000	10.172	101.72	70-130

Data File: /chem/msda.i/28Sep2010.b/a092813sim.d

Date: 29-SEP-2010 12:06

Client ID:

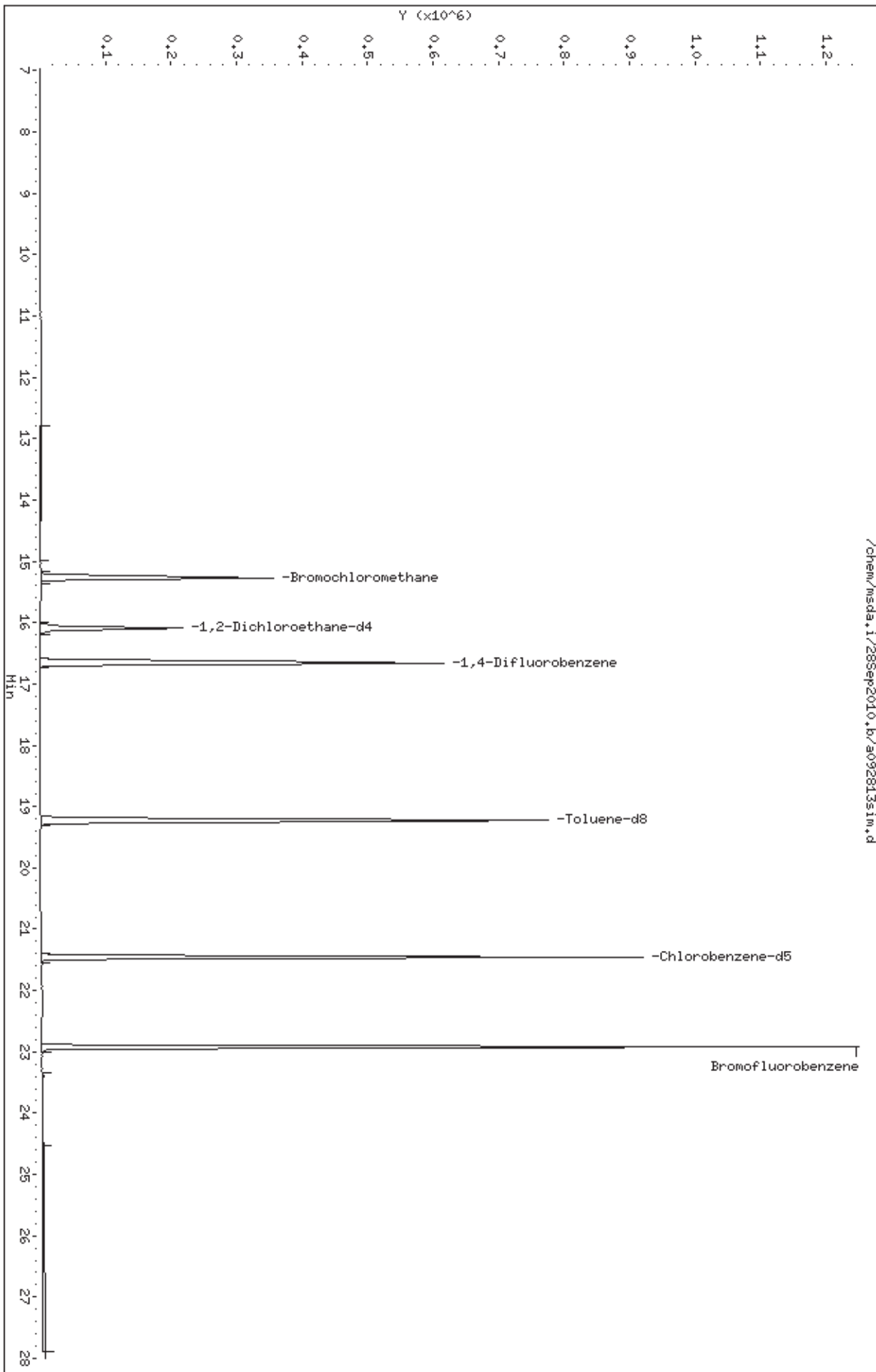
Sample Info: 250ml #13668

Column phase: RTX-624

Instrument: msda.i

Operator: cr

Column diameter: 0.53



QC Results and Raw Data

Client Sample ID: Lab Blank

Lab ID#: 1009208-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092724	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/28/10 07:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1009208-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092724	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/28/10 07:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092724.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 28-SEP-2010 07:31
Operator : cr Inst ID: msda.i
Smp Info : 250mL #34384
Misc Info : HUMID
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
Meth Date : 06-Oct-2010 11:22 ejakob Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	377458	10.0000			80.00- 120.00	100.00
15.255	15.255	(1.000)	128	290670				48.35- 108.35	77.01
15.255	15.255	(1.000)	49	419072				89.31- 149.31	111.02

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1468019	10.0000			80.00- 120.00	100.00
16.647	16.647	(1.000)	88	231129				0.00- 46.24	15.74

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1364595	10.0000			80.00- 120.00	100.00
21.456	21.456	(1.000)	82	752882				25.95- 85.95	55.17

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	456042	8.31226	8.312		80.00- 120.00	100.00
16.098	16.098	(1.055)	67	248612				0.00- 30.00	54.52

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1429509	9.56079	9.561		80.00- 120.00	100.00
19.211	19.234	(1.154)	70	155280				0.00- 30.00	10.86

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.211	19.234	(1.154)	100	964021			37.02-	97.02	67.44

\$ 100 Bromofluorobenzene									
						CAS #: 460-00-4			
22.934	22.934	(1.069)	174	678184	9.72677	9.727	80.00-	120.00	100.00
22.934	22.934	(1.069)	95	870622			99.22-	159.22	128.38
22.934	22.934	(1.069)	176	661464			66.37-	126.37	97.53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092724.d
 Lab Smp Id: Lab Blank
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cr
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
 Misc Info: HUMID

Calibration Date: 27-SEP-2010
 Calibration Time: 19:59
 Client Smp ID: Lab Blank
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	377458	6.50
66 1,4-Difluorobenze	1467275	880365	2054185	1468019	0.05
88 Chlorobenzene-d5	1353012	811807	1894217	1364595	0.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: HUMID

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.312	83.12	70-130
\$ 80 Toluene-d8	10.000	9.561	95.61	70-130
\$ 100 Bromofluorobenzene	10.000	9.727	97.27	70-130

Date : 28-SEP-2010 07:31

Client ID: Lab Blank

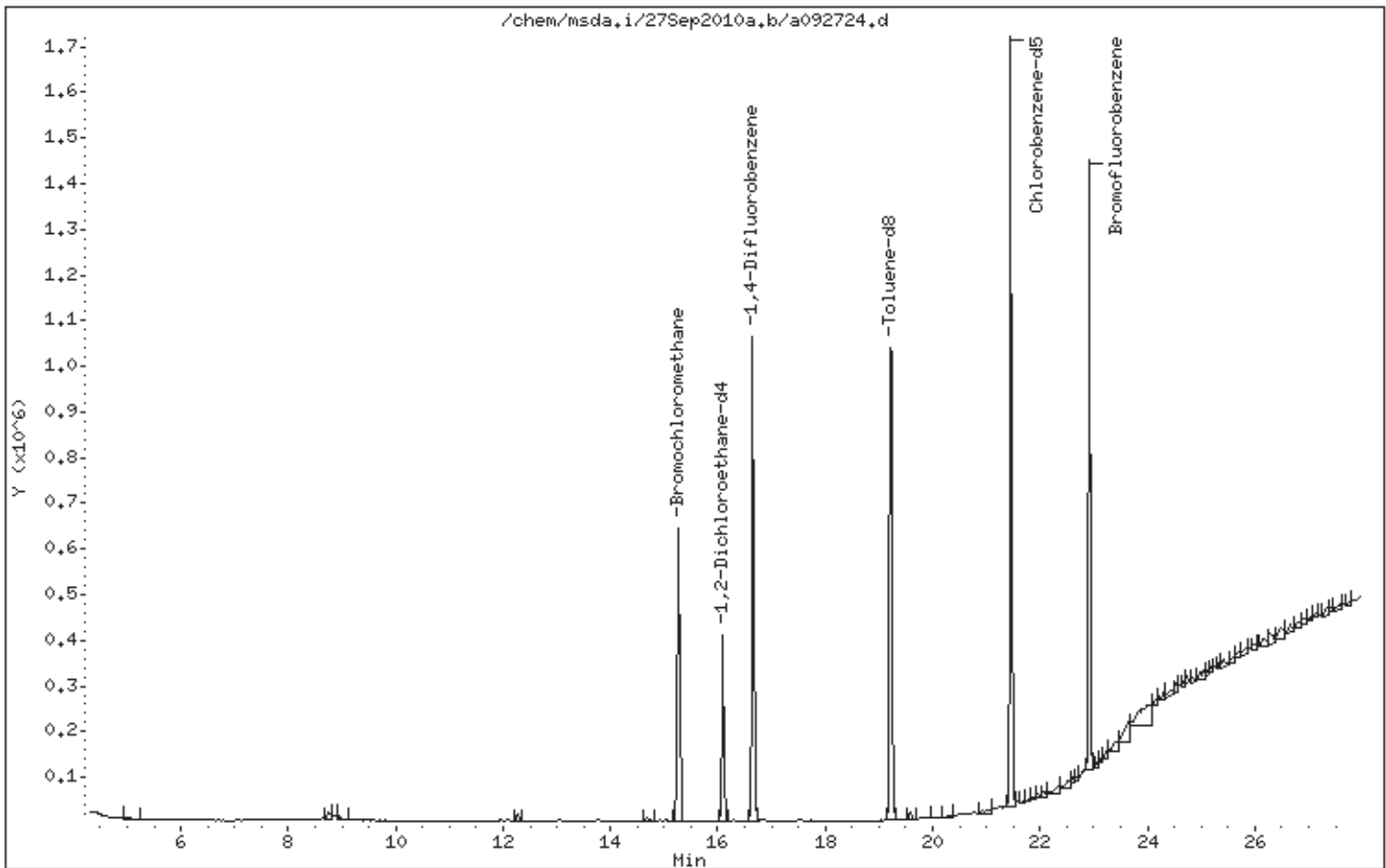
Instrument: msda.i

Sample Info: 250mL #34384

Operator: cr

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: Lab Blank

Lab ID#: 1009208-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092724sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/28/10 07:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092724sim.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 28-SEP-2010 07:31
Operator : cr Inst ID: msda.i
Smp Info : 250mL #34384
Misc Info : HUMID
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 10:31 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	383454	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	297291				0.00- 30.00	77.53
15.269	15.269	(1.000)	49	451240				0.00- 30.00	117.68

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1533654	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	245192				0.00- 46.02	15.99

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.470	(1.000)	117	1410593	10.0000			80.00- 120.00	100.00
21.470	21.470	(1.000)	82	751444				0.00- 30.00	53.27

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.085	16.084	(1.053)	65	487739	8.59353	8.594		80.00- 120.00	100.00
16.085	16.084	(1.053)	67	263528				0.00- 30.00	54.03

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1355496	9.91572	9.916		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	156191				0.00- 41.54	11.52

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	902756			36.40- 96.40	66.60	

\$ 66 Bromofluorobenzene									
						CAS #: 460-00-4			
22.922	22.922	(1.068)	174	722669	10.1648	10.165	80.00- 120.00	100.00	
22.922	22.922	(1.068)	95	935749			99.33- 159.33	129.49	
22.922	22.922	(1.068)	176	699585			66.67- 126.67	96.81	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 27-SEP-2010
Lab File ID: a092724sim.d	Calibration Time: 19:59
Lab Smp Id: Lab Blank	Client Smp ID: Lab Blank
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: cr	
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m	
Misc Info: HUMID	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	361425	216855	505995	383454	6.10
40 1,4-Difluorobenze	1535311	921187	2149435	1533654	-0.11
56 Chlorobenzene-d5	1413711	848227	1979195	1410593	-0.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

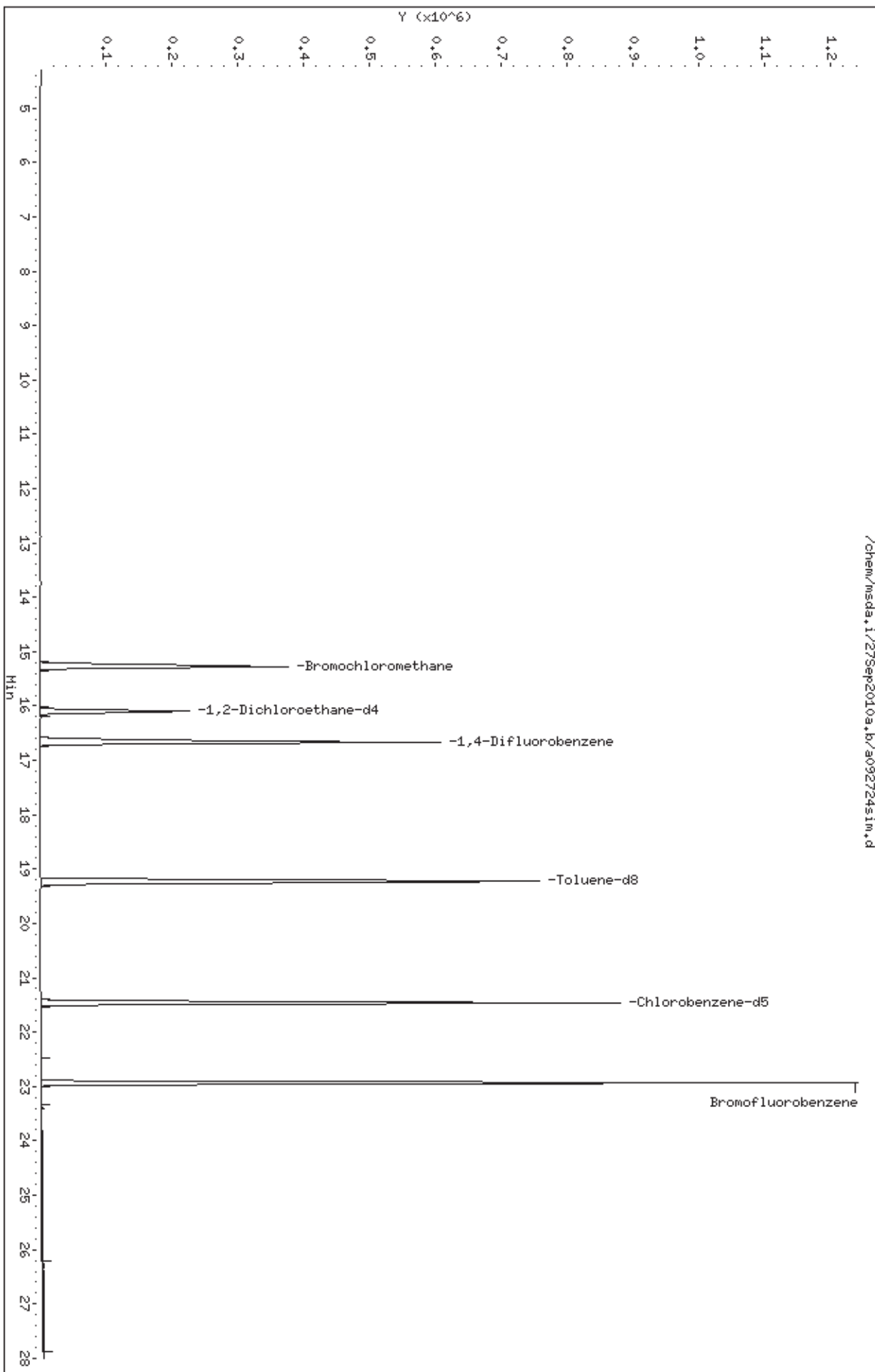
Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Misc Info: HUMID

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.594	85.94	70-130
\$ 47 Toluene-d8	10.000	9.916	99.16	70-130
\$ 66 Bromofluorobenzene	10.000	10.165	101.65	70-130

Data File: /chem/msda.1/27Sep2010a.k/s092724s.im.d
Date : 28-SEP-2010 07:31
Client ID: Lab Blank
Sample Info: 250mL #34384

Column phase: RTX-624

Instrument: msda.i
Operator: cr
Column diameter: 0.32



Client Sample ID: Lab Blank

Lab ID#: 1009208-11C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092806	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 10:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	0.10	Not Detected	0.21	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.10	Not Detected	0.39	Not Detected
Chloroethane	0.10	Not Detected	0.26	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	Not Detected	0.29	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1009208-11C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092806	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 10:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092806.d
Lab Smp Id: lab blank Client Smp ID: lab blank
Inj Date : 28-SEP-2010 22:56
Operator : ea Inst ID: msda.i
Smp Info : 250ml #34384;lab blank; lab blank
Misc Info : humid
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m
Meth Date : 28-Sep-2010 20:40 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	347456	10.0000		80.00- 120.00	100.00	
15.255	15.255	(1.000)	128	268845			48.35- 108.35	77.38	
15.255	15.255	(1.000)	49	377690			89.31- 149.31	108.70	

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1398023	10.0000		80.00- 120.00	100.00	
16.647	16.647	(1.000)	88	224296			0.00- 46.24	16.04	

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1317201	10.0000		80.00- 120.00	100.00	
21.456	21.456	(1.000)	82	723222			25.95- 85.95	54.91	

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	430071	8.51575	8.516	80.00- 120.00	100.00	
16.098	16.098	(1.055)	67	234264			0.00- 30.00	54.47	

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.211	19.211	(1.154)	98	1350290	9.48312	9.483	80.00- 120.00	100.00	
19.211	19.211	(1.154)	70	147151			0.00- 30.00	10.90	

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.211	19.211	(1.154)	100	914882				37.86- 97.86	67.75

\$ 100 Bromofluorobenzene									
							CAS #: 460-00-4		
22.934	22.934	(1.069)	174	676291	10.0486	10.049		80.00- 120.00	100.00
22.908	22.908	(1.068)	95	872174				98.89- 158.89	128.96
22.934	22.934	(1.069)	176	659356				67.15- 127.15	97.50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 28-SEP-2010
Lab File ID: a092806.d	Calibration Time: 19:58
Lab Smp Id: lab blank	Client Smp ID: lab blank
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m	
Misc Info: humid	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	347456	-1.15
66 1,4-Difluorobenze	1417041	850225	1983857	1398023	-1.34
88 Chlorobenzene-d5	1320371	792223	1848519	1317201	-0.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: lab blank Client Smp ID: lab blank
Level: LOW Operator: ea
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.516	85.16	70-130
\$ 80 Toluene-d8	10.000	9.483	94.83	70-130
\$ 100 Bromofluorobenzene	10.000	10.049	100.49	70-130

Date : 28-SEP-2010 22:56

Client ID: lab blank

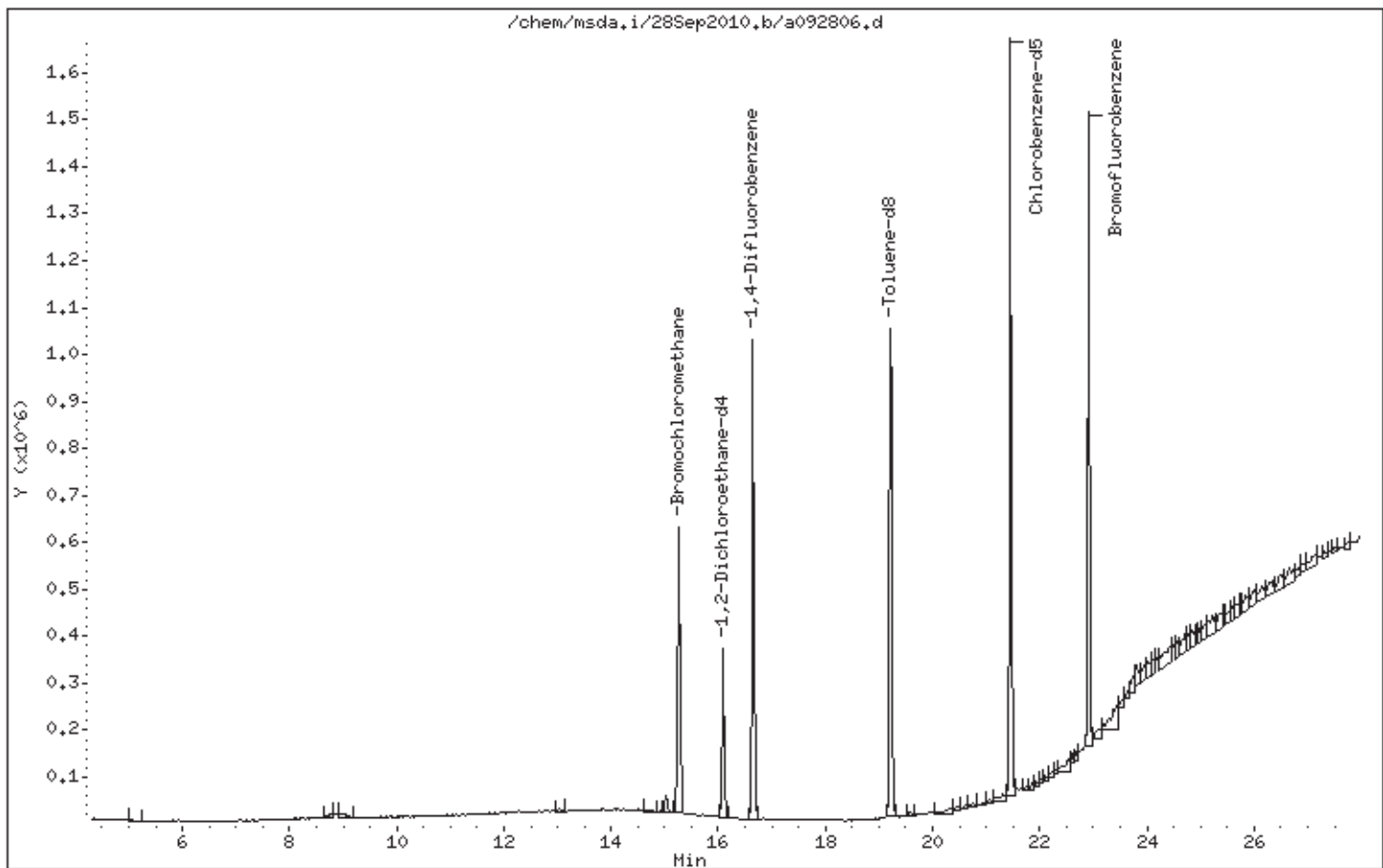
Instrument: msda,i

Sample Info: 250ml #34384;lab blank; lab blank

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: Lab Blank

Lab ID#: 1009208-11D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092806sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/28/10 10:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092806sim.d
Lab Smp Id: lab blank Client Smp ID: lab blank
Inj Date : 28-SEP-2010 22:56
Operator : ea Inst ID: msda.i
Smp Info : 250ml #34384;lab blank; lab blank
Misc Info : humid
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 20:42 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	351317	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	271529				0.00- 30.00	77.29
15.269	15.269	(1.000)	49	397023				0.00- 30.00	113.01

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1463256	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	235300				0.00- 46.17	16.08

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.469	(1.000)	117	1365212	10.0000			80.00- 120.00	100.00
21.470	21.469	(1.000)	82	733725				0.00- 30.00	53.74

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.085	16.084	(1.053)	65	457696	8.80189	8.802		80.00- 120.00	100.00
16.085	16.084	(1.053)	67	247089				0.00- 30.00	53.99

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1310082	10.0446	10.044		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	149230				0.00- 41.52	11.39

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	876059			36.81- 96.81	66.87	

\$ 66 Bromofluorobenzene									
						CAS #: 460-00-4			
22.922	22.922	(1.068)	174	720505	10.4712	10.471	80.00- 120.00	100.00	
22.922	22.922	(1.068)	95	939248			100.82- 160.82	130.36	
22.922	22.922	(1.068)	176	698750			66.99- 126.99	96.98	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 28-SEP-2010
Lab File ID: a092806sim.d	Calibration Time: 19:58
Lab Smp Id: lab blank	Client Smp ID: lab blank
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m	
Misc Info: humid	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	359040	215424	502656	351317	-2.15
40 1,4-Difluorobenze	1478522	887113	2069931	1463256	-1.03
56 Chlorobenzene-d5	1377474	826484	1928464	1365212	-0.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: lab blank Client Smp ID: lab blank
Level: LOW Operator: ea
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	8.802	88.02	70-130
\$ 47 Toluene-d8	10.000	10.044	100.45	70-130
\$ 66 Bromofluorobenzene	10.000	10.471	104.71	70-130

Data File: /chem/msda.i/28Sep2010.b/a092806sim.d

Date: 28-SEP-2010 22:56

Client ID: lab blank

Sample Info: 250ml #34384;lab blank; lab blank

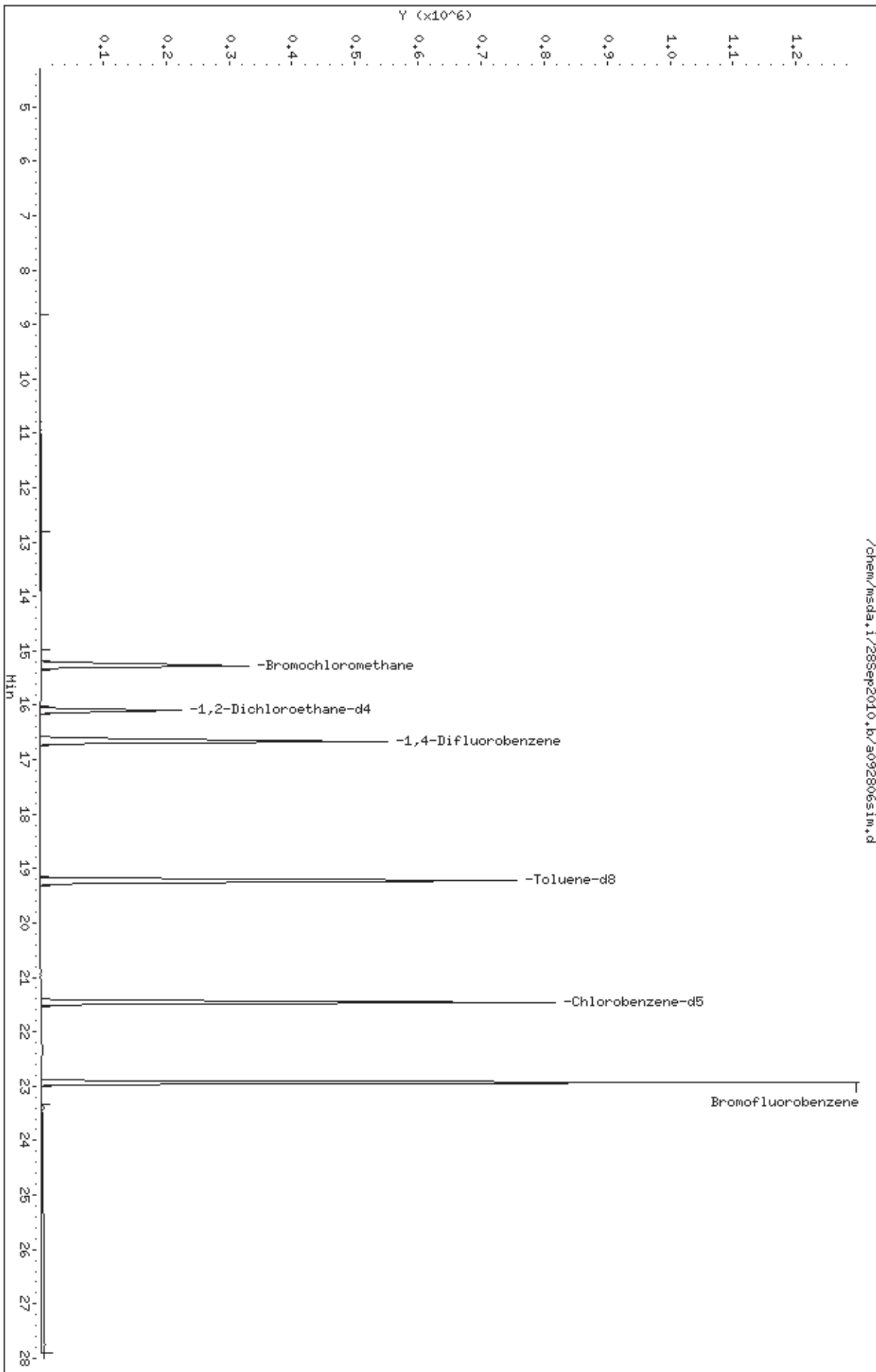
Column phase: RTX-624

Instrument: msda.i

Operator: ea

Column diameter: 0.32

Page 1



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 1009208

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT
	1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	#	
01	ALF-3	87		95		102		0
02	ALF-3	89		100		103		0
03	ALF-2	89		96		102		0
04	ALF-2	89		100		104		0
05	ALF-1	87		96		102		0
06	ALF-1	90		101		104		0
07	ALF-4	86		95		101		0
08	ALF-4	89		99		104		0
09	ALF-5	85		95		100		0
10	ALF-5	87		99		102		0
11	AOS-1	84		94		100		0
12	AOS-1	86		99		104		0
13	AOS-2	85		94		101		0
14	AOS-2	88		100		104		0
15	AOS-3	86		94		101		0
16	AOS-3	88		100		103		0
17	EB-090810	83		93		103		0
18	EB-090810	86		99		104		0
19	TB-090810	84		94		100		0
20	TB-090810	86		99		102		0
21	Lab Blank	83		96		97		0
22	Lab Blank	86		99		102		0
23	Lab Blank	85		95		100		0
24	Lab Blank	88		100		105		0

Surrogate Recovery Limits
 1,2-Dichloroethane-d4 70 - 130
 Toluene-d8 70 - 130
 4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 1009208

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						TOTAL OUT
			#		#		#	
01	CCV	95		97		103		0
02	CCV	96		101		105		0
03	CCV	90		96		102		0
04	CCV	92		102		105		0
05	LCS	90		98		101		0
06	LCSD	92		97		101		0
07	LCS	94		102		105		0
08	LCSD	93		101		106		0
09	LCS	93		96		103		0
10	LCSD	89		96		104		0
11	LCS	94		101		105		0
12	LCSD	93		102		106		0
13								0
14								0
15								0
16								0
17								0
18								0
19								0
20								0
21								0
22								0
23								0
24								0

Surrogate Recovery Limits

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS SIM/Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
 Lab File ID: a092718sim.d
 Instrument ID: msda.i

SDG No: 1009208
 Date Analyzed: 09/27/2010
 Time Analyzed: 07:59 PM

	Chlorobenzene-d5			1,4-Difluorobenzene			Bromochloromethane					
	Area	#	RT	Area	#	RT	Area	#	RT	#		
	24-HOUR STD	1413711		21.47		1535311		16.66		361425		15.27
	UPPER LIMIT	1979195		21.80		2149435		16.99		505995		15.60
	LOWER LIMIT	848227		21.14		921187		16.33		216855		14.94
	CLIENT SAMPLE NO											
02	ALF-3	1391419		21.47		1485250		16.66		359357		15.27
04	ALF-2	1400454		21.47		1487448		16.66		353623		15.27
06	ALF-1	1401357		21.47		1489942		16.66		355428		15.27
08	Lab Blank	1410593		21.47		1533654		16.66		383454		15.27
10	CCV	1413711		21.47		1535311		16.66		361425		15.27
13	LCS	1384602		21.47		1499412		16.66		355635		15.27
14	LCSD	1408249		21.47		1520604		16.66		362521		15.27
15												
16												
17												
18												
19												
20												
21												
22												

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS SIM/Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
 Lab File ID: a092718.d
 Instrument ID: msda.i

SDG No: 1009208
 Date Analyzed: 09/27/2010
 Time Analyzed: 07:59 PM

	Chlorobenzene-d5		RT		1,4-Difluorobenzene		RT		Bromochloromethane		RT	
	Area	#		#	Area	#		#	Area	#		#
	24-HOUR STD	1353012		21.46	1467275		16.65		354424		15.26	
	UPPER LIMIT	1894217		21.79	2054185		16.98		496194		15.59	
	LOWER LIMIT	811807		21.13	880365		16.32		212654		14.93	
	CLIENT SAMPLE NO											
01	ALF-3	1339433		21.45	1422743		16.65		351612		15.25	
03	ALF-2	1346307		21.45	1414945		16.65		346437		15.25	
05	ALF-1	1346821		21.45	1424112		16.65		349643		15.25	
07	Lab Blank	1364595		21.46	1468019		16.65		377458		15.26	
09	CCV	1353012		21.46	1467275		16.65		354424		15.26	
11	LCS	1332522		21.46	1434020		16.65		351328		15.26	
12	LCSD	1354633		21.46	1449638		16.65		354337		15.26	
15												
16												
17												
18												
19												
20												
21												
22												

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS SIM/Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
 Lab File ID: a092802sim.d
 Instrument ID: msda.i

SDG No: 1009208
 Date Analyzed: 09/28/2010
 Time Analyzed: 07:58 PM

	Chlorobenzene-d5		RT		1,4-Difluorobenzene		RT		Bromochloromethane		RT		
	Area	#		#	Area	#		#	Area	#		#	
	24-HOUR STD		1377474		21.47		1478522		16.66		359040		15.27
	UPPER LIMIT		1928464		21.80		2069931		16.99		502656		15.60
	LOWER LIMIT		826484		21.14		887113		16.33		215424		14.94
	CLIENT SAMPLE NO												
02	ALF-4		1326786		21.47		1427736		16.66		348465		15.27
04	ALF-5		1465710		21.47		1589865		16.66		369635		15.27
06	AOS-1		1458417		21.47		1580591		16.66		373771		15.27
08	AOS-2		1475132		21.47		1593481		16.66		370033		15.27
10	AOS-3		1443136		21.47		1549374		16.66		365232		15.27
12	EB-090810		1490482		21.47		1608678		16.66		375872		15.27
14	TB-090810		1459407		21.47		1574601		16.66		368387		15.27
16	Lab Blank		1365212		21.47		1463256		16.66		351317		15.27
18	CCV		1377474		21.47		1478522		16.66		359040		15.27
21	LCS		1398743		21.47		1514375		16.66		352107		15.27
22	LCSD		1389651		21.47		1489977		16.66		343384		15.27

'Area Upper Limit=+40% of internal standard area'
 'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
 RT Lower Limit=-0.33 minutes of internal standard RT

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS SIM/Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
 Lab File ID: a092802.d
 Instrument ID: msda.i

SDG No: 1009208
 Date Analyzed: 09/28/2010
 Time Analyzed: 07:58 PM

	Chlorobenzene-d5		RT		1,4-Difluorobenzene		RT		Bromochloromethane		RT		
	Area	#		#	Area	#		#	Area	#		#	
	24-HOUR STD		1320371		21.46		1417041		16.65		351504		15.26
	UPPER LIMIT		1848519		21.79		1983857		16.98		492106		15.59
	LOWER LIMIT		792223		21.13		850225		16.32		210902		14.93
	CLIENT SAMPLE NO												
01	ALF-4		1274936		21.45		1365362		16.65		343368		15.25
03	ALF-5		1406561		21.45		1513380		16.65		363081		15.25
05	AOS-1		1396129		21.45		1507599		16.65		367384		15.25
07	AOS-2		1416770		21.45		1525403		16.65		364368		15.25
09	AOS-3		1379810		21.45		1478313		16.65		360568		15.25
11	EB-090810		1430169		21.45		1542269		16.65		371723		15.25
13	TB-090810		1394730		21.45		1498534		16.65		358937		15.25
15	Lab Blank		1317201		21.46		1398023		16.65		347456		15.26
17	CCV		1320371		21.46		1417041		16.65		351504		15.26
19	LCS		1333882		21.46		1445906		16.65		346141		15.26
20	LCSD		1329445		21.46		1428184		16.65		342662		15.26

'Area Upper Limit=+40% of internal standard area'
 'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
 RT Lower Limit=-0.33 minutes of internal standard RT

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092720.d & a092719.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/27/10 & 9/27/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
71-55-6	1,1,1-Trichloroethane	ND		ND		0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		0	
79-00-5	1,1,2-Trichloroethane	ND		ND		0	
75-34-3	1,1-Dichloroethane	ND		ND		0	
75-35-4	1,1-Dichloroethene	ND		ND		0	
120-82-1	1,2,4-Trichlorobenzene	86		75		14	
95-63-6	1,2,4-Trimethylbenzene	106		106		0	
106-93-4	1,2-Dibromoethane (EDB)	104		104		0	
95-50-1	1,2-Dichlorobenzene	102		100		2.0	
107-06-2	1,2-Dichloroethane	ND		ND		0	
78-87-5	1,2-Dichloropropane	98		99		1.0	
108-67-8	1,3,5-Trimethylbenzene	105		105		0	
106-99-0	1,3-Butadiene	94		94		0	
541-73-1	1,3-Dichlorobenzene	101		100		1.0	
106-46-7	1,4-Dichlorobenzene	98		98		0	
123-91-1	1,4-Dioxane	100		103		3.0	
540-84-1	2,2,4-Trimethylpentane	88		88		0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	95		97		2.1	
591-78-6	2-Hexanone	102		103		0.98	
67-63-0	2-Propanol	96		83		14	
107-05-1	3-Chloropropene	106		112		5.5	
622-96-8	4-Ethyltoluene	105		107		1.9	
108-10-1	4-Methyl-2-pentanone	91		91		0	
67-64-1	Acetone	101		101		0	
100-44-7	alpha-Chlorotoluene	105		106		0.95	
71-43-2	Benzene	ND		ND		0	
75-27-4	Bromodichloromethane	100		101		1.0	
75-25-2	Bromoform	114		114		0	
74-83-9	Bromomethane	98		103		5.0	
75-15-0	Carbon Disulfide	104		106		1.9	
56-23-5	Carbon Tetrachloride	96		97		1.0	
108-90-7	Chlorobenzene	101		101		0	
75-00-3	Chloroethane	85		98		14	
67-66-3	Chloroform	95		96		1.0	
74-87-3	Chloromethane	88		90		2.2	
156-59-2	cis-1,2-Dichloroethene	ND		ND		0	
10061-01-5	cis-1,3-Dichloropropene	100		101		1.0	
98-82-8	Cumene	102		104		1.9	
110-82-7	Cyclohexane	98		100		2.0	
124-48-1	Dibromochloromethane	110		111		0.90	
64-17-5	Ethanol	83		83		0	
100-41-4	Ethyl Benzene	ND		ND		0	
75-69-4	Freon 11	95		97		2.1	
76-13-1	Freon 113	95		96		1.0	
76-14-2	Freon 114	ND		ND		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092720.d & a092719.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/27/10 & 9/27/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
75-71-8	Freon 12	ND		ND		0	
142-82-5	Heptane	96		96		0	
87-68-3	Hexachlorobutadiene	84		67		22	
110-54-3	Hexane	93		94		1.1	
108-38-3	m,p-Xylene	ND		ND		0	
1634-04-4	Methyl tert-butyl ether	ND		ND		0	
75-09-2	Methylene Chloride	88		89		1.1	
95-47-6	o-Xylene	ND		ND		0	
103-65-1	Propylbenzene	105		107		1.9	
100-42-5	Styrene	99		101		2.0	
127-18-4	Tetrachloroethene	ND		ND		0	
109-99-9	Tetrahydrofuran	94		97		3.1	
108-88-3	Toluene	ND		ND		0	
156-60-5	trans-1,2-Dichloroethene	ND		ND		0	
10061-02-6	trans-1,3-Dichloropropene	100		102		2.0	
79-01-6	Trichloroethene	ND		ND		0	
75-01-4	Vinyl Chloride	ND		ND		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092720sim.d & a092719sim.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/27/10 & 9/27/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
71-55-6	1,1,1-Trichloroethane	100		100		0	
79-34-5	1,1,2,2-Tetrachloroethane	99		99		0	
79-00-5	1,1,2-Trichloroethane	94		94		0	
75-34-3	1,1-Dichloroethane	93		94		1.1	
75-35-4	1,1-Dichloroethene	87		88		1.1	
120-82-1	1,2,4-Trichlorobenzene	ND		ND		0	
95-63-6	1,2,4-Trimethylbenzene	ND		ND		0	
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		0	
95-50-1	1,2-Dichlorobenzene	ND		ND		0	
107-06-2	1,2-Dichloroethane	92		93		1.1	
78-87-5	1,2-Dichloropropane	ND		ND		0	
108-67-8	1,3,5-Trimethylbenzene	ND		ND		0	
106-99-0	1,3-Butadiene	ND		ND		0	
541-73-1	1,3-Dichlorobenzene	ND		ND		0	
106-46-7	1,4-Dichlorobenzene	ND		ND		0	
123-91-1	1,4-Dioxane	ND		ND		0	
540-84-1	2,2,4-Trimethylpentane	ND		ND		0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND		ND		0	
591-78-6	2-Hexanone	ND		ND		0	
67-63-0	2-Propanol	ND		ND		0	
107-05-1	3-Chloropropene	ND		ND		0	
622-96-8	4-Ethyltoluene	ND		ND		0	
108-10-1	4-Methyl-2-pentanone	ND		ND		0	
67-64-1	Acetone	ND		ND		0	
100-44-7	alpha-Chlorotoluene	ND		ND		0	
71-43-2	Benzene	95		95		0	
75-27-4	Bromodichloromethane	ND		ND		0	
75-25-2	Bromoform	ND		ND		0	
74-83-9	Bromomethane	ND		ND		0	
75-15-0	Carbon Disulfide	ND		ND		0	
56-23-5	Carbon Tetrachloride	ND		ND		0	
108-90-7	Chlorobenzene	ND		ND		0	
75-00-3	Chloroethane	ND		ND		0	
67-66-3	Chloroform	ND		ND		0	
74-87-3	Chloromethane	ND		ND		0	
156-59-2	cis-1,2-Dichloroethene	100		101		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		ND		0	
98-82-8	Cumene	ND		ND		0	
110-82-7	Cyclohexane	ND		ND		0	
124-48-1	Dibromochloromethane	ND		ND		0	
64-17-5	Ethanol	ND		ND		0	
100-41-4	Ethyl Benzene	104		106		1.9	
75-69-4	Freon 11	ND		ND		0	
76-13-1	Freon 113	ND		ND		0	
76-14-2	Freon 114	ND		ND		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092720sim.d & a092719sim.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/27/10 & 9/27/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
75-71-8	Freon 12	ND		ND		0	
142-82-5	Heptane	ND		ND		0	
87-68-3	Hexachlorobutadiene	ND		ND		0	
110-54-3	Hexane	ND		ND		0	
108-38-3	m,p-Xylene	104		106		1.9	
1634-04-4	Methyl tert-butyl ether	105		105		0	
75-09-2	Methylene Chloride	ND		ND		0	
95-47-6	o-Xylene	106		108		1.9	
103-65-1	Propylbenzene	ND		ND		0	
100-42-5	Styrene	ND		ND		0	
127-18-4	Tetrachloroethene	89		90		1.1	
109-99-9	Tetrahydrofuran	ND		ND		0	
108-88-3	Toluene	91		92		1.1	
156-60-5	trans-1,2-Dichloroethene	101		102		0.98	
10061-02-6	trans-1,3-Dichloropropene	ND		ND		0	
79-01-6	Trichloroethene	92		93		1.1	
75-01-4	Vinyl Chloride	96		96		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092804.d & a092803.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: Ics & Icsd

Date Analyzed: 9/28/10 & 9/28/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
71-55-6	1,1,1-Trichloroethane	ND		ND		0	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		0	
79-00-5	1,1,2-Trichloroethane	ND		ND		0	
75-34-3	1,1-Dichloroethane	ND		ND		0	
75-35-4	1,1-Dichloroethene	ND		ND		0	
120-82-1	1,2,4-Trichlorobenzene	78		78		0	
95-63-6	1,2,4-Trimethylbenzene	109		106		2.8	
106-93-4	1,2-Dibromoethane (EDB)	104		102		1.9	
95-50-1	1,2-Dichlorobenzene	99		100		1.0	
107-06-2	1,2-Dichloroethane	ND		ND		0	
78-87-5	1,2-Dichloropropane	96		94		2.1	
108-67-8	1,3,5-Trimethylbenzene	107		105		1.9	
106-99-0	1,3-Butadiene	94		92		2.2	
541-73-1	1,3-Dichlorobenzene	99		100		1.0	
106-46-7	1,4-Dichlorobenzene	96		97		1.0	
123-91-1	1,4-Dioxane	100		99		1.0	
540-84-1	2,2,4-Trimethylpentane	87		85		2.3	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	97		94		3.1	
591-78-6	2-Hexanone	100		100		0	
67-63-0	2-Propanol	101		94		7.2	
107-05-1	3-Chloropropene	113		113		0	
622-96-8	4-Ethyltoluene	107		108		0.93	
108-10-1	4-Methyl-2-pentanone	86		84		2.4	
67-64-1	Acetone	101		95		6.1	
100-44-7	alpha-Chlorotoluene	104		106		1.9	
71-43-2	Benzene	ND		ND		0	
75-27-4	Bromodichloromethane	98		98		0	
75-25-2	Bromoform	116		114		1.7	
74-83-9	Bromomethane	105		103		1.9	
75-15-0	Carbon Disulfide	106		102		3.8	
56-23-5	Carbon Tetrachloride	98		97		1.0	
108-90-7	Chlorobenzene	100		100		0	
75-00-3	Chloroethane	98		96		2.1	
67-66-3	Chloroform	96		94		2.1	
74-87-3	Chloromethane	84		83		1.2	
156-59-2	cis-1,2-Dichloroethene	ND		ND		0	
10061-01-5	cis-1,3-Dichloropropene	100		99		1.0	
98-82-8	Cumene	103		104		0.97	
110-82-7	Cyclohexane	99		99		0	
124-48-1	Dibromochloromethane	110		109		0.91	
64-17-5	Ethanol	85		80		6.1	
100-41-4	Ethyl Benzene	ND		ND		0	
75-69-4	Freon 11	95		94		1.0	
76-13-1	Freon 113	93		92		1.1	
76-14-2	Freon 114	ND		ND		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092804.d & a092803.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: Ics & Icsd

Date Analyzed: 9/28/10 & 9/28/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
75-71-8	Freon 12	ND		ND		0	
142-82-5	Heptane	92		90		2.2	
87-68-3	Hexachlorobutadiene	74		72		2.7	
110-54-3	Hexane	94		90		4.3	
108-38-3	m,p-Xylene	ND		ND		0	
1634-04-4	Methyl tert-butyl ether	ND		ND		0	
75-09-2	Methylene Chloride	88		86		2.3	
95-47-6	o-Xylene	ND		ND		0	
103-65-1	Propylbenzene	105		106		0.95	
100-42-5	Styrene	100		101		1.0	
127-18-4	Tetrachloroethene	ND		ND		0	
109-99-9	Tetrahydrofuran	93		89		4.4	
108-88-3	Toluene	ND		ND		0	
156-60-5	trans-1,2-Dichloroethene	ND		ND		0	
10061-02-6	trans-1,3-Dichloropropene	100		99		1.0	
79-01-6	Trichloroethene	ND		ND		0	
75-01-4	Vinyl Chloride	ND		ND		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092804sim.d & a092803sim.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: Ics & Icsd

Date Analyzed: 9/28/10 & 9/28/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
71-55-6	1,1,1-Trichloroethane	100		101		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	97		97		0	
79-00-5	1,1,2-Trichloroethane	92		92		0	
75-34-3	1,1-Dichloroethane	92		91		1.1	
75-35-4	1,1-Dichloroethene	88		86		2.3	
120-82-1	1,2,4-Trichlorobenzene	ND		ND		0	
95-63-6	1,2,4-Trimethylbenzene	ND		ND		0	
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		0	
95-50-1	1,2-Dichlorobenzene	ND		ND		0	
107-06-2	1,2-Dichloroethane	89		88		1.1	
78-87-5	1,2-Dichloropropane	ND		ND		0	
108-67-8	1,3,5-Trimethylbenzene	ND		ND		0	
106-99-0	1,3-Butadiene	ND		ND		0	
541-73-1	1,3-Dichlorobenzene	ND		ND		0	
106-46-7	1,4-Dichlorobenzene	ND		ND		0	
123-91-1	1,4-Dioxane	ND		ND		0	
540-84-1	2,2,4-Trimethylpentane	ND		ND		0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND		ND		0	
591-78-6	2-Hexanone	ND		ND		0	
67-63-0	2-Propanol	ND		ND		0	
107-05-1	3-Chloropropene	ND		ND		0	
622-96-8	4-Ethyltoluene	ND		ND		0	
108-10-1	4-Methyl-2-pentanone	ND		ND		0	
67-64-1	Acetone	ND		ND		0	
100-44-7	alpha-Chlorotoluene	ND		ND		0	
71-43-2	Benzene	92		91		1.1	
75-27-4	Bromodichloromethane	ND		ND		0	
75-25-2	Bromoform	ND		ND		0	
74-83-9	Bromomethane	ND		ND		0	
75-15-0	Carbon Disulfide	ND		ND		0	
56-23-5	Carbon Tetrachloride	ND		ND		0	
108-90-7	Chlorobenzene	ND		ND		0	
75-00-3	Chloroethane	ND		ND		0	
67-66-3	Chloroform	ND		ND		0	
74-87-3	Chloromethane	ND		ND		0	
156-59-2	cis-1,2-Dichloroethene	100		100		0	
10061-01-5	cis-1,3-Dichloropropene	ND		ND		0	
98-82-8	Cumene	ND		ND		0	
110-82-7	Cyclohexane	ND		ND		0	
124-48-1	Dibromochloromethane	ND		ND		0	
64-17-5	Ethanol	ND		ND		0	
100-41-4	Ethyl Benzene	105		106		0.95	
75-69-4	Freon 11	ND		ND		0	
76-13-1	Freon 113	ND		ND		0	
76-14-2	Freon 114	ND		ND		0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a092804sim.d & a092803sim.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: Ics & Icsd

Date Analyzed: 9/28/10 & 9/28/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
75-71-8	Freon 12	ND		ND		0	
142-82-5	Heptane	ND		ND		0	
87-68-3	Hexachlorobutadiene	ND		ND		0	
110-54-3	Hexane	ND		ND		0	
108-38-3	m,p-Xylene	106		107		0.94	
1634-04-4	Methyl tert-butyl ether	107		106		0.94	
75-09-2	Methylene Chloride	ND		ND		0	
95-47-6	o-Xylene	109		109		0	
103-65-1	Propylbenzene	ND		ND		0	
100-42-5	Styrene	ND		ND		0	
127-18-4	Tetrachloroethene	86		86		0	
109-99-9	Tetrahydrofuran	ND		ND		0	
108-88-3	Toluene	89		90		1.1	
156-60-5	trans-1,2-Dichloroethene	101		100		1.0	
10061-02-6	trans-1,3-Dichloropropene	ND		ND		0	
79-01-6	Trichloroethene	90		90		0	
75-01-4	Vinyl Chloride	94		95		1.0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 12:55
 End Cal Date : 20-SEP-2010 20:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/20Sep2010.b/a1010915a.m
 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Calibration File Names:

Level 4: /chem/msda.i/15Sep2010.b/a091509.d
 Level 5: /chem/msda.i/15Sep2010.b/a091510.d
 Level 6: /chem/msda.i/20Sep2010.b/a092013.d
 Level 7: /chem/msda.i/20Sep2010.b/a092015.d
 Level 8: /chem/msda.i/20Sep2010.b/a092012.d
 Level 9: /chem/msda.i/15Sep2010.b/a091514.d
 Level 10: /chem/msda.i/15Sep2010.b/a091515.d
 Level 11: /chem/msda.i/15Sep2010.b/a091516.d
 Level 12: /chem/msda.i/20Sep2010.b/a092014.d
 Level 13: /chem/msda.i/20Sep2010.b/a092007.d

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
1 Freon134a	+++++	+++++	0.91645	0.78123	0.74056	+++++		
	+++++	+++++	+++++	+++++			0.81275	11.330
2 Propylene	+++++	+++++	0.99282	0.97002	1.04468	0.99073		
	0.94031	0.92312	+++++	+++++			0.97695	4.419
3 Freon 152A	+++++	+++++	0.63675	0.50488	0.47145	+++++		
	+++++	+++++	+++++	+++++			0.53769	16.255
4 Dichlorodifluoromethane/Fr12	3.96239	4.84053	3.59846	3.56058	4.31647	4.08982		
	3.89931	3.86855	+++++	+++++			4.01701	10.288
5 Freon 22	+++++	+++++	1.40376	1.20331	1.17674	+++++		
	+++++	+++++	+++++	+++++			1.26127	9.840
6 Freon 114	2.90331	3.30546	2.23995	2.35394	2.76837	2.64055		
	2.53140	2.52780	+++++	+++++			2.65885	12.651

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 12:55
 End Cal Date : 20-SEP-2010 20:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/20Sep2010.b/a1010915a.m
 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Compound	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	RRF	% RSD
7 Chloromethane	1.12544	1.78543 1.17238	1.12432 +++++	1.07809 +++++	1.28645	1.20109	1.25331	19.468
8 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Butane	0.28997	0.28774 +++++	0.29184 +++++	0.26708 +++++	0.32224	0.29613	0.29250	6.065
10 Vinyl Chloride	1.41766	1.83245 1.39143	1.32369 +++++	1.26297 +++++	1.56863	1.46589	1.46610	12.887
11 1,3-Butadiene	0.98902	1.27695 0.97560	0.92367 +++++	0.87360 +++++	1.07439	0.99270	1.01513	12.920
12 Bromomethane	0.83706	0.93867 0.87783	0.62400 +++++	0.63291 +++++	0.82300	0.80338	0.79098	15.095
13 Chloroethane	0.68658	0.73251 0.71665	0.49263 +++++	0.59288 +++++	0.69557	0.69426	0.65872	13.017
14 Isopentane	1.05544	1.07244 +++++	1.04007 +++++	0.98115 +++++	1.25260	1.13069	1.08873	8.609
15 Vinyl Bromide	+++++	+++++	1.22032 1.10097	1.12403 1.12453	1.06288	+++++	1.12655	5.159
16 Trichlorofluoromethane/Fr11	3.65910	3.90090 4.60545 3.60759	3.24407 +++++	3.23014 +++++	3.97531	3.66536	3.73599	11.823

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 12:55
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/20Sep2010.b/a1010915a.m
 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
17 1-Pentene	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++
18 Pentane	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++
19 Diethyl Ether	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++
20 Ethanol	++++	++++	0.48171	0.42295	0.52295	0.49971		
	0.47208	0.28880	++++	++++			0.44804	18.934
21 Acrolein	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++
22 Freon 113	2.34256	3.06944	2.06941	2.03852	2.65693	2.41931		
	2.38293	1.79642	++++	++++			2.34694	16.890
23 1,1-Dichloroethene	++++	1.15142	0.76614	0.77087	1.00322	0.91444		
	0.89341	0.59828	++++	++++			0.87111	20.637
24 Acetone	++++	++++	0.64589	0.63830	0.69466	0.66335		
	0.62537	0.29778	++++	++++			0.59423	24.770
25 Iodomethane	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++
26 Carbon Disulfide	++++	++++	3.57789	3.71287	4.35938	4.11281		
	3.91260	3.87113	++++	++++			3.92445	7.139

Air Toxics Ltd.

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 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
27 2-Propanol	+++++	+++++	1.87507	1.83926	2.80307	2.18927		
	2.65052	2.10405	+++++	+++++			2.24354	17.833
28 3-Chloroprene	+++++	+++++	0.45212	0.37402	0.61565	0.47128		
	0.51152	0.54057	+++++	+++++			0.49420	16.671
29 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
30 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
31 Acetonitrile	+++++	+++++	0.99935	0.87346	0.83309	+++++		
	+++++	+++++	0.84130	0.85517			0.88047	7.745
32 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
33 Methylene Chloride	+++++	1.69986	1.23925	1.19492	1.36348	1.30827		
	1.22213	1.18983	+++++	+++++			1.31682	13.688
34 tert-butyl alcohol	+++++	+++++	2.32397	2.21166	2.90800	2.69057		
	2.76262	2.73333	+++++	+++++			2.60502	10.501
35 MTBE	+++++	5.41954	3.62534	3.57968	4.73884	4.34723		
	4.36761	4.36144	+++++	+++++			4.34852	14.587
36 trans-1,2-Dichloroethene	+++++	1.26896	0.84464	0.85202	1.10848	1.01098		
	0.99972	0.98534	+++++	+++++			1.01002	14.561

Air Toxics Ltd.

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 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
37 Acrylonitrile	+++++	+++++	1.17900	1.07517	1.02811	+++++		
	+++++	+++++	1.02763	1.05644			1.07327	5.816
38 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
39 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
40 Hexane	+++++	3.18510	2.08940	2.06253	2.63408	2.40510		
	2.32475	2.29523	+++++	+++++			2.42803	15.886
41 Isopropyl ether	+++++	+++++	4.26344	4.20668	5.43493	4.96534		
	4.83928	4.76342	+++++	+++++			4.74552	9.682
42 1,1-Dichloroethane	+++++	3.71403	2.46302	2.37245	3.04894	2.79745		
	2.71350	2.61723	+++++	+++++			2.81809	16.082
43 Chloroprene	+++++	+++++	1.89725	1.73300	1.69609	+++++		
	+++++	+++++	1.71433	1.73839			1.75581	4.602
44 Vinyl Acetate	+++++	+++++	0.32347	0.32802	0.43721	0.40338		
	0.41031	0.42884	+++++	+++++			0.38854	12.912
45 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
46 Ethyl-tert-butyl ether	+++++	+++++	3.95992	3.96050	5.15723	4.75400		
	4.68524	4.68322	+++++	+++++			4.53335	10.535

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Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
47 cis-1,2-Dichloroethene	+++++	1.31692	0.86012	0.85904	1.11982	1.01963		
	1.00283	0.98778	+++++	+++++			1.02373	15.487
48 2-Butanone	+++++	1.04728	0.65558	0.68918	0.89280	0.81429		
	0.81889	0.82073	+++++	+++++			0.81982	15.837
49 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
50 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
51 Tetrahydrofuran	+++++	+++++	1.46071	1.42655	1.78400	1.64192		
	1.58563	1.52348	+++++	+++++			1.57038	8.346
53 Chloroform	+++++	4.10967	2.83431	2.67444	3.45710	3.16688		
	3.09587	2.99104	+++++	+++++			3.18990	14.916
54 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
55 Cyclohexane	+++++	2.91922	1.95201	1.90879	2.48459	2.30522		
	2.27138	2.27738	+++++	+++++			2.30265	14.759
56 1,1,1-Trichloroethane	3.15844	3.98743	2.70262	2.73093	3.66856	3.29983		
	3.28930	3.22464	+++++	+++++			3.25772	13.232
57 Carbon Tetrachloride	4.40062	3.78197	2.69279	2.60488	3.49010	3.19555		
	3.20882	3.18000	+++++	+++++			3.31934	17.501

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 Curve Type : Average

Compound	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	RRF	% RSD		
58 1,1-Dichloropropene	+++++	+++++	0.95441	0.80153	0.76443	+++++	0.84012	11.986		
59 2,2,4-Trimethylpentane	+++++	4.42562	2.14112	2.09991	2.64128	2.44846	2.63368	30.791 <-		
60 Benzene	+++++	1.69012	1.10632	1.07406	1.31994	1.22469	1.24712	16.960		
62 tert-amyl methyl ether	+++++	0.26531	0.26685	0.22066	0.22870	0.28763	0.27279	0.25699	10.258	
63 1,2-Dichloroethane	+++++	0.50325	0.47912	0.48480	0.46649	0.57626	0.52489	0.53107	14.350	
64 Heptane	+++++	0.33523	0.32727	0.44034	0.30901	0.30951	0.37241	0.35264	0.34949	13.176
65 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
67 Trichloroethene	0.54872	0.67704	0.45074	0.46489	0.58221	0.54188	0.53768	13.188		
68 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
69 Methylcyclohexane	0.72291	0.70738	0.62176	0.65646	0.79945	0.75292	0.71015	9.054		

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 Curve Type : Average

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
70 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
71 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
72 1,2-Dichloropropane	+++++	0.55478	0.37877	0.38846	0.46336	0.42687		
	0.41505	0.40482	+++++	+++++			0.43316	13.926
73 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
74 1,4-Dioxane	+++++	0.34195	0.25060	0.26213	0.29892	0.28271		
	0.27573	0.26780	+++++	+++++			0.28283	10.702
75 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
76 Bromodichloromethane	0.80231	0.88463	0.63932	0.66703	0.86781	0.82018		
	0.81543	0.80117	+++++	+++++			0.78723	11.220
77 cis-1,3-Dichloropropene	+++++	0.74676	0.51397	0.53514	0.69552	0.66189		
	0.65423	0.64553	+++++	+++++			0.63615	13.147
78 4-Methyl-2-pentanone	+++++	0.88887	0.67638	0.72963	0.90339	0.87251		
	0.84830	0.83096	+++++	+++++			0.82143	10.443
79 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
81 Toluene	+++++	1.68901	1.19077	1.22954	1.49902	1.41819		
	1.36719	1.34230	+++++	+++++			1.39086	12.113
82 trans-1,3-Dichloropropene	+++++	0.79276	0.55793	0.59676	0.79483	0.74547		
	0.73980	0.71932	+++++	+++++			0.70669	13.192
83 1,1,2-Trichloroethane	0.53576	0.57643	0.44078	0.47615	0.58683	0.54031		
	0.51664	0.50227	+++++	+++++			0.52189	9.389
84 Tetrachloroethene	0.75004	0.85315	0.61649	0.63050	0.78167	0.72951		
	0.69386	0.67156	+++++	+++++			0.71585	11.093
85 2-Hexanone	+++++	+++++	0.38395	0.42742	0.53159	0.51840		
	0.50105	0.50149	+++++	+++++			0.47732	12.212
86 Dibromochloromethane	0.61932	0.82798	0.59615	0.68108	0.91764	0.88606		
	0.89029	0.89519	+++++	+++++			0.78921	17.044
87 1,2-Dibromoethane	0.77418	0.96400	0.66216	0.71749	0.90273	0.82509		
	0.80156	0.79181	+++++	+++++			0.80488	11.920
89 Chlorobenzene	+++++	1.47198	1.03470	1.04539	1.28828	1.20371		
	1.15281	1.12614	+++++	+++++			1.18900	12.840
90 Nonane	+++++	+++++	0.31900	0.33096	+++++	+++++		
	+++++	+++++	0.29862	+++++			0.31619	5.172
91 Ethyl Benzene	+++++	0.66099	0.48277	0.50380	0.62391	0.58694		
	0.57496	0.56240	+++++	+++++			0.57082	10.973

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	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
92 1,1,1,2-Tetrachloroethane	+++++	+++++	0.62564	0.55672	0.54847	+++++		
	+++++	+++++	+++++	+++++			0.57694	7.345
93 m,p-Xylene	+++++	0.67185	0.50638	0.51875	0.64792	0.61859		
	0.61614	0.62263	+++++	+++++			0.60032	10.523
94 o-Xylene	+++++	0.65062	0.46720	0.49253	0.60598	0.58984		
	0.59562	0.60449	+++++	+++++			0.57233	11.626
95 Styrene	+++++	0.94558	0.72051	0.75516	0.96185	0.95604		
	0.98597	1.00360	+++++	+++++			0.90410	12.791
96 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
97 Bromoform	0.59730	0.67847	0.52252	0.59381	0.81266	0.80957		
	0.82557	0.83371	+++++	+++++			0.70920	17.792
98 Cumene	+++++	1.82339	1.35938	1.43398	1.83775	1.79155		
	1.79475	1.79556	+++++	+++++			1.69091	11.997
99 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
101 cis-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
102 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
103 1,1,2,2-Tetrachloroethane	1.19873 1.12264	1.20331 1.09611	0.91816 +++++	0.95630 +++++	1.20447	1.13417	1.10424	10.073
104 Propylbenzene	+++++ 1.76755	1.61599 1.75823	1.26198 +++++	1.33819 +++++	1.69609	1.71075	1.59268	13.002
105 1,2,3-Trichloropropane	+++++ +++++	+++++ +++++	0.33139 +++++	0.29099 +++++	0.28434	+++++	0.30224	8.424
106 trans-1,4-dichloro-2-butene	+++++ +++++	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++
107 4-Ethyltoluene	+++++ 1.35041	1.31704 1.37912	0.91771 +++++	1.00544 +++++	1.28633	1.30326	1.22276	14.948
108 2-Chlorotoluene	+++++ +++++	+++++ +++++	0.35119 +++++	0.32514 +++++	0.32403	+++++	0.33345	4.610
109 1,3,5-Trimethylbenzene	+++++ 1.03644	1.05487 1.08157	0.74407 +++++	0.81085 +++++	1.00240	0.99832	0.96122	13.548
110 4-Chlorotoluene	+++++ +++++	+++++ +++++	0.32723 +++++	0.29039 +++++	0.28938	+++++	0.30233	7.134
111 tert-Butylbenzene	+++++ +++++	+++++ +++++	0.79176 +++++	0.77893 +++++	0.78522	+++++	0.78530	0.817
112 1,2,4-Trimethylbenzene	+++++ 0.75192	0.80031 0.77911	0.50474 +++++	0.54436 +++++	0.70105	0.72079	0.68604	16.877

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 12:55
 End Cal Date : 20-SEP-2010 20:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/20Sep2010.b/a1010915a.m
 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	---	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	RRF	
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
113 sec-Butylbenzene	+++++	+++++	1.11864	1.06719	1.08086	+++++		
	+++++	+++++	+++++	+++++			1.08890	2.447
114 p-Cymene	+++++	+++++	0.74358	0.70107	0.70716	+++++		
	+++++	+++++	+++++	+++++			0.71727	3.205
115 1,3-Dichlorobenzene	1.12581	0.95651	0.63606	0.66417	0.81602	0.81468		
	0.85575	0.85144	+++++	+++++			0.84006	18.516
116 1,2,3-trimethylbenzene	+++++	+++++	0.26666	0.23766	0.24520	+++++		
	+++++	+++++	+++++	+++++			0.24984	6.024
117 1,4-Dichlorobenzene	1.15383	0.88113	0.56341	0.59336	0.72017	0.72467		
	0.76513	0.78184	+++++	+++++			0.77294	23.865
118 alpha-chlorotoluene	1.18447	1.07791	0.85569	0.95501	1.25810	1.26747		
	1.38383	1.37122	+++++	+++++			1.16921	16.393
119 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
120 Butylbenzene	+++++	+++++	0.15886	0.14692	0.14036	+++++		
	+++++	+++++	+++++	+++++			0.14871	6.305
121 1,2-Dichlorobenzene	0.85161	0.84478	0.55668	0.57821	0.70104	0.68971		
	0.73776	0.74174	+++++	+++++			0.71269	15.122
122 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 12:55
 End Cal Date : 20-SEP-2010 20:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/20Sep2010.b/a1010915a.m
 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

Compound	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	RRF	% RSD
123 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1,2-dibromo-3-chloropropane	+++++	+++++	0.38753	0.40756	0.39848	+++++	0.39785	2.521
125 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 1,2,4-Trichlorobenzene	+++++	+++++	0.17302	0.20972	0.15688	0.23044	0.22554	25.621
127 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Hexachlorobutadiene	+++++	+++++	0.28098	0.34755	0.24306	0.35484	0.34959	22.608
129 Naphthalene	+++++	+++++	0.39888	0.36887	0.26428	0.38559	0.39109	19.012
\$ 61 1,2-Dichloroethane-d4	1.38443	1.50521	1.39397	1.38153	1.45703	1.43805	1.45351	4.549
\$ 80 Toluene-d8	1.01559	1.00065	1.00167	1.02557	1.01844	1.02440	1.01850	1.177
\$ 100 Bromofluorobenzene	0.48500	0.48981	0.49717	0.50719	0.51204	0.51813	0.51095	4.028

Calibration History

Method : /chem/msda.i/20Sep2010.b/a1010915a.m
 Start Cal Date: 15-SEP-2010 12:55
 End Cal Date : 20-SEP-2010 20:09

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 0.05000		
15-SEP-2010 12:55	Level05	/chem/msda.i/15Sep2010.b/a091509.d
Cal Level: 5 , Cal Amount: 0.10000		
15-SEP-2010 13:58	Level#1	/chem/msda.i/15Sep2010.b/a091510.d
Cal Level: 6 , Cal Amount: 0.50000		
20-SEP-2010 18:41	Nonane	/chem/msda.i/20Sep2010.b/a092013.d
20-SEP-2010 16:25	spAT1	/chem/msda.i/20Sep2010.b/a092010.d
20-SEP-2010 13:01	spAT4	/chem/msda.i/20Sep2010.b/a092005.d
15-SEP-2010 14:42	HILOcrvENSR	/chem/msda.i/15Sep2010.b/a091511.d
Cal Level: 7 , Cal Amount: 2.00000		
20-SEP-2010 20:09	Nonane	/chem/msda.i/20Sep2010.b/a092015.d
20-SEP-2010 17:00	spAT1	/chem/msda.i/20Sep2010.b/a092011.d
20-SEP-2010 14:46	spAT4	/chem/msda.i/20Sep2010.b/a092008.d
15-SEP-2010 15:30	HILOcrvENSR	/chem/msda.i/15Sep2010.b/a091512.d
Cal Level: 8 , Cal Amount: 5.00000		
20-SEP-2010 17:52	spAT1	/chem/msda.i/20Sep2010.b/a092012.d
20-SEP-2010 15:43	spAT4	/chem/msda.i/20Sep2010.b/a092009.d
15-SEP-2010 16:06	HILOcrvENSR	/chem/msda.i/15Sep2010.b/a091513.d
Cal Level: 9 , Cal Amount: 10.00000		
15-SEP-2010 16:48	HILOcrvENSR	/chem/msda.i/15Sep2010.b/a091514.d
Cal Level: 10 , Cal Amount: 20.00000		
15-SEP-2010 17:24	HILOcrvENSR	/chem/msda.i/15Sep2010.b/a091515.d


```
+-----+-----+-----+
+-----+-----+-----+
| Cal Level: 11, Cal Amount: 40.00000 |
+=====+
|15-SEP-2010 18:18 |HILOcrvENSR      |/chem/msda.i/15Sep2010.b/a091516.d |
+-----+-----+-----+
```

```
+-----+-----+-----+
| Cal Level: 12, Cal Amount: 1.00000 |
+=====+
|20-SEP-2010 19:16 |Nonane          |/chem/msda.i/20Sep2010.b/a092014.d |
|20-SEP-2010 13:36 |spAT4           |/chem/msda.i/20Sep2010.b/a092006.d |
+-----+-----+-----+
```

```
+-----+-----+-----+
| Cal Level: 13, Cal Amount: 8.00000 |
+=====+
|20-SEP-2010 14:11 |spAT4           |/chem/msda.i/20Sep2010.b/a092007.d |
+-----+-----+-----+
```

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

```
+-----+-----+-----+
| Ccal Level: 9 , Ccal Amount: 10.000 |
+=====+
|20-SEP-2010 10:29 |AT09            |/chem/msda.i/20Sep2010.b/a092002.d |
+-----+-----+-----+
```

Initial Calibration Narrative

An initial calibration curve was analyzed on 09/15/2010 on MSD-A.

The LCS for the initial calibration was analyzed on 09/16/2010 within the 24hr clock.

The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

- A five point initial calibration for AT4 specials were analyzed on MSD-A on 09/20/2010 at 0.5, 1.0, 1.5, 2.0 and 5.0 ppbv.
- A three point initial calibration for AT1 were analyzed on MSD A on 09/20/2010 at 0.5, 2.0 & 5.0ppbv.
- A three point initial calibration for nonane special was analyzed on MSD-a on 09/20/2010 at 0.5, 1.0 & 2.0ppbv.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 12:55
 End Cal Date : 20-SEP-2010 20:09
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/20Sep2010.b/a1010915a.m
 Cal Date : 21-Sep-2010 17:49 croush
 Curve Type : Average

EA 9/21/10

1 out in IGL

72, 2, 4 TMP @ 31%

0 out in IGV

↳ A091519; 10ppbv (0ppbv); some

Good for AETE

Calibration File Names:

- Level 4: /chem/msda.i/15Sep2010.b/a091509.d
- Level 5: /chem/msda.i/15Sep2010.b/a091510.d
- Level 6: /chem/msda.i/20Sep2010.b/a092013.d
- Level 7: /chem/msda.i/20Sep2010.b/a092015.d
- Level 8: /chem/msda.i/20Sep2010.b/a092012.d
- Level 9: /chem/msda.i/15Sep2010.b/a091514.d
- Level 10: /chem/msda.i/15Sep2010.b/a091515.d
- Level 11: /chem/msda.i/15Sep2010.b/a091516.d
- Level 12: /chem/msda.i/20Sep2010.b/a092014.d
- Level 13: /chem/msda.i/20Sep2010.b/a092007.d

See calibration history for all calibration files.

Compound	0.05000	0.10000	0.50000	2.000	5.000	10.000	RRF	% RSD
	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9		
	20.000	40.000	1.000	8.000				
	Level 10	Level 11	Level 12	Level 13				
1 Freon134a	++++	++++	0.91645	0.78123	0.74056	++++		
	++++	++++	++++	++++			0.81275	11.330
2 Propylene	++++	++++	0.99282	0.97002	1.04468	0.99073		
	0.94031	0.92312	++++	++++			0.97695	4.419
3 Freon 152A	++++	++++	0.63675	0.50488	0.47145	++++		
	++++	++++	++++	++++			0.53769	16.255
4 Dichlorodifluoromethane/Fr12	3.96239	4.84053	3.59846	3.56058	4.31647	4.08982		
	3.89931	3.86855	++++	++++			4.01701	10.288
5 Freon 22	++++	++++	1.40376	1.20331	1.17674	++++		
	++++	++++	++++	++++			1.26127	9.840
6 Freon 114	2.90331	3.30546	2.23995	2.35394	2.76837	2.64055		
	2.53140	2.52780	++++	++++			2.65885	12.651

* 5pt calib for AT4sp - 0.5, 1.0, 1.5, 2.0 and 5.0 ppbv
 ✓ 3pt calib for AT1sp - 0.5, 2.0 and 5.0 ppbv
 • 3pt calib for Nonane - 0.5, 1.0, and 2.0 ppbv

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	19.43
75	30.0 - 60.0% of mass 95	52.33
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	6.82
173	Less than 2.0% of mass 174	(0.42) ¹
174	50.0 - 100% of mass 95	71.14
175	5.0 - 9.0% of mass 174	(7.18) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.58) ¹
177	5.0 - 9.0% of mass 176	(6.66) ²

¹ - value in parenthesis is % mass 174
² - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: $\frac{35.68\%}{96.58\%} \times 100\% = 96.58\%$

BFB Injection Date: 09/15/10
 BFB Injection Time: 0951
 BFB File ID: A 091505
 Tekmar Purge Flow: Z CR
 Vacuum: Z 09/16/10

IS/S Std.#:	1968-210	Exp. Date:	11/16/10
BCM	415545 (LL)		434303 (Sim)
1,4-DFB	1700376		1769518
CB-d5	1561316		11020049

Verified CCV IS vs ICAL mid-point (-40%D) CR initials

NOAH Cart #: NA File #: NA

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{is}}} \times \frac{\text{Conc}_{\text{is}}}{\text{RRF}} = \frac{(1741868)}{(1700316)} \times \frac{(10.00)}{(1.01850)} = 10.058 \checkmark$$

Reported Result 10.058 -

Method: A10-0915A/A10-0915A

File ID:	A091514a
Compound:	Toluene-d8
Initials:	CR (LL)

File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	A091505	1476-1754	50 nA	2.0 ml	1.0	OB	9-15-10	0951	OB	
2	06	1936-334	0.103 ppbv	15 ml				1013		
3	07		0.01 ppbv	50 ml				1053		
4	08		0.12 ppbv	100 ml				1205		
5	09		0.05 ppbv	250 ml				1255		
6	10	1936-333	0.1 ppbv	12.5 ml				1358		
7	11		0.5 ppbv	62.5 ml				1442		
8	12		2.0 ppbv	250 ml				1530		

Signature: *[Handwritten Signature]*

Date: 09/16/10

MSD-A

9	✓	AD9/15/13	ICAL Level 8	1736 327	5.0ppbv	25ml	1.0	OB	9-15-10	1606	DB
10	✓	14	↓	↓	10ppbv	50ml	↓	↓	↓	1648	↓
11	✓	15	↓	↓	20ppbv	100ml	↓	↓	↓	1724	↓
12	✓	16	↓	↓	40ppbv	200ml	↓	RA	↓	1818	↓
13	X	17	System Blank	34384	Humid	250ml	↓	RA	↓	2048	↓
14	X	18	↓	↓	↓	↓	↓	RA	↓	2245	↓
15	✓	19	LCS (200ppbv)	1968 237	10ppbv	50ml	1.0	DB	9-16-10	0821	↓
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											CR 07/16/10

Comments:

Catalano
Signature

09/16/10
Date

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	18.52
75	30.0 - 60.0% of mass 95	50.12
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.92
173	Less than 2.0% of mass 174	(0.33) ¹
174	50.0 - 100% of mass 95	52.71
175	5.0 - 9.0% of mass 174	(7.24) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(97.12) ¹
177	5.0 - 9.0% of mass 176	(6.86) ²

¹ - value in parenthesis is % mass 174

Verify 176/174 m/z Ratio: $\frac{49104732}{5049620070} = 97.1270$

BFB Injection Date: 9-20-10
 BFB Injection Time: 1008
 BFB File ID: A092001
 Tekmar Purge Flow: 6.61 x 10⁻⁶
 Vacuum:

IS/S Std.#:	1268-210	Exp. Date:	11-16-10
BCM W	471799	Sim:	490166
1,4-DFB	1248064		2034619
CB-d5	1785561		1860180

Verified CCV IS vs ICAL mid-point (-40%D) *ES*

NOAH Cart #: File #:

File ID:	A092002
Compound:	toluene-d8
Initials:	<i>ES</i>

pbp of compound = $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \text{Conc}_{\text{std}} = \frac{1950618}{10.0} \times (1.01850) = 1948064$
 Reported Result 9.831

Method: A1060915A

File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	A092001	BFB Turb Chk	50mg	2ul	1.00	<i>ES</i>	9-20-10	1008	<i>ES</i>	
2	02	CCW # 968-327	10ppm	50ul	1.00	<i>ES</i>		1029	<i>ES</i>	
3	03	CCS # 1468-341						1118	<i>ES</i>	
4	04	CCD #1976-341						1208	<i>ES</i>	
5	05	ICAL level 6 # 1926-323	50ppm → 0.5ppm	25ul				1301	<i>ES</i>	AT-4 Specials
6	06	ICAL level 12	10ppm	50ul				1336	<i>ES</i>	
7	07	ICAL level 13	15ppm	75ul				1411	<i>ES</i>	
8	08	ICAL level 14	2.0ppm	100ul				1446	<i>ES</i>	

Signature: *ES* Date: 9/20/10

Air Toxics Ltd.
 Modified EPA Methods TO-14A/TO-15 Low Level
 Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091519.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 16-SEP-2010 08:21
Operator : db Inst ID: msda.i
Smp Info : 50ml #1968-237
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 18:12 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 18:18 Cal File: a091516.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52	Bromochloromethane						CAS #: 74-97-5		
15.255	15.255	(1.000)	130	431428	10.0000			80.00- 120.00	100.00
15.255	15.255	(1.000)	128	333585				0.00- 30.00	77.32
15.255	15.255	(1.000)	49	621139				0.00- 30.00	143.97

* 66	1,4-Difluorobenzene						CAS #: 540-36-3		
16.647	16.647	(1.000)	114	1743509	10.0000			80.00- 120.00	100.00
16.647	16.647	(1.000)	88	282425				0.00- 30.00	16.20

* 88	Chlorobenzene-d5						CAS #: 3114-55-4		
21.456	21.456	(1.000)	117	1619149	10.0000			80.00- 120.00	100.00
21.456	21.456	(1.000)	82	925099				0.00- 30.00	57.13

\$ 61	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.098	16.098	(1.055)	65	610447	9.73470	9.735		80.00- 120.00	100.00
16.098	16.098	(1.055)	67	435655				0.00- 30.00	71.37

\$ 80	Toluene-d8						CAS #: 2037-26-5		
19.234	19.234	(1.155)	98	1771553	9.97628	9.976		80.00- 120.00	100.00
19.234	19.234	(1.155)	70	201408				0.00- 30.00	11.37

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1189722			36.45-	96.45	67.16

\$ 100 Bromofluorobenzene									
						CAS #: 460-00-4			
22.934	22.934	(1.069)	174	844103	10.2031	10.203	80.00-	120.00	100.00
22.934	22.934	(1.069)	95	1109755			102.74-	162.74	131.47
22.934	22.934	(1.069)	176	823501			66.81-	126.81	97.56

2 Propylene									
						CAS #: 115-07-1			
4.721	4.770	(0.309)	41	417404	9.90325	9.903	80.00-	120.00	100.00
4.721	4.770	(0.309)	42	262671			0.00-	30.00	62.93
4.721	4.770	(0.309)	39	292990			0.00-	30.00	70.19

4 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
5.252	5.300	(0.344)	85	1745599	10.0724	10.072	80.00-	120.00	100.00
5.252	5.300	(0.344)	87	569799			2.29-	62.29	32.64

6 Freon 114									
						CAS #: 76-14-2			
6.722	6.722	(0.441)	135	1148284	10.0103	10.010	80.00-	120.00	100.00
6.722	6.722	(0.441)	137	368330			0.00-	30.00	32.08

7 Chloromethane									
						CAS #: 74-87-3			
7.011	7.035	(0.460)	50	509262	9.41831	9.418	80.00-	120.00	100.00
7.011	7.035	(0.460)	52	166548			0.00-	30.00	32.70

9 Butane									
						CAS #: 106-97-8			
7.761	7.762	(0.509)	58	126750	10.0442	10.044	80.00-	120.00	100.00
7.761	7.762	(0.509)	43	836176			0.00-	30.00	659.70

10 Vinyl Chloride									
						CAS #: 75-01-4			
7.883	7.900	(0.517)	62	635182	10.0421	10.042	80.00-	120.00	100.00
7.883	7.900	(0.517)	64	204824			1.85-	61.85	32.25

11 1,3-Butadiene									
						CAS #: 106-99-0			
8.109	8.126	(0.532)	54	439286	10.0303	10.030	80.00-	120.00	100.00
8.109	8.126	(0.532)	39	420692			0.00-	30.00	95.77

12 Bromomethane									
						CAS #: 74-83-9			
9.542	9.543	(0.626)	94	389253	11.4066	11.407	80.00-	120.00	100.00
9.542	9.543	(0.626)	96	368980			61.29-	121.29	94.79

13 Chloroethane									
						CAS #: 75-00-3			
9.998	9.999	(0.655)	64	300193	10.5630	10.563	80.00-	120.00	100.00
9.998	9.999	(0.655)	66	101468			0.00-	30.00	33.80

14 Isopentane									
						CAS #: 78-78-4			
10.144	10.144	(0.665)	57	508266	10.8209	10.821	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)									
10.144	10.144	(0.665)	43	710362			0.00-	30.00	139.76
10.144	10.144	(0.665)	42	633267			0.00-	30.00	124.59

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	1612745	10.0058	10.006	80.00-	120.00	100.00
10.724	10.724	(0.703)	103	1049943			34.52-	94.52	65.10

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	197114	10.1976	10.198	80.00-	120.00	100.00
11.553	11.553	(0.757)	43	41452			0.00-	30.00	21.03
11.553	11.553	(0.757)	46	79162			0.00-	30.00	40.16

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	358061	9.52742	9.527	80.00-	120.00	100.00
12.030	12.030	(0.789)	61	876366			0.00-	30.00	244.75
12.030	12.030	(0.789)	96	565604			0.00-	30.00	157.96

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	963100	9.51176	9.512	80.00-	120.00	100.00
12.009	12.009	(0.787)	153	616549			34.75-	94.75	64.02
12.009	12.009	(0.787)	101	1258139			0.00-	30.00	130.63

24 Acetone CAS #: 67-64-1									
12.258	12.279	(0.804)	58	279170	10.8895	10.890	80.00-	120.00	100.00
12.258	12.279	(0.804)	43	845501			0.00-	30.00	302.86

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	1765234	10.4259	10.426	80.00-	120.00	100.00

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	214752	10.0723	10.072	80.00-	120.00	100.00
12.776	12.776	(0.837)	41	559002			0.00-	30.00	260.30

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	890448	9.19954	9.200	80.00-	120.00	100.00
12.569	12.569	(0.824)	43	178705			0.00-	30.00	20.07
12.569	12.569	(0.824)	59	38406			0.00-	30.00	4.31

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	520094	9.15476	9.155	80.00-	120.00	100.00
13.037	13.037	(0.855)	49	611195			0.00-	30.00	117.52
13.037	13.037	(0.855)	51	186015			0.00-	30.00	35.77

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	1225725	10.9062	10.906	80.00-	120.00	100.00

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		
==	=====	=====	====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)								
13.229	13.229	(0.867)	41	297158			0.00- 30.00	24.24
13.229	13.229	(0.867)	57	126358			0.00- 30.00	10.31

35 MTBE CAS #: 1634-04-4								
13.367	13.367	(0.876)	73	1886237	10.0542	10.054	80.00- 120.00	100.00
13.367	13.367	(0.876)	57	400209			0.00- 30.00	21.22
13.367	13.367	(0.876)	41	401587			0.00- 30.00	21.29

36 trans-1,2-Dichloroethene CAS #: 156-60-5								
13.422	13.422	(0.880)	98	449892	10.3245	10.324	80.00- 120.00	100.00
13.422	13.422	(0.880)	61	940505			0.00- 30.00	209.05
13.422	13.422	(0.880)	96	705399			0.00- 30.00	156.79

40 Hexane CAS #: 110-54-3								
13.724	13.724	(0.900)	57	1028859	9.82186	9.822	80.00- 120.00	100.00
13.724	13.724	(0.900)	43	636804			0.00- 30.00	61.89
13.724	13.724	(0.900)	86	203156			0.00- 30.00	19.75

41 Isopropyl ether CAS #: 108-20-3								
14.053	14.081	(0.921)	45	2153499	10.5185	10.518	80.00- 120.00	100.00
14.080	14.081	(0.923)	87	664778			0.00- 30.00	30.87
14.080	14.081	(0.923)	59	256049			0.00- 30.00	11.89

42 1,1-Dichloroethane CAS #: 75-34-3								
14.108	14.108	(0.925)	63	1152352	9.47812	9.478	80.00- 120.00	100.00
14.108	14.108	(0.925)	65	371190			0.00- 30.00	32.21

44 Vinyl Acetate CAS #: 108-05-4								
14.135	14.135	(0.927)	86	173316	10.3394	10.339	80.00- 120.00	100.00
14.135	14.135	(0.927)	42	226572			0.00- 30.00	130.73
14.135	14.135	(0.927)	43	2562942			0.00- 30.00	1478.77

46 Ethyl-tert-butyl ether CAS #: 637-92-3								
14.562	14.562	(0.955)	59	2111930	10.7982	10.798	80.00- 120.00	100.00
14.562	14.562	(0.955)	87	947417			0.00- 30.00	44.86
14.562	14.562	(0.955)	41	385196			0.00- 30.00	18.24

47 cis-1,2-Dichloroethene CAS #: 156-59-2								
14.915	14.915	(0.978)	98	441884	10.0049	10.005	80.00- 120.00	100.00
14.915	14.915	(0.978)	61	856875			0.00- 30.00	193.91
14.915	14.915	(0.978)	96	684152			128.14- 188.14	154.83

48 2-Butanone CAS #: 78-93-3								
14.915	14.915	(0.978)	72	346421	9.79437	9.794	80.00- 120.00	100.00
14.915	14.915	(0.978)	43	1218933			0.00- 30.00	351.86

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	CONCENTRATIONS		TARGET RANGE	RATIO		
				ON-COL	FINAL				
==	=====	=====	====	=====	=====	=====	=====	=====	=====
48 2-Butanone (continued)									
14.915	14.915	(0.978)	57	99249		0.00-	30.00	28.65	

51 Tetrahydrofuran					CAS #: 109-99-9				
15.255	15.255	(1.000)	42	698343	10.3075	10.308	80.00-	120.00	100.00
15.255	15.255	(1.000)	71	310493			0.00-	30.00	44.46
15.255	15.255	(1.000)	72	340414			0.00-	30.00	48.75

53 Chloroform					CAS #: 67-66-3				
15.317	15.317	(1.004)	83	1342423	9.75447	9.754	80.00-	120.00	100.00
15.317	15.317	(1.004)	85	861607			0.00-	30.00	64.18

55 Cyclohexane					CAS #: 110-82-7				
15.594	15.595	(1.022)	84	999615	10.0623	10.062	80.00-	120.00	100.00
15.594	15.595	(1.022)	56	1049062			0.00-	30.00	104.95
15.594	15.595	(1.022)	41	562220			0.00-	30.00	56.24

56 1,1,1-Trichloroethane					CAS #: 71-55-6				
15.594	15.595	(1.022)	97	1426317	10.1483	10.148	80.00-	120.00	100.00
15.594	15.595	(1.022)	99	914429			0.00-	30.00	64.11

57 Carbon Tetrachloride					CAS #: 56-23-5				
15.779	15.779	(1.034)	119	1401154	9.78421	9.784	80.00-	120.00	100.00
15.779	15.779	(1.034)	117	1459754			0.00-	30.00	104.18

59 2,2,4-Trimethylpentane					CAS #: 540-84-1				
16.043	16.043	(1.052)	56	1029054	9.05662	9.057	80.00-	120.00	100.00
16.043	16.043	(1.052)	57	3103121			0.00-	30.00	301.55
16.043	16.043	(1.052)	41	800201			0.00-	30.00	77.76

60 Benzene					CAS #: 71-43-2				
16.098	16.098	(0.967)	78	2141827	9.85038	9.850	80.00-	120.00	100.00
16.098	16.098	(0.967)	77	500673			0.00-	30.00	23.38

62 tert-amyl methyl ether					CAS #: 994-05-8				
16.153	16.153	(0.970)	87	496971	11.0916	11.092	80.00-	120.00	100.00
16.153	16.153	(0.970)	73	2085360			0.00-	30.00	419.61
16.153	16.153	(0.970)	55	538660			0.00-	30.00	108.39

63 1,2-Dichloroethane					CAS #: 107-06-2				
16.208	16.208	(0.974)	62	900086	9.72092	9.721	80.00-	120.00	100.00
16.208	16.208	(0.974)	64	295994			0.00-	30.00	32.89

64 Heptane					CAS #: 142-82-5				
16.290	16.290	(0.979)	57	608386	9.98447	9.984	80.00-	120.00	100.00
16.290	16.290	(0.979)	100	256263			0.00-	30.00	42.12

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	1116242			0.00-	30.00	183.48

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	952851	10.1644	10.164	80.00-	120.00	100.00
17.059	17.059	(1.025)	95	923394			0.00-	30.00	96.91
17.059	17.059	(1.025)	97	598696			0.00-	30.00	62.83

69 Methylcyclohexane CAS #: 108-87-2									
17.334	17.334	(1.041)	83	1311715	10.5941	10.594	80.00-	120.00	100.00
17.334	17.334	(1.041)	98	633179			0.00-	30.00	48.27
17.334	17.334	(1.041)	55	951343			0.00-	30.00	72.53

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	760411	10.0688	10.069	80.00-	120.00	100.00
17.526	17.526	(1.053)	62	540401			0.00-	30.00	71.07
17.526	17.526	(1.053)	41	414646			25.72-	85.72	54.53

74 1,4-Dioxane CAS #: 123-91-1									
17.663	17.636	(1.061)	88	511883	10.3804	10.380	80.00-	120.00	100.00
17.636	17.636	(1.059)	58	330133			0.00-	30.00	64.49
17.663	17.636	(1.061)	57	104162			0.00-	30.00	20.35

76 Bromodichloromethane CAS #: 75-27-4									
17.965	17.965	(1.079)	83	1443580	10.5175	10.517	80.00-	120.00	100.00
17.965	17.965	(1.079)	85	931569			0.00-	30.00	64.53

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	1184322	10.6780	10.678	80.00-	120.00	100.00
18.786	18.786	(1.128)	77	373766			0.00-	30.00	31.56
18.786	18.786	(1.128)	39	537922			16.72-	76.72	45.42

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	1445547	10.0933	10.093	80.00-	120.00	100.00
18.987	18.987	(1.141)	58	601123			0.00-	30.00	41.58
18.987	18.987	(1.141)	85	284714			0.00-	30.00	19.70

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	2382257	9.82383	9.824	80.00-	120.00	100.00
19.346	19.346	(1.162)	92	1409161			0.00-	30.00	59.15

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	1204375	10.5255	10.526	80.00-	120.00	100.00
19.749	19.749	(0.920)	77	382263			0.00-	30.00	31.74
19.749	19.749	(0.920)	39	528787			14.90-	74.90	43.91

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.069	20.036	(0.935)	97	879968	10.4135	10.414	80.00- 120.00	100.00	
20.069	20.069	(0.935)	99	548490			0.00- 30.00	62.33	
20.069	20.036	(0.935)	83	750330			54.89- 114.89	85.27	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	1176486	10.1503	10.150	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	894109			0.00- 30.00	76.00	
20.199	20.199	(0.941)	131	863222			0.00- 30.00	73.37	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	810643	10.4891	10.489	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1400060			0.00- 30.00	172.71	
20.329	20.329	(0.947)	100	190374			0.00- 30.00	23.48	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1468651	11.4931	11.493	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	1132932			0.00- 30.00	77.14	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.882	(0.973)	107	1399285	10.7372	10.737	80.00- 120.00	100.00	
20.881	20.882	(0.973)	109	1315399			0.00- 30.00	94.01	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1963472	10.1990	10.199	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	626971			0.00- 30.00	31.93	
21.504	21.504	(1.002)	77	1243334			34.50- 94.50	63.32	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	976184	10.5619	10.562	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	3012733			0.00- 30.00	308.62	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	1026573	10.5613	10.561	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	2015008			0.00- 30.00	196.28	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	968239	10.4485	10.448	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	2002668			0.00- 30.00	206.84	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1551077	10.5957	10.596	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	775820			0.00- 30.00	50.02	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1325898	11.5466	11.546	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	687613			0.00-	30.00	51.86

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2862988	10.4571	10.457	80.00-	120.00	100.00
22.676	22.676	(1.057)	120	770478			0.00-	30.00	26.91

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1858791	10.3964	10.396	80.00-	120.00	100.00
23.063	23.063	(1.075)	85	1193754			0.00-	30.00	64.22

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2710926	10.5124	10.512	80.00-	120.00	100.00
23.140	23.140	(1.078)	120	628297			0.00-	30.00	23.18

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	2107580	10.6453	10.645	80.00-	120.00	100.00
23.269	23.269	(1.085)	120	628807			0.00-	30.00	29.84

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1678519	10.7850	10.785	80.00-	120.00	100.00
23.321	23.321	(1.087)	120	808226			0.00-	30.00	48.15

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	1170306	10.5357	10.536	80.00-	120.00	100.00
23.759	23.759	(1.107)	120	540118			0.00-	30.00	46.15

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1332333	9.79531	9.795	80.00-	120.00	100.00
24.120	24.120	(1.124)	148	845947			0.00-	30.00	63.49
24.120	24.120	(1.124)	111	540152			0.00-	30.00	40.54

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	1204816	9.62692	9.627	80.00-	120.00	100.00
24.223	24.223	(1.129)	148	770253			0.00-	30.00	63.93
24.223	24.223	(1.129)	111	465249			0.00-	30.00	38.62

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	2004174	10.5866	10.586	80.00-	120.00	100.00
24.352	24.352	(1.135)	126	412775			0.00-	30.00	20.60

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	1156697	10.0238	10.024	80.00-	120.00	100.00
24.636	24.636	(1.148)	148	731846			33.90-	93.90	63.27
24.636	24.636	(1.148)	111	485624			12.45-	72.45	41.98

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	309869	8.48540	8.485	80.00- 120.00	100.00	
26.338	26.338	(1.228)	182	298419			0.00- 30.00	96.30	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	485349	8.57440	8.574	80.00- 120.00	100.00	
26.416	26.416	(1.231)	223	303632			0.00- 30.00	62.56	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	481633	7.60589	7.606	80.00- 120.00	100.00	
26.648	26.648	(1.242)	127	60266			0.00- 30.00	12.51	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a091519.d
 Lab Smp Id: LCS
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: db
 Method File: /chem/msda.i/15Sep2010.b/a1010915a.m
 Misc Info: 10ppbv (50ppbv)

Calibration Date: 15-SEP-2010
 Calibration Time: 16:48
 Client Smp ID: LCS
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	431428	3.82
66 1,4-Difluorobenze	1700376	1020226	2380526	1743509	2.54
88 Chlorobenzene-d5	1561316	936790	2185842	1619149	3.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 15Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS Client Smp ID: LCS
 Level: LOW Operator: db
 Data Type: MS DATA SampleType: LCS
 SpikeList File: AT09.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/15Sep2010.b/a1010915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	10.000	10.072	100.72	70-130
2 Propylene	10.000	9.903	99.03	60-140
6 Freon 114	10.000	10.010	100.10	70-130
7 Chloromethane	10.000	9.418	94.18	70-130
10 Vinyl Chloride	10.000	10.042	100.42	70-130
11 1,3-Butadiene	10.000	10.030	100.30	60-140
12 Bromomethane	10.000	11.407	114.07	70-130
13 Chloroethane	10.000	10.563	105.63	70-130
16 Trichlorofluoromet	10.000	10.006	100.06	70-130
20 Ethanol	10.000	10.198	101.98	60-140
22 Freon 113	10.000	9.512	95.12	70-130
23 1,1-Dichloroethene	10.000	9.527	95.27	70-130
24 Acetone	10.000	10.890	108.90	60-140
26 Carbon Disulfide	10.000	10.426	104.26	60-140
27 2-Propanol	10.000	9.200	92.00	60-140
28 3-Chloroprene	10.000	10.072	100.72	60-140
33 Methylene Chloride	10.000	9.155	91.55	70-130
35 MTBE	10.000	10.054	100.54	60-140
36 trans-1,2-Dichloro	10.000	10.324	103.25	60-140
40 Hexane	10.000	9.822	98.22	60-140
42 1,1-Dichloroethane	10.000	9.478	94.78	70-130
44 Vinyl Acetate	10.000	10.339	103.39	60-140
47 cis-1,2-Dichloroet	10.000	10.005	100.05	70-130
48 2-Butanone	10.000	9.794	97.94	60-140
51 Tetrahydrofuran	10.000	10.308	103.08	60-140
53 Chloroform	10.000	9.754	97.54	70-130
55 Cyclohexane	10.000	10.062	100.62	60-140
56 1,1,1-Trichloroeth	10.000	10.148	101.48	70-130
57 Carbon Tetrachlori	10.000	9.784	97.84	70-130
59 2,2,4-Trimethylpen	10.000	9.057	90.57	60-140
60 Benzene	10.000	9.850	98.50	70-130
64 Heptane	10.000	9.984	99.84	60-140
63 1,2-Dichloroethane	10.000	9.721	97.21	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 Trichloroethene	10.000	10.164	101.64	70-130
72 1,2-Dichloropropan	10.000	10.069	100.69	70-130
74 1,4-Dioxane	10.000	10.380	103.80	60-140
76 Bromodichlorometha	10.000	10.517	105.17	60-140
77 cis-1,3-Dichloropr	10.000	10.678	106.78	70-130
78 4-Methyl-2-pentano	10.000	10.093	100.93	60-140
81 Toluene	10.000	9.824	98.24	70-130
82 trans-1,3-Dichloro	10.000	10.526	105.26	70-130
83 1,1,2-Trichloroeth	10.000	10.414	104.14	70-130
85 2-Hexanone	10.000	10.489	104.89	60-140
84 Tetrachloroethene	10.000	10.150	101.50	70-130
86 Dibromochlorometha	10.000	11.493	114.93	60-140
87 1,2-Dibromoethane	10.000	10.737	107.37	70-130
89 Chlorobenzene	10.000	10.199	101.99	70-130
91 Ethyl Benzene	10.000	10.562	105.62	70-130
93 m,p-Xylene	10.000	10.561	105.61	70-130
94 o-Xylene	10.000	10.448	104.48	70-130
95 Styrene	10.000	10.596	105.96	70-130
97 Bromoform	10.000	11.546	115.47	60-140
98 Cumene	10.000	10.457	104.57	60-140
103 1,1,2,2-Tetrachlor	10.000	10.396	103.96	70-130
104 Propylbenzene	10.000	10.512	105.12	70-130
107 4-Ethyltoluene	10.000	10.645	106.45	60-140
109 1,3,5-Trimethylben	10.000	10.785	107.85	70-130
112 1,2,4-Trimethylben	10.000	10.536	105.36	70-130
115 1,3-Dichlorobenzen	10.000	9.795	97.95	70-130
117 1,4-Dichlorobenzen	10.000	9.627	96.27	70-130
118 alpha-chlorotoluen	10.000	10.586	105.87	70-130
121 1,2-Dichlorobenzen	10.000	10.024	100.24	70-130
126 1,2,4-Trichloroben	10.000	8.485	84.85	70-130
128 Hexachlorobutadien	10.000	8.574	85.74	70-130
129 Naphthalene	10.000	7.606	76.06	60-140
14 Isopentane	10.000	10.821	108.21	60-140
9 Butane	10.000	10.044	100.44	60-140
69 Methylcyclohexane	10.000	10.594	105.94	60-140
34 tert-butyl alcohol	10.000	10.906	109.06	60-140
41 Isopropyl ether	10.000	10.518	105.18	60-140
46 Ethyl-tert-butyl e	10.000	10.798	107.98	60-140
62 tert-amyl methyl e	10.000	11.092	110.92	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	9.735	97.35	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 80 Toluene-d8	10.000	9.976	99.76	70-130
\$ 100 Bromofluorobenzene	10.000	10.203	102.03	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091509.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 15-SEP-2010 12:55
Operator : db Inst ID: msda.i
Smp Info : 250ml #1936-334
Misc Info : 0.05ppbv (0.05ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 16:03 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 12:55 Cal File: a091509.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level05.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	435848	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	336905				0.00- 30.00	77.30
15.255	15.255	(1.000)	49	557242				0.00- 30.00	127.85

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1776126	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	293068				0.00- 30.00	16.50

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1598853	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	944821				0.00- 30.00	59.09

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	603400	10.0000	9.525		70.00- 130.00	100.00
16.098	16.098	(1.055)	67	317866				0.00- 30.00	52.68

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1803815	10.0000	9.971		70.00- 130.00	100.00
19.234	19.234	(1.155)	70	206176				0.00- 30.00	11.43

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1195358			36.45- 96.45	66.27	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	775439	10.0000	9.492	70.00- 130.00	100.00	
22.934	22.934	(1.069)	95	1056284			102.74- 162.74	136.22	
22.934	22.934	(1.069)	176	754212			66.81- 126.81	97.26	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.276	5.276	(0.346)	85	8635	0.05000	0.04932	70.00- 130.00	100.00(a)	
5.276	5.276	(0.346)	87	2039			2.29- 62.29	23.61	

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	6327	0.05000	0.05460	70.00- 130.00	100.00	
6.722	6.722	(0.441)	137	1732			0.00- 30.00	27.37	

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	8501	0.05000	0.05221	70.00- 130.00	100.00	
10.745	10.745	(0.704)	103	5773			34.52- 94.52	67.91	

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	5105	0.05000	0.04991	70.00- 130.00	100.00(a)	
12.009	12.009	(0.787)	153	3471			34.75- 94.75	67.99	
12.009	12.009	(0.787)	101	7781			0.00- 30.00	152.42	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.564	15.564	(1.020)	97	6883	0.05000	0.04848	70.00- 130.00	100.00(a)	
15.594	15.594	(1.022)	99	4845			0.00- 30.00	70.39	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	9590	0.05000	0.06629	70.00- 130.00	100.00	
15.779	15.779	(1.034)	117	7099			0.00- 30.00	74.03	

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	4873	0.05000	0.05103	70.00- 130.00	100.00	
17.059	17.059	(1.025)	95	5019			0.00- 30.00	103.00	
17.059	17.059	(1.025)	97	3688			0.00- 30.00	75.68	

76 Bromodichloromethane CAS #: 75-27-4									
17.965	17.965	(1.079)	83	7125	0.05000	0.05096	70.00- 130.00	100.00	
17.938	17.938	(1.078)	85	4349			0.00- 30.00	61.04	

83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.069	20.069	(0.935)	97	4283	0.05000	0.05133	70.00- 130.00	100.00	
20.069	20.069	(0.935)	99	2430			0.00- 30.00	56.74	
20.036	20.036	(0.934)	83	4305			54.89- 114.89	100.51	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	5996	0.05000	0.05239	70.00- 130.00	100.00	
20.199	20.199	(0.941)	129	4457			0.00- 30.00	74.33	
20.199	20.199	(0.941)	131	4597			0.00- 30.00	76.67	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	4951	0.05000	0.03924	70.00- 130.00	100.00(a)	
20.654	20.654	(0.963)	127	6936			0.00- 30.00	140.09	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	6189	0.05000	0.04809	70.00- 130.00	100.00(a)	
20.881	20.881	(0.973)	109	6544			0.00- 30.00	105.74	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	4775	0.05000	0.04211	70.00- 130.00	100.00(a)	
22.573	22.573	(1.052)	171	2522			0.00- 30.00	52.82	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	9583	0.05000	0.05428	70.00- 130.00	100.00	
23.063	23.063	(1.075)	85	6231			0.00- 30.00	65.02	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	9000	0.05000	0.06701	70.00- 130.00	100.00	
24.120	24.120	(1.124)	148	4345			0.00- 30.00	48.28	
24.120	24.120	(1.124)	111	2945			0.00- 30.00	32.72	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	9224	0.05000	0.07464	70.00- 130.00	100.00	
24.223	24.223	(1.129)	148	4162			0.00- 30.00	45.12	
24.223	24.223	(1.129)	111	2750			0.00- 30.00	29.81	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	9469	0.05000	0.05065	70.00- 130.00	100.00(a)	
24.352	24.352	(1.135)	126	2717			0.00- 30.00	28.69	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	6808	0.05000	0.05974	70.00- 130.00	100.00	
24.636	24.636	(1.148)	148	5009			33.90- 93.90	73.58	
24.636	24.636	(1.148)	111	3613			12.45- 72.45	53.07	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091509.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 4
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m	
Misc Info: 0.05ppbv (0.05ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	435848	4.89
66 1,4-Difluorobenze	1700376	1020226	2380526	1776126	4.45
88 Chlorobenzene-d5	1561316	936790	2185842	1598853	2.40

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 15-SEP-2010 12:55

Client ID: Level 4

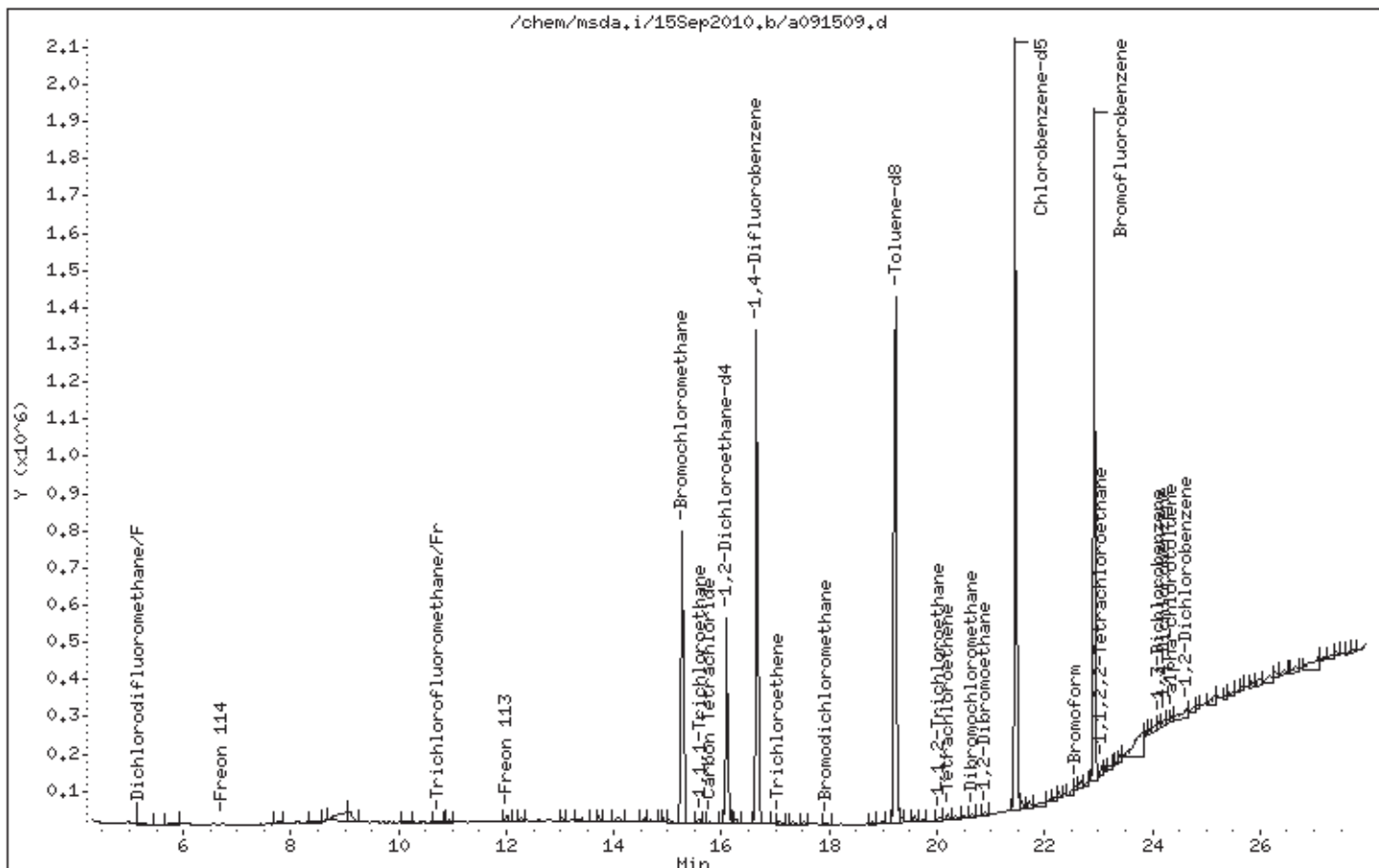
Instrument: msda.i

Sample Info: 250ml #1936-334

Operator: db

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091510.d
 Lab Smp Id: ICAL Client Smp ID: Level 5
 Inj Date : 15-SEP-2010 13:58
 Operator : db Inst ID: msda.i
 Smp Info : 12.5ml #1936-333
 Misc Info : 0.1ppbv (2.0ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 16:04 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 13:58 Cal File: a091510.d
 Als bottle: 2 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: Level#1.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	425387	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	329979				0.00- 30.00	77.57
15.255	15.255	(1.000)	49	549973				0.00- 30.00	129.29

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1792947	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	292968				0.00- 30.00	16.34

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1601246	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	938094				0.00- 30.00	58.59

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	640295	10.0000	10.356		70.00- 130.00	100.00
16.098	16.098	(1.055)	67	333300				0.00- 30.00	52.05

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1794114	10.0000	9.825		70.00- 130.00	100.00
19.234	19.234	(1.155)	70	207198				0.00- 30.00	11.55

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1198351			36.45-	96.45	66.79

\$ 100 Bromofluorobenzene									
						CAS #:	460-00-4		
22.934	22.934	(1.069)	174	784299	10.0000	9.586	70.00-	130.00	100.00
22.934	22.934	(1.069)	95	1045963			102.74-	162.74	133.36
22.934	22.934	(1.069)	176	761746			66.81-	126.81	97.12

4 Dichlorodifluoromethane/Fr12									
						CAS #:	75-71-8		
5.276	5.276	(0.346)	85	20591	0.10000	0.1205	70.00-	130.00	100.00
5.276	5.276	(0.346)	87	6262			2.29-	62.29	30.41

6 Freon 114									
						CAS #:	76-14-2		
6.698	6.698	(0.439)	135	14061	0.10000	0.1243	70.00-	130.00	100.00
6.698	6.698	(0.439)	137	4366			0.00-	30.00	31.05

7 Chloromethane									
						CAS #:	74-87-3		
7.011	7.011	(0.460)	50	7595	0.10000	0.1424	70.00-	130.00	100.00
7.011	7.011	(0.460)	52	2643			0.00-	30.00	34.80

10 Vinyl Chloride									
						CAS #:	75-01-4		
7.883	7.883	(0.517)	62	7795	0.10000	0.1250	70.00-	130.00	100.00
7.883	7.883	(0.517)	64	3138			1.85-	61.85	40.26

11 1,3-Butadiene									
						CAS #:	106-99-0		
8.109	8.109	(0.532)	54	5432	0.10000	0.1258	70.00-	130.00	100.00
8.109	8.109	(0.532)	39	8245			0.00-	30.00	151.79

12 Bromomethane									
						CAS #:	74-83-9		
9.542	9.542	(0.626)	94	3993	0.10000	0.1187	70.00-	130.00	100.00
9.522	9.522	(0.624)	96	3471			61.29-	121.29	86.93

13 Chloroethane									
						CAS #:	75-00-3		
9.978	9.978	(0.654)	64	3116	0.10000	0.1112	70.00-	130.00	100.00
9.998	9.998	(0.655)	66	996			0.00-	30.00	31.96

16 Trichlorofluoromethane/Fr11									
						CAS #:	75-69-4		
10.724	10.724	(0.703)	101	19591	0.10000	0.1233	70.00-	130.00	100.00
10.724	10.724	(0.703)	103	12581			34.52-	94.52	64.22

22 Freon 113									
						CAS #:	76-13-1		
12.009	12.009	(0.787)	151	13057	0.10000	0.1308	70.00-	130.00	100.00
12.009	12.009	(0.787)	153	8288			34.75-	94.75	63.48
12.009	12.009	(0.787)	101	17239			0.00-	30.00	132.03

23 1,1-Dichloroethene									
						CAS #:	75-35-4		
12.030	12.030	(0.789)	98	4898	0.10000	0.1322	70.00-	130.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
23 1,1-Dichloroethene (continued)									
12.030	12.030	(0.789)	61	12384			0.00-	30.00	252.84
12.030	12.030	(0.789)	96	8517			0.00-	30.00	173.89

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	7231	0.10000	0.1291	70.00-	130.00	100.00(a)
13.037	13.037	(0.855)	49	9031			0.00-	30.00	124.89
13.037	13.037	(0.855)	51	2934			0.00-	30.00	40.58

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	23054	0.10000	0.1246	70.00-	130.00	100.00
13.367	13.367	(0.876)	57	5981			0.00-	30.00	25.94
13.367	13.367	(0.876)	41	5675			0.00-	30.00	24.62

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.422	13.422	(0.880)	98	5398	0.10000	0.1256	70.00-	130.00	100.00
13.422	13.422	(0.880)	61	11350			0.00-	30.00	210.26
13.422	13.422	(0.880)	96	9595			0.00-	30.00	177.75

40 Hexane CAS #: 110-54-3									
13.724	13.724	(0.900)	57	13549	0.10000	0.1312	70.00-	130.00	100.00
13.724	13.724	(0.900)	43	8983			0.00-	30.00	66.30
13.724	13.724	(0.900)	86	2462			0.00-	30.00	18.17

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	15799	0.10000	0.1318	70.00-	130.00	100.00
14.108	14.108	(0.925)	65	4933			0.00-	30.00	31.22

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	4455	0.10000	0.1277	70.00-	130.00	100.00
14.915	14.915	(0.978)	43	15693			0.00-	30.00	352.26
14.915	14.915	(0.978)	57	1293			0.00-	30.00	29.02

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	5602	0.10000	0.1286	70.00-	130.00	100.00
14.915	14.915	(0.978)	61	10696			0.00-	30.00	190.93
14.915	14.915	(0.978)	96	10059			128.14-	188.14	179.56

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	17482	0.10000	0.1288	70.00-	130.00	100.00
15.317	15.317	(1.004)	85	10473			0.00-	30.00	59.91

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.564	15.564	(1.020)	97	16962	0.10000	0.1224	70.00-	130.00	100.00
15.564	15.564	(1.020)	99	10923			0.00-	30.00	64.40

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	12418	0.10000	0.1268	70.00- 130.00	100.00	
15.594	15.594	(1.022)	56	14241			0.00- 30.00	114.68	
15.594	15.594	(1.022)	41	8344			0.00- 30.00	67.19	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	16088	0.10000	0.1139	70.00- 130.00	100.00	
15.779	15.779	(1.034)	117	15895			0.00- 30.00	98.80	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	18826	0.10000	0.1680	70.00- 130.00	100.00	
16.043	16.043	(1.052)	57	36479			0.00- 30.00	193.77	
16.043	16.043	(1.052)	41	15699			0.00- 30.00	83.39	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	30303	0.10000	0.1355	70.00- 130.00	100.00	
16.098	16.098	(0.967)	77	6561			0.00- 30.00	21.65	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	12240	0.10000	0.1285	70.00- 130.00	100.00	
16.208	16.208	(0.974)	64	4603			0.00- 30.00	37.61	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	7895	0.10000	0.1260	70.00- 130.00	100.00	
16.263	16.263	(0.977)	100	2788			0.00- 30.00	35.31	
16.290	16.290	(0.979)	43	13281			0.00- 30.00	168.22	

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	12139	0.10000	0.1259	70.00- 130.00	100.00	
17.059	17.059	(1.025)	95	10297			0.00- 30.00	84.83	
17.059	17.059	(1.025)	97	7779			0.00- 30.00	64.08	

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	9947	0.10000	0.1281	70.00- 130.00	100.00	
17.526	17.526	(1.053)	62	6730			0.00- 30.00	67.66	
17.526	17.526	(1.053)	41	6881			25.72- 85.72	69.18	

74 1,4-Dioxane CAS #: 123-91-1									
17.663	17.663	(1.061)	88	6131	0.10000	0.1209	70.00- 130.00	100.00	
17.663	17.663	(1.061)	58	4490			0.00- 30.00	73.23	
17.663	17.663	(1.061)	57	1349			0.00- 30.00	22.00	

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	15861	0.10000	0.1124	70.00- 130.00	100.00	
17.938	17.938	(1.078)	85	10304			0.00- 30.00	64.96	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

77 cis-1,3-Dichloropropene						CAS #: 10061-01-5			
18.786	18.786	(1.128)	75	13389	0.10000	0.1174	70.00- 130.00	100.00	
18.786	18.786	(1.128)	77	3554			0.00- 30.00	26.54	
18.786	18.786	(1.128)	39	6820			16.72- 76.72	50.94	

78 4-Methyl-2-pentanone						CAS #: 108-10-1			
18.987	18.987	(1.141)	43	15937	0.10000	0.1082	70.00- 130.00	100.00	
18.987	18.987	(1.141)	58	6537			0.00- 30.00	41.02	
18.987	18.987	(1.141)	85	2892			0.00- 30.00	18.15	

81 Toluene						CAS #: 108-88-3			
19.346	19.346	(1.162)	91	30283	0.10000	0.1214	70.00- 130.00	100.00	
19.346	19.346	(1.162)	92	18520			0.00- 30.00	61.16	

82 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
19.749	19.749	(0.920)	75	12694	0.10000	0.1122	70.00- 130.00	100.00	
19.749	19.749	(0.920)	77	4852			0.00- 30.00	38.22	
19.749	19.749	(0.920)	39	8624			14.90- 74.90	67.94	

83 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.036	20.036	(0.934)	97	9230	0.10000	0.1104	70.00- 130.00	100.00	
20.069	20.069	(0.935)	99	6363			0.00- 30.00	68.94	
20.036	20.036	(0.934)	83	8954			54.89- 114.89	97.01	

84 Tetrachloroethene						CAS #: 127-18-4			
20.199	20.199	(0.941)	166	13661	0.10000	0.1192	70.00- 130.00	100.00	
20.199	20.199	(0.941)	129	10626			0.00- 30.00	77.78	
20.199	20.199	(0.941)	131	10128			0.00- 30.00	74.14	

86 Dibromochloromethane						CAS #: 124-48-1			
20.654	20.654	(0.963)	129	13258	0.10000	0.1049	70.00- 130.00	100.00	
20.654	20.654	(0.963)	127	11379			0.00- 30.00	85.83	

87 1,2-Dibromoethane						CAS #: 106-93-4			
20.881	20.881	(0.973)	107	15436	0.10000	0.1198	70.00- 130.00	100.00	
20.881	20.881	(0.973)	109	14960			0.00- 30.00	96.92	

89 Chlorobenzene						CAS #: 108-90-7			
21.504	21.504	(1.002)	112	23570	0.10000	0.1238	70.00- 130.00	100.00	
21.504	21.504	(1.002)	114	7350			0.00- 30.00	31.18	
21.456	21.456	(1.000)	77	30251			34.50- 94.50	128.35	

91 Ethyl Benzene						CAS #: 100-41-4			
21.576	21.576	(1.006)	106	10584	0.10000	0.1158	70.00- 130.00	100.00	
21.576	21.576	(1.006)	91	32502			0.00- 30.00	307.09	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	10758	0.10000	0.1119	70.00- 130.00	100.00	
21.721	21.721	(1.012)	91	21181			0.00- 30.00	196.89	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	10418	0.10000	0.1137	70.00- 130.00	100.00	
22.251	22.251	(1.037)	91	21600			0.00- 30.00	207.33	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	15141	0.10000	0.1046	70.00- 130.00	100.00	
22.275	22.275	(1.038)	78	9026			0.00- 30.00	59.61	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	10864	0.10000	0.09567	70.00- 130.00	100.00(a)	
22.573	22.573	(1.052)	171	5465			0.00- 30.00	50.30	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	29197	0.10000	0.1078	70.00- 130.00	100.00	
22.676	22.676	(1.057)	120	8113			0.00- 30.00	27.79	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	19268	0.10000	0.1090	70.00- 130.00	100.00	
23.063	23.063	(1.075)	85	12621			0.00- 30.00	65.50	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	25876	0.10000	0.1015	70.00- 130.00	100.00	
23.140	23.140	(1.078)	120	6222			0.00- 30.00	24.05	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	21089	0.10000	0.1077	70.00- 130.00	100.00	
23.269	23.269	(1.085)	120	6198			0.00- 30.00	29.39	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	16891	0.10000	0.1097	70.00- 130.00	100.00	
23.321	23.321	(1.087)	120	8400			0.00- 30.00	49.73	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	12815	0.10000	0.1166	70.00- 130.00	100.00	
23.759	23.759	(1.107)	120	7259			0.00- 30.00	56.64	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	15316	0.10000	0.1139	70.00- 130.00	100.00	
24.120	24.120	(1.124)	148	9414			0.00- 30.00	61.47	
24.120	24.120	(1.124)	111	6111			0.00- 30.00	39.90	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	14109	0.10000	0.1140	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
117 1,4-Dichlorobenzene (continued)									
24.223	24.223	(1.129)	148	7350			0.00- 30.00	52.09	
24.223	24.223	(1.129)	111	4274			0.00- 30.00	30.29	

118 alpha-chlorotoluene					CAS #: 100-44-7				
24.352	24.352	(1.135)	91	17260	0.10000	0.09219	70.00- 130.00	100.00(a)	
24.352	24.352	(1.135)	126	3553			0.00- 30.00	20.59	

121 1,2-Dichlorobenzene					CAS #: 95-50-1				
24.636	24.636	(1.148)	146	13527	0.10000	0.1185	70.00- 130.00	100.00	
24.636	24.636	(1.148)	148	7791			33.90- 93.90	57.60	
24.636	24.636	(1.148)	111	5588			12.45- 72.45	41.31	

QC Flag Legend

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

Date : 15-SEP-2010 13:58

Client ID: Level 5

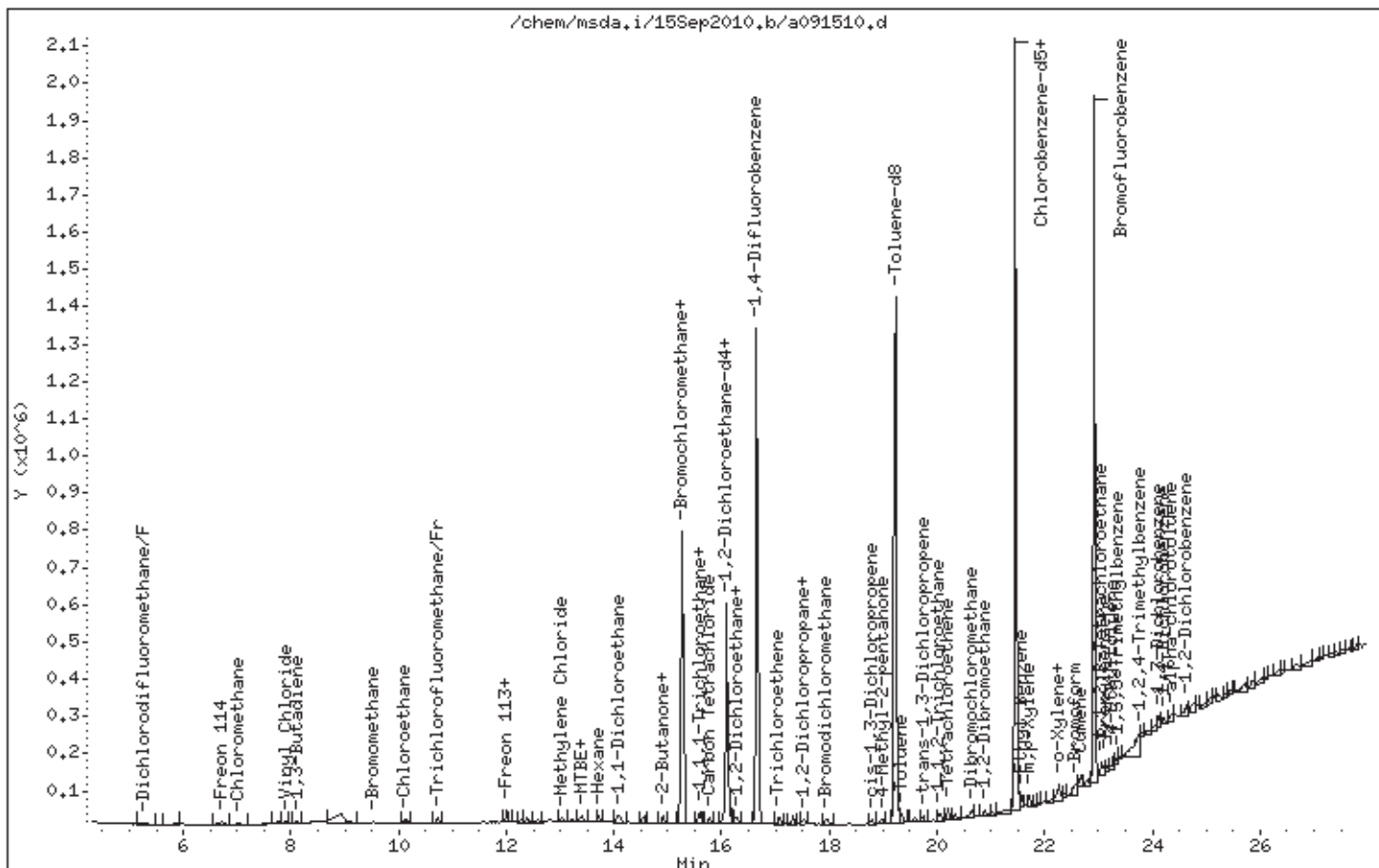
Instrument: msda,i

Sample Info: 12.5ml #1936-333

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092013.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 20-SEP-2010 18:41
Operator : ea Inst ID: msda.i
Smp Info : 62.5mL #1936-321
Misc Info : 0.5ppbv (2ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 18:41 Cal File: a092013.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Nonane.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	424135	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	334402				48.35- 108.35	78.84
15.255	15.255	(1.000)	49	497503				89.31- 149.31	117.30

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1758355	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	276760				0.00- 46.24	15.74

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1605026	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	895021				25.95- 85.95	55.76

90 Nonane CAS #: 111-84-2									
21.576	21.576	(1.006)	43	25600	0.50000	0.5165		0.00- 30.00	100.00
21.576	21.576	(1.006)	57	22265				0.00- 30.00	86.97
21.576	21.576	(1.006)	85	10456				0.00- 30.00	40.84

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 20-SEP-2010
Lab File ID: a092013.d	Calibration Time: 10:29
Lab Smp Id: ICAL	Client Smp ID: Level 6
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/20Sep2010.b/a1010915a.m	
Misc Info: 0.5ppbv (2ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	471799	283079	660519	424135	-10.10
66 1,4-Difluorobenze	1948064	1168838	2727290	1758355	-9.74
88 Chlorobenzene-d5	1784561	1070737	2498385	1605026	-10.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 20-SEP-2010 18:41

Client ID: Level 6

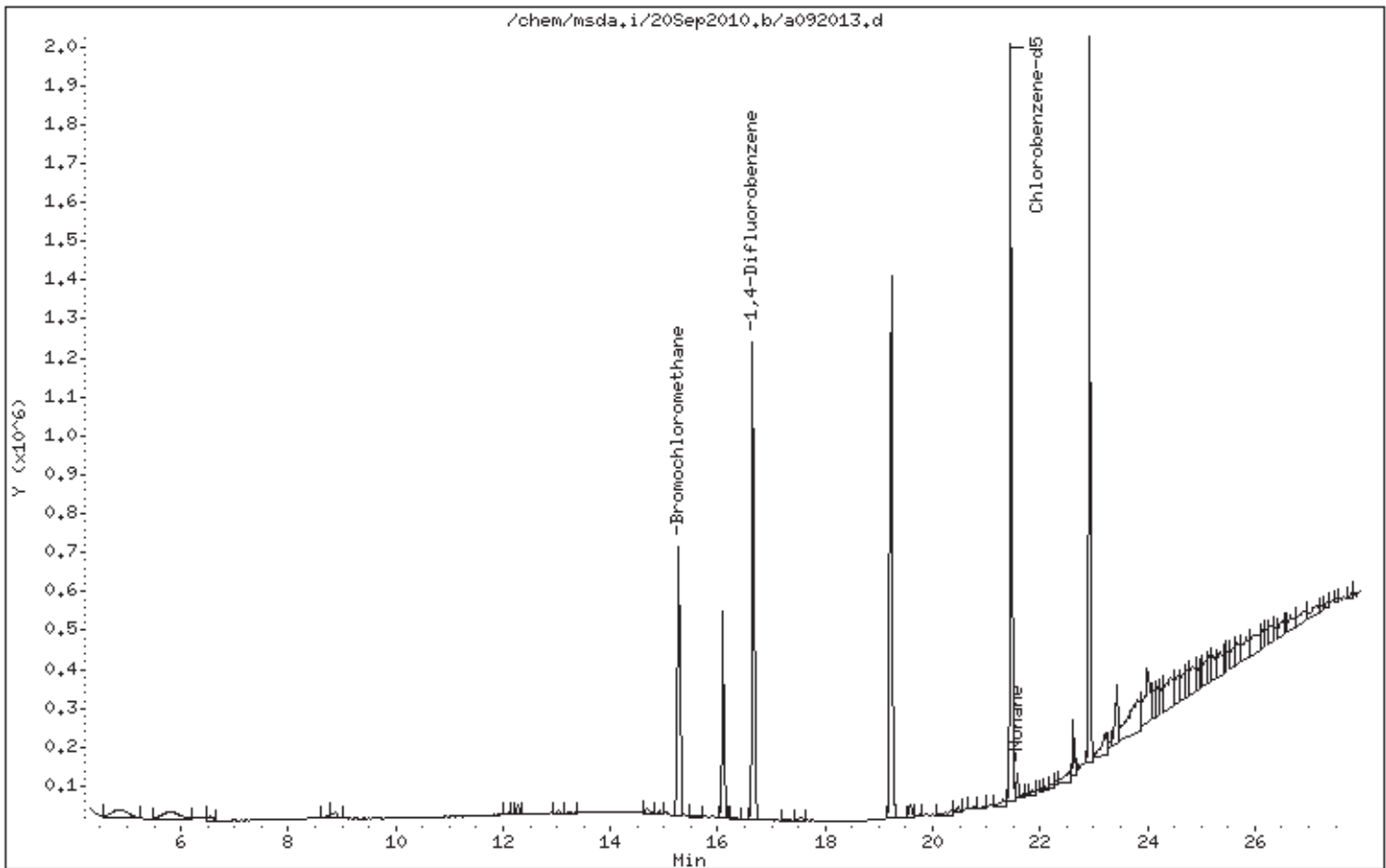
Instrument: msda.i

Sample Info: 62,5mL #1936-321

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092010.d
 Lab Smp Id: ICAL Client Smp ID: Level 6
 Inj Date : 20-SEP-2010 16:25
 Operator : ea Inst ID: msda.i
 Smp Info : 25mL #1936-317
 Misc Info : 0.5ppbv (5ppbv)
 Comment :
 Method : /chem/msda.i/20Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 16:25 Cal File: a092010.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: spAT1.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	450475	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	349736				47.34- 107.34	77.64
15.255	15.255	(1.000)	49	526907				87.98- 147.98	116.97

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1919454	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	306190				0.00- 45.99	15.95

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1744970	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	962188				26.23- 86.23	55.14

1 Freon134a CAS #: 811-97-2									
4.553	4.553	(0.298)	83	20642	0.50000	0.5398		0.00- 30.00	100.00
4.553	4.553	(0.298)	69	19074				0.00- 30.00	92.40

3 Freon 152A CAS #: 75-37-6									
5.059	5.059	(0.332)	65	14342	0.50000	0.5578		0.00- 30.00	100.00
5.059	5.059	(0.332)	51	25563				0.00- 30.00	178.24

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
5 Freon 22					CAS #: 75-45-6				
5.806	5.806	(0.381)	51	31618	0.50000	0.5384	0.00-	30.00	100.00
5.830	5.830	(0.382)	67	7374			0.00-	30.00	23.32
6.963	6.963	(0.456)	85	6901			0.00-	30.00	21.83

58 1,1-Dichloropropene					CAS #: 563-58-6				
15.810	15.810	(1.036)	110	21497	0.50000	0.5435	0.00-	30.00	100.00
15.810	15.810	(1.036)	75	57667			0.00-	30.00	268.26

92 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6				
21.601	21.601	(1.007)	131	54586	0.50000	0.5291	0.00-	30.00	100.00
21.601	21.601	(1.007)	117	37155			0.00-	30.00	68.07
21.601	21.601	(1.007)	95	21026			0.00-	30.00	38.52

105 1,2,3-Trichloropropane					CAS #: 96-18-4				
23.166	23.166	(1.080)	110	28913	0.50000	0.5324	0.00-	30.00	100.00
23.166	23.166	(1.080)	75	76786			0.00-	30.00	265.58
23.166	23.166	(1.080)	61	19613			0.00-	30.00	67.83

108 2-Chlorotoluene					CAS #: 95-49-8				
23.295	23.295	(1.086)	126	30641	0.50000	0.5193	0.00-	30.00	100.00
23.295	23.295	(1.086)	91	88150			0.00-	30.00	287.69
23.295	23.295	(1.086)	65	7966			0.00-	30.00	26.00

110 4-Chlorotoluene					CAS #: 106-43-4				
23.424	23.424	(1.092)	126	28550	0.50000	0.5298	0.00-	30.00	100.00
23.424	23.424	(1.092)	91	79722			0.00-	30.00	279.24
23.424	23.424	(1.092)	63	9817			0.00-	30.00	34.39

111 tert-Butylbenzene					CAS #: 98-06-6				
23.682	23.682	(1.104)	119	69080	0.50000	0.5041	0.00-	30.00	100.00
23.682	23.682	(1.104)	134	18404			0.00-	30.00	26.64
23.682	23.682	(1.104)	91	49758			0.00-	30.00	72.03

113 sec-Butylbenzene					CAS #: 135-98-8				
23.914	23.914	(1.115)	105	97600	0.50000	0.5118	0.00-	30.00	100.00
23.914	23.914	(1.115)	134	19807			0.00-	30.00	20.29
23.914	23.914	(1.115)	91	17704			0.00-	30.00	18.14

114 p-Cymene					CAS #: 99-87-6				
24.069	24.069	(1.122)	119	64876	0.50000	0.5147	0.00-	30.00	100.00
24.069	24.069	(1.122)	134	18307			0.00-	30.00	28.22
24.069	24.069	(1.122)	91	15575			0.00-	30.00	24.01

116 1,2,3-trimethylbenzene					CAS #: 526-73-8				
24.223	24.223	(1.129)	120	23266	0.50000	0.5288	0.00-	30.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
116 1,2,3-trimethylbenzene (continued)									
24.223	24.223	(1.129)	105	50214			0.00-	30.00	215.83
24.223	24.223	(1.129)	77	6503			0.00-	30.00	27.95

120 Butylbenzene CAS #: 104-51-8									
24.481	24.481	(1.141)	134	13860	0.50000	0.5195	0.00-	30.00	100.00
24.481	24.481	(1.141)	91	49923			0.00-	30.00	360.19
24.481	24.481	(1.141)	92	26129			0.00-	30.00	188.52

124 1,2-dibromo-3-chloropropane CAS #: 96-12-8									
25.461	25.461	(1.187)	157	33811	0.50000	0.4874	0.00-	30.00	100.00(a)
25.461	25.461	(1.187)	75	30653			0.00-	30.00	90.66
25.461	25.461	(1.187)	155	25980			0.00-	30.00	76.84

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 20-SEP-2010
Lab File ID: a092010.d	Calibration Time: 10:29
Lab Smp Id: ICAL	Client Smp ID: Level 6
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/20Sep2010.b/a1010915a.m	
Misc Info: 0.5ppbv (5ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	471799	283079	660519	450475	-4.52
66 1,4-Difluorobenze	1948064	1168838	2727290	1919454	-1.47
88 Chlorobenzene-d5	1784561	1070737	2498385	1744970	-2.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 20-SEP-2010 16:25

Client ID: Level 6

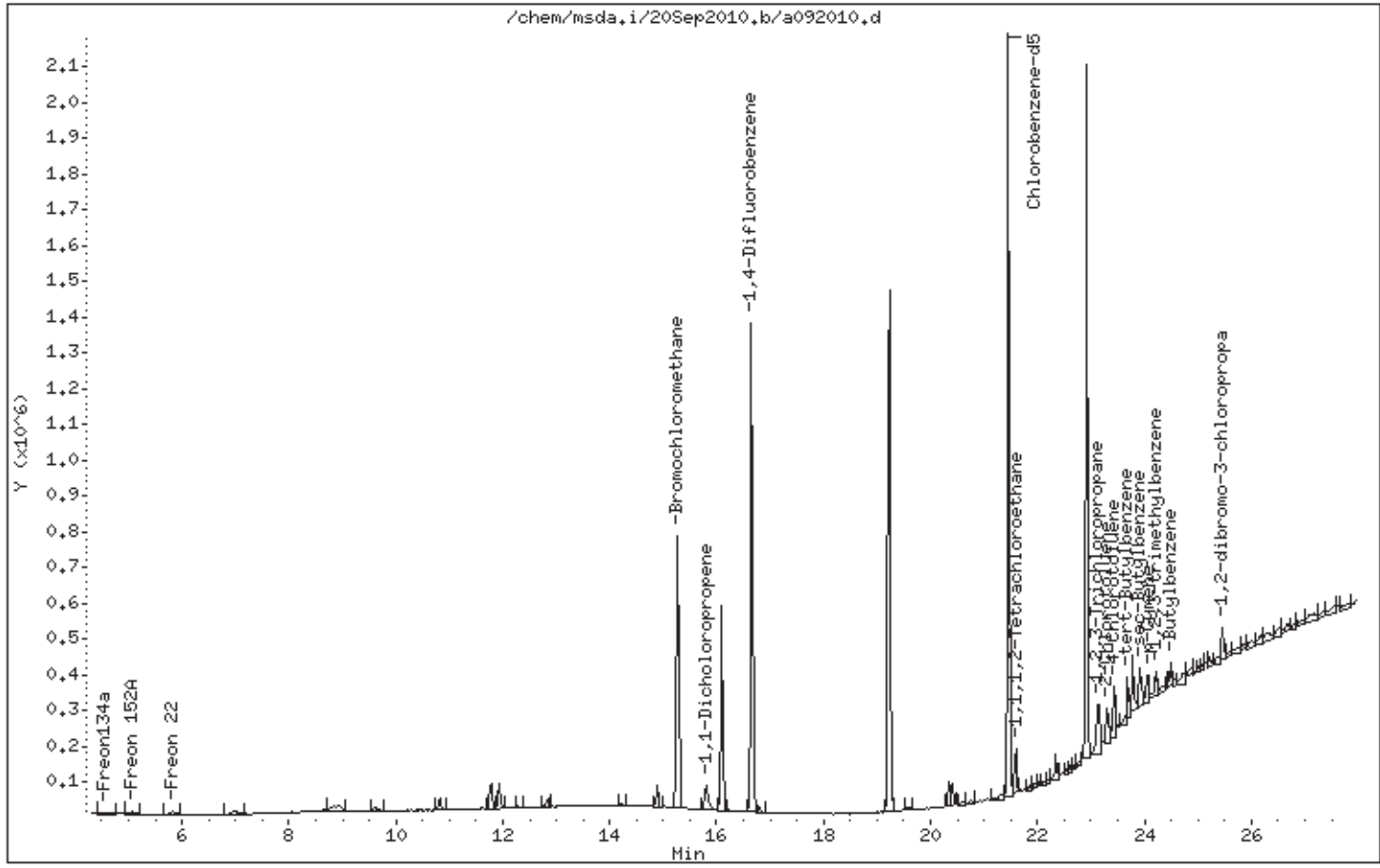
Instrument: msda.i

Sample Info: 25mL #1936-317

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092005.d
 Lab Smp Id: ICAL Client Smp ID: Level 6
 Inj Date : 20-SEP-2010 13:01
 Operator : ej Inst ID: msda.i
 Smp Info : 25mL #1936-323
 Misc Info : 0.5ppbv (5ppbv)
 Comment :
 Method : /chem/msda.i/20Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 17:48 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 16:25 Cal File: a092010.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: spAT4.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	459339	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	352545				47.34- 107.34	76.75
15.255	15.255	(1.000)	49	532619				87.98- 147.98	115.95

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1962174	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	314059				0.00- 45.99	16.01

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1762383	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	973245				26.23- 86.23	55.22

15 Vinyl Bromide CAS #: 593-60-2									
10.558	10.558	(0.692)	106	28027	0.50000	0.5416		70.00- 130.00	100.00
10.558	10.558	(0.692)	108	26460				64.72- 124.72	94.41

31 Acetonitrile CAS #: 75-05-8									
12.900	12.900	(0.846)	40	22952	0.50000	0.5675		70.00- 130.00	100.00(H)
12.900	12.900	(0.846)	41	40865				161.35- 221.35	178.05

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
31 Acetonitrile (continued)									
12.900	12.900	(0.846)	39	9293			9.43- 69.43	40.49	

37 Acrylonitrile CAS #: 107-13-1									
13.531	13.531	(0.887)	53	27078	0.50000	0.5492	70.00- 130.00	100.00	
13.531	13.531	(0.887)	52	21337			51.80- 111.80	78.80	

43 Chloroprene CAS #: 126-99-8									
14.190	14.190	(0.930)	53	43574	0.50000	0.5403	70.00- 130.00	100.00(H)	
14.190	14.190	(0.930)	88	29031			34.80- 94.80	66.62	

QC Flag Legend

H - Operator selected an alternate compound hit.

Date : 20-SEP-2010 13:01

Client ID: Level 6

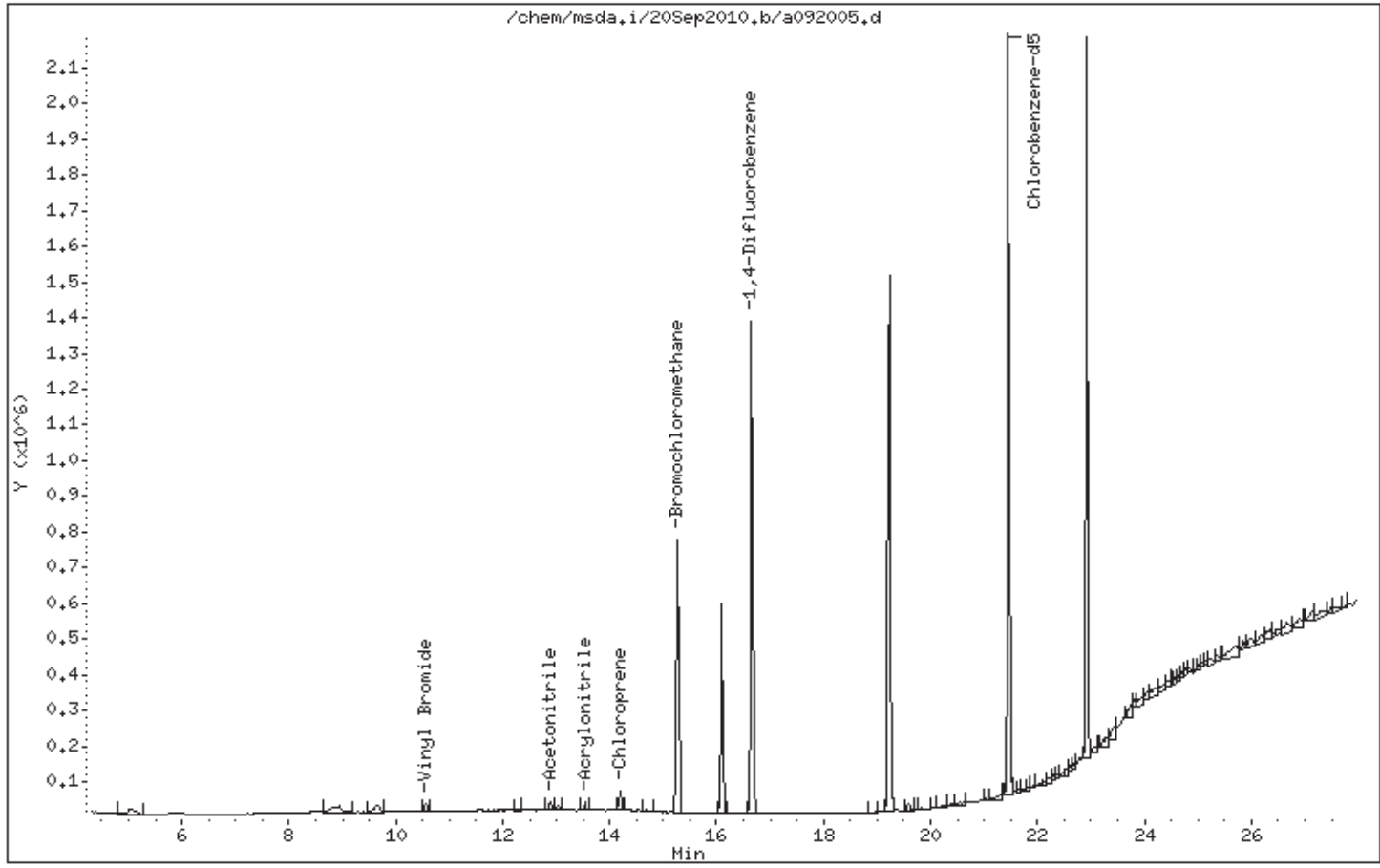
Instrument: msda,i

Sample Info: 25mL #1936-323

Operator: ej

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091511.d
 Lab Smp Id: ICAL Client Smp ID: Level 6
 Inj Date : 15-SEP-2010 14:42
 Operator : db Inst ID: msda.i
 Smp Info : 62.5ml #1936-333
 Misc Info : 0.5ppbv (2.0ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 16:06 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 14:42 Cal File: a091511.d
 Als bottle: 2 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	421125	10.0000		70.00-	130.00	100.00
15.255	15.255	(1.000)	128	320218			0.00-	30.00	76.04
15.255	15.255	(1.000)	49	533133			0.00-	30.00	126.60

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1719377	10.0000		70.00-	130.00	100.00
16.647	16.647	(1.000)	88	279010			0.00-	30.00	16.23

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1559016	10.0000		70.00-	130.00	100.00
21.456	21.456	(1.000)	82	901948			0.00-	30.00	57.85

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	587036	10.0000	9.590	70.00-	130.00	100.00
16.098	16.098	(1.055)	67	315109			0.00-	30.00	53.68

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1722245	10.0000	9.835	70.00-	130.00	100.00
19.234	19.234	(1.155)	70	200973			0.00-	30.00	11.67

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1149448			36.45- 96.45	66.74	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	775101	10.0000	9.730	70.00- 130.00	100.00	
22.934	22.934	(1.069)	95	1030608			102.74- 162.74	132.96	
22.934	22.934	(1.069)	176	750474			66.81- 126.81	96.82	

2 Propylene CAS #: 115-07-1									
4.770	4.770	(0.313)	41	20905	0.50000	0.5081	70.00- 130.00	100.00	
4.745	4.745	(0.311)	42	11947			0.00- 30.00	57.15	
4.770	4.770	(0.313)	39	16663			0.00- 30.00	79.71	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.276	5.276	(0.346)	85	75770	0.50000	0.4479	70.00- 130.00	100.00(a)	
5.300	5.300	(0.347)	87	23054			2.29- 62.29	30.43	

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	47165	0.50000	0.4212	70.00- 130.00	100.00(a)	
6.722	6.722	(0.441)	137	14797			0.00- 30.00	31.37	

7 Chloromethane CAS #: 74-87-3									
7.035	7.035	(0.461)	50	23674	0.50000	0.4485	70.00- 130.00	100.00(a)	
7.035	7.035	(0.461)	52	8565			0.00- 30.00	36.18	

9 Butane CAS #: 106-97-8									
7.761	7.761	(0.509)	58	6145	0.50000	0.4989	70.00- 130.00	100.00(a)	
7.761	7.761	(0.509)	43	36887			0.00- 30.00	600.28	

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	27872	0.50000	0.4514	70.00- 130.00	100.00(a)	
7.883	7.883	(0.517)	64	9806			1.85- 61.85	35.18	

11 1,3-Butadiene CAS #: 106-99-0									
8.126	8.126	(0.533)	54	19449	0.50000	0.4549	70.00- 130.00	100.00(a)	
8.126	8.126	(0.533)	39	20463			0.00- 30.00	105.21	

12 Bromomethane CAS #: 74-83-9									
9.542	9.542	(0.626)	94	13139	0.50000	0.3944	70.00- 130.00	100.00(a)	
9.542	9.542	(0.626)	96	13106			61.29- 121.29	99.75	

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	10373	0.50000	0.3739	70.00- 130.00	100.00(a)	
9.998	9.998	(0.655)	66	4183			0.00- 30.00	40.33	

14 Isopentane CAS #: 78-78-4									
10.143	10.143	(0.665)	57	21900	0.50000	0.4776	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)									
10.143	10.143	(0.665)	43	31706			0.00-	30.00	144.78
10.143	10.143	(0.665)	42	28274			0.00-	30.00	129.11

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	68308	0.50000	0.4342	70.00-	130.00	100.00(a)
10.724	10.724	(0.703)	103	42763			34.52-	94.52	62.60

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	10143	0.50000	0.5376	70.00-	130.00	100.00
11.553	11.553	(0.757)	43	2481			0.00-	30.00	24.46
11.553	11.553	(0.757)	46	3843			0.00-	30.00	37.89

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	43574	0.50000	0.4409	70.00-	130.00	100.00(a)
12.009	12.009	(0.787)	153	28470			34.75-	94.75	65.34
12.009	12.009	(0.787)	101	57723			0.00-	30.00	132.47

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	16132	0.50000	0.4397	70.00-	130.00	100.00(a)
12.030	12.030	(0.789)	61	41092			0.00-	30.00	254.72
12.030	12.030	(0.789)	96	26988			0.00-	30.00	167.29

24 Acetone CAS #: 67-64-1									
12.279	12.279	(0.805)	58	13600	0.50000	0.5435	70.00-	130.00	100.00
12.279	12.279	(0.805)	43	41016			0.00-	30.00	301.59

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	75337	0.50000	0.4558	70.00-	130.00	100.00(a)

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	9520	0.50000	0.4574	70.00-	130.00	100.00(a)
12.776	12.776	(0.837)	41	24909			0.00-	30.00	261.65

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	39482	0.50000	0.4179	70.00-	130.00	100.00(a)
12.589	12.589	(0.825)	43	8368			0.00-	30.00	21.19
12.569	12.569	(0.824)	59	2105			0.00-	30.00	5.33

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	26094	0.50000	0.4705	70.00-	130.00	100.00
13.037	13.037	(0.855)	49	30306			0.00-	30.00	116.14
13.037	13.037	(0.855)	51	9636			0.00-	30.00	36.93

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	48934	0.50000	0.4460	70.00-	130.00	100.00(a)

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	14949			0.00-	30.00	30.55
13.229	13.229	(0.867)	57	5373			0.00-	30.00	10.98

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	76336	0.50000	0.4168	70.00-	130.00	100.00(a)
13.367	13.367	(0.876)	57	17766			0.00-	30.00	23.27
13.367	13.367	(0.876)	41	18664			0.00-	30.00	24.45

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.421	13.421	(0.880)	98	17785	0.50000	0.4181	70.00-	130.00	100.00(a)
13.421	13.421	(0.880)	61	41975			0.00-	30.00	236.01
13.421	13.421	(0.880)	96	29035			0.00-	30.00	163.26

40 Hexane CAS #: 110-54-3									
13.723	13.723	(0.900)	57	43995	0.50000	0.4303	70.00-	130.00	100.00(a)
13.723	13.723	(0.900)	43	26530			0.00-	30.00	60.30
13.723	13.723	(0.900)	86	8352			0.00-	30.00	18.98

41 Isopropyl ether CAS #: 108-20-3									
14.080	14.080	(0.923)	45	89772	0.50000	0.4492	70.00-	130.00	100.00(a)
14.080	14.080	(0.923)	87	27018			0.00-	30.00	30.10
14.080	14.080	(0.923)	59	11756			0.00-	30.00	13.10

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	51862	0.50000	0.4370	70.00-	130.00	100.00(a)
14.108	14.108	(0.925)	65	16530			0.00-	30.00	31.87

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	6811	0.50000	0.4163	70.00-	130.00	100.00(a)
14.135	14.135	(0.927)	42	7820			0.00-	30.00	114.81
14.135	14.135	(0.927)	43	80689			0.00-	30.00	1184.69

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	83381	0.50000	0.4368	70.00-	130.00	100.00(a)
14.562	14.562	(0.955)	87	35790			0.00-	30.00	42.92
14.562	14.562	(0.955)	41	18133			0.00-	30.00	21.75

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	13804	0.50000	0.3998	70.00-	130.00	100.00(a)
14.915	14.915	(0.978)	43	50256			0.00-	30.00	364.07
14.915	14.915	(0.978)	57	4675			0.00-	30.00	33.87

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	18111	0.50000	0.4201	70.00-	130.00	100.00(a)
14.915	14.915	(0.978)	61	37001			0.00-	30.00	204.30

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
47 cis-1,2-Dichloroethene (continued)									
14.915	14.915	(0.978)	96	30004			128.14- 188.14	165.67	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	30757	0.50000	0.4651	70.00- 130.00	100.00(a)	
15.255	15.255	(1.000)	71	13309			0.00- 30.00	43.27	
15.255	15.255	(1.000)	72	13859			0.00- 30.00	45.06	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	59680	0.50000	0.4443	70.00- 130.00	100.00(a)	
15.317	15.317	(1.004)	85	37306			0.00- 30.00	62.51	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.594	15.594	(1.022)	97	56907	0.50000	0.4148	70.00- 130.00	100.00(a)	
15.594	15.594	(1.022)	99	37135			0.00- 30.00	65.26	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	41102	0.50000	0.4239	70.00- 130.00	100.00(a)	
15.594	15.594	(1.022)	56	45664			0.00- 30.00	111.10	
15.594	15.594	(1.022)	41	24421			0.00- 30.00	59.42	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	56700	0.50000	0.4056	70.00- 130.00	100.00(a)	
15.779	15.779	(1.034)	117	57061			0.00- 30.00	100.64	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	45084	0.50000	0.4065	70.00- 130.00	100.00(a)	
16.043	16.043	(1.052)	57	130281			0.00- 30.00	288.97	
16.043	16.043	(1.052)	41	35839			0.00- 30.00	79.49	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	95109	0.50000	0.4436	70.00- 130.00	100.00(a)	
16.098	16.098	(0.967)	77	22248			0.00- 30.00	23.39	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	18970	0.50000	0.4293	70.00- 130.00	100.00(a)	
16.153	16.153	(0.970)	73	78464			0.00- 30.00	413.62	
16.153	16.153	(0.970)	55	24499			0.00- 30.00	129.15	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	41678	0.50000	0.4564	70.00- 130.00	100.00(a)	
16.208	16.208	(0.974)	64	13184			0.00- 30.00	31.63	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	26565	0.50000	0.4421	70.00- 130.00	100.00(a)	
16.290	16.290	(0.979)	100	10287			0.00- 30.00	38.72	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	47443			0.00-	30.00	178.59

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	38750	0.50000	0.4192	70.00-	130.00	100.00(a)
17.059	17.059	(1.025)	95	38851			0.00-	30.00	100.26
17.059	17.059	(1.025)	97	24681			0.00-	30.00	63.69

69 Methylcyclohexane CAS #: 108-87-2									
17.334	17.334	(1.041)	83	53452	0.50000	0.4378	70.00-	130.00	100.00(a)
17.334	17.334	(1.041)	98	25733			0.00-	30.00	48.14
17.334	17.334	(1.041)	55	43324			0.00-	30.00	81.05

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	32562	0.50000	0.4372	70.00-	130.00	100.00(a)
17.526	17.526	(1.053)	62	23256			0.00-	30.00	71.42
17.526	17.526	(1.053)	41	19554			25.72-	85.72	60.05

74 1,4-Dioxane CAS #: 123-91-1									
17.663	17.663	(1.061)	88	21544	0.50000	0.4430	70.00-	130.00	100.00(a)
17.663	17.663	(1.061)	58	15188			0.00-	30.00	70.50
17.663	17.663	(1.061)	57	5372			0.00-	30.00	24.94

76 Bromodichloromethane CAS #: 75-27-4									
17.965	17.965	(1.079)	83	54962	0.50000	0.4060	70.00-	130.00	100.00(a)
17.938	17.938	(1.078)	85	35103			0.00-	30.00	63.87

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	44185	0.50000	0.4040	70.00-	130.00	100.00(a)
18.786	18.786	(1.128)	77	14932			0.00-	30.00	33.79
18.786	18.786	(1.128)	39	23091			16.72-	76.72	52.26

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	58148	0.50000	0.4117	70.00-	130.00	100.00(a)
18.987	18.987	(1.141)	58	24044			0.00-	30.00	41.35
18.987	18.987	(1.141)	85	11286			0.00-	30.00	19.41

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	102369	0.50000	0.4281	70.00-	130.00	100.00(a)
19.346	19.346	(1.162)	92	63021			0.00-	30.00	61.56

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	43491	0.50000	0.3947	70.00-	130.00	100.00(a)
19.749	19.749	(0.920)	77	14062			0.00-	30.00	32.33
19.749	19.749	(0.920)	39	22170			14.90-	74.90	50.98

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.069	20.069	(0.935)	97	34359	0.50000	0.4223	70.00- 130.00	100.00(a)	
20.069	20.069	(0.935)	99	22516			0.00- 30.00	65.53	
20.036	20.036	(0.934)	83	30104			54.89- 114.89	87.62	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	48056	0.50000	0.4306	70.00- 130.00	100.00(a)	
20.199	20.199	(0.941)	129	36906			0.00- 30.00	76.80	
20.199	20.199	(0.941)	131	34919			0.00- 30.00	72.66	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	29929	0.50000	0.4022	70.00- 130.00	100.00(a)	
20.329	20.329	(0.947)	43	51940			0.00- 30.00	173.54	
20.329	20.329	(0.947)	100	6813			0.00- 30.00	22.76	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	46470	0.50000	0.3777	70.00- 130.00	100.00(a)	
20.654	20.654	(0.963)	127	37121			0.00- 30.00	79.88	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	51616	0.50000	0.4113	70.00- 130.00	100.00(a)	
20.881	20.881	(0.973)	109	48494			0.00- 30.00	93.95	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	80656	0.50000	0.4351	70.00- 130.00	100.00(a)	
21.504	21.504	(1.002)	114	25355			0.00- 30.00	31.44	
21.504	21.504	(1.002)	77	66720			34.50- 94.50	82.72	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	37632	0.50000	0.4229	70.00- 130.00	100.00(a)	
21.576	21.576	(1.006)	91	115702			0.00- 30.00	307.46	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	39473	0.50000	0.4218	70.00- 130.00	100.00(a)	
21.721	21.721	(1.012)	91	76854			0.00- 30.00	194.70	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	36419	0.50000	0.4082	70.00- 130.00	100.00(a)	
22.251	22.251	(1.037)	91	73165			0.00- 30.00	200.90	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	56164	0.50000	0.3985	70.00- 130.00	100.00(a)	
22.275	22.275	(1.038)	78	30291			0.00- 30.00	53.93	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	40731	0.50000	0.3684	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	20713			0.00- 30.00	50.85	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	105965	0.50000	0.4020	70.00- 130.00	100.00(a)	
22.676	22.676	(1.057)	120	28796			0.00- 30.00	27.18	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	71571	0.50000	0.4157	70.00- 130.00	100.00(a)	
23.063	23.063	(1.075)	85	46112			0.00- 30.00	64.43	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	98372	0.50000	0.3962	70.00- 130.00	100.00(a)	
23.140	23.140	(1.078)	120	22923			0.00- 30.00	23.30	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	71536	0.50000	0.3753	70.00- 130.00	100.00(a)	
23.269	23.269	(1.085)	120	21800			0.00- 30.00	30.47	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	58001	0.50000	0.3870	70.00- 130.00	100.00(a)	
23.321	23.321	(1.087)	120	27666			0.00- 30.00	47.70	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	39345	0.50000	0.3679	70.00- 130.00	100.00(a)	
23.759	23.759	(1.107)	120	18183			0.00- 30.00	46.21	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	49581	0.50000	0.3786	70.00- 130.00	100.00(a)	
24.120	24.120	(1.124)	148	30793			0.00- 30.00	62.11	
24.120	24.120	(1.124)	111	21340			0.00- 30.00	43.04	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	43918	0.50000	0.3644	70.00- 130.00	100.00(a)	
24.223	24.223	(1.129)	148	26175			0.00- 30.00	59.60	
24.223	24.223	(1.129)	111	17130			0.00- 30.00	39.00	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	66702	0.50000	0.3659	70.00- 130.00	100.00(a)	
24.352	24.352	(1.135)	126	14163			0.00- 30.00	21.23	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	43394	0.50000	0.3905	70.00- 130.00	100.00(a)	
24.636	24.636	(1.148)	148	27008			33.90- 93.90	62.24	
24.636	24.636	(1.148)	111	17418			12.45- 72.45	40.14	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	13487	0.50000	0.3836	70.00- 130.00	100.00	(a)
26.338	26.338	(1.228)	182	13621			0.00- 30.00	100.99	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	21903	0.50000	0.4019	70.00- 130.00	100.00	(a)
26.416	26.416	(1.231)	223	13717			0.00- 30.00	62.63	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	31093	0.50000	0.5100	70.00- 130.00	100.00	
26.674	26.674	(1.243)	127	4687			0.00- 30.00	15.07	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091511.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 6
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m	
Misc Info: 0.5ppbv (2.0ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	421125	1.34
66 1,4-Difluorobenze	1700376	1020226	2380526	1719377	1.12
88 Chlorobenzene-d5	1561316	936790	2185842	1559016	-0.15

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 15-SEP-2010 14:42

Client ID: Level 6

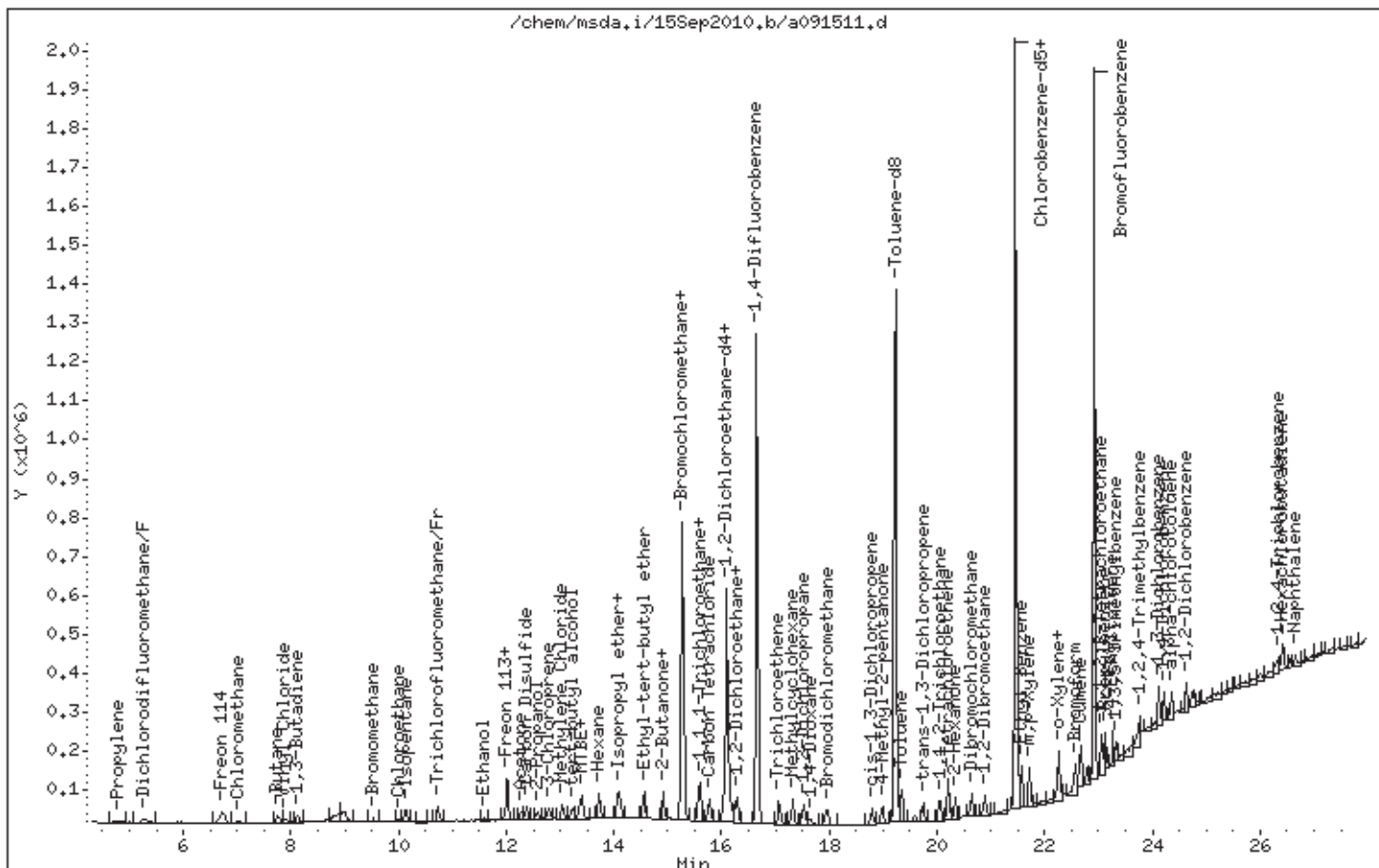
Instrument: msda.i

Sample Info: 62.5ml #1936-333

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092015.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 20-SEP-2010 20:09
Operator : ea Inst ID: msda.i
Smp Info : 250mL #1936-321
Misc Info : 2.0ppbv (2ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Nonane.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	423096	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	329106				48.35- 108.35	77.79
15.255	15.255	(1.000)	49	501977				89.31- 149.31	118.64

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1773009	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	286890				0.00- 46.24	16.18

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1614920	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	905906				25.95- 85.95	56.10

90 Nonane CAS #: 111-84-2									
21.576	21.576	(1.006)	43	106896	2.00000	2.093		0.00- 30.00	100.00
21.576	21.576	(1.006)	57	93547				0.00- 30.00	87.51
21.576	21.576	(1.006)	85	40684				0.00- 30.00	38.06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092015.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/20Sep2010.b/a1010915a.m
Misc Info: 2.0ppbv (2ppbv)

Calibration Date: 20-SEP-2010
Calibration Time: 10:29
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	471799	283079	660519	423096	-10.32
66 1,4-Difluorobenze	1948064	1168838	2727290	1773009	-8.99
88 Chlorobenzene-d5	1784561	1070737	2498385	1614920	-9.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 20-SEP-2010 20:09

Client ID: Level 7

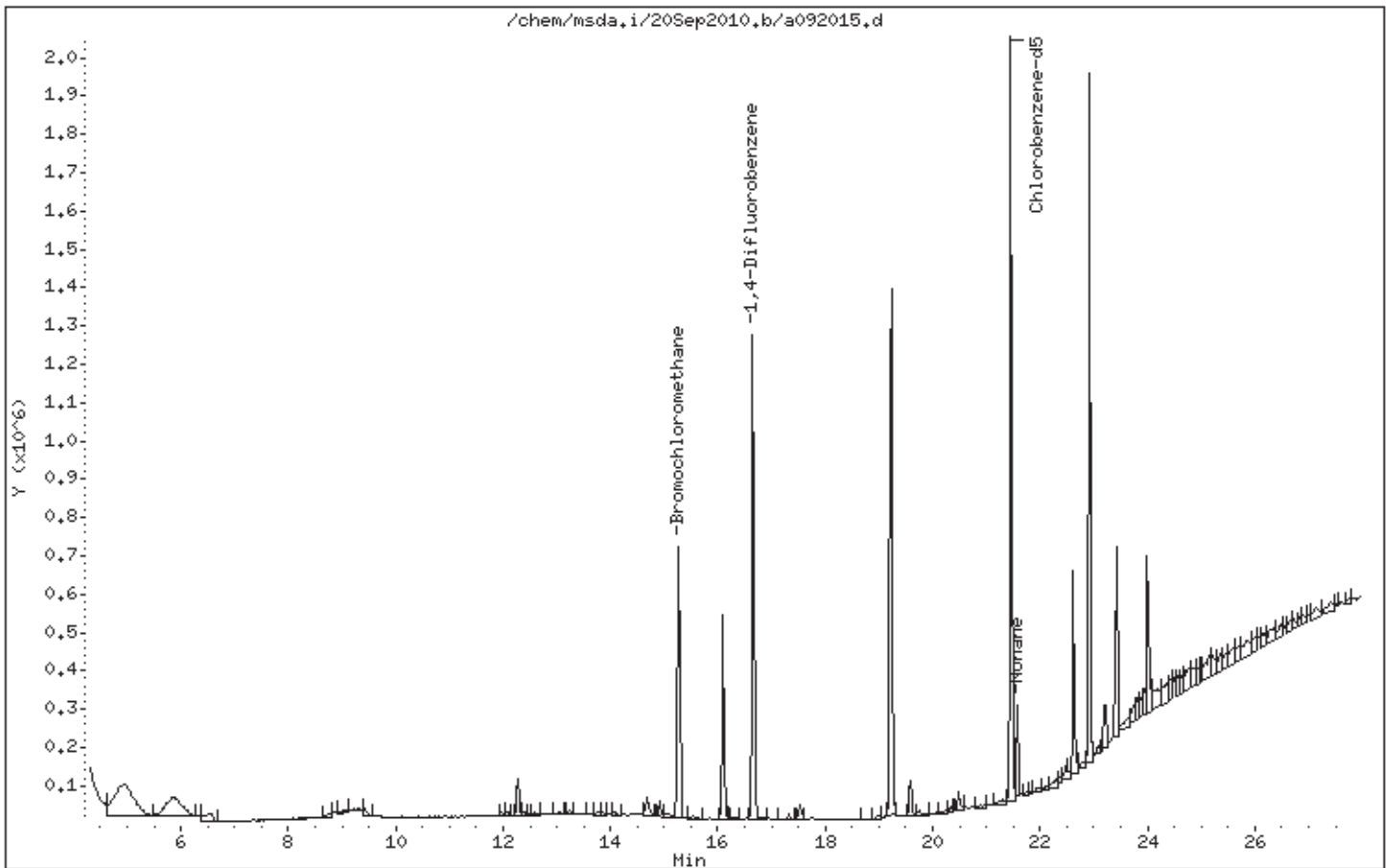
Instrument: msda.i

Sample Info: 250mL #1936-321

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092011.d
 Lab Smp Id: ICAL Client Smp ID: Level 7
 Inj Date : 20-SEP-2010 17:00
 Operator : ea Inst ID: msda.i
 Smp Info : 100mL #1936-317
 Misc Info : 2.0ppbv (5ppbv)
 Comment :
 Method : /chem/msda.i/20Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 17:00 Cal File: a092011.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: spAT1.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	443928	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	344068				47.34- 107.34	77.51
15.255	15.255	(1.000)	49	523652				87.98- 147.98	117.96

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1888560	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	305637				0.00- 45.99	16.18

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1736579	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	966922				26.23- 86.23	55.68

1 Freon134a CAS #: 811-97-2									
4.577	4.577	(0.300)	83	69362	2.00000	1.841		0.00- 30.00	100.00
4.577	4.577	(0.300)	69	63416				0.00- 30.00	91.43

3 Freon 152A CAS #: 75-37-6									
5.059	5.059	(0.332)	65	44826	2.00000	1.769		0.00- 30.00	100.00
5.059	5.059	(0.332)	51	74007				0.00- 30.00	165.10

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
5 Freon 22						CAS #: 75-45-6			
5.806	5.806	(0.381)	51	106837	2.00000	1.846	0.00-	30.00	100.00
5.830	5.830	(0.382)	67	21305			0.00-	30.00	19.94
5.806	5.806	(0.381)	85	2211			0.00-	30.00	2.07

58 1,1-Dichloropropene						CAS #: 563-58-6			
15.810	15.810	(1.036)	110	71164	2.00000	1.826	0.00-	30.00	100.00
15.810	15.810	(1.036)	75	198488			0.00-	30.00	278.92

92 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6			
21.600	21.600	(1.007)	131	193357	2.00000	1.883	0.00-	30.00	100.00
21.600	21.600	(1.007)	117	130685			0.00-	30.00	67.59
21.600	21.600	(1.007)	95	72435			0.00-	30.00	37.46

105 1,2,3-Trichloropropane						CAS #: 96-18-4			
23.166	23.166	(1.080)	110	101067	2.00000	1.870	0.00-	30.00	100.00
23.166	23.166	(1.080)	75	278255			0.00-	30.00	275.32
23.166	23.166	(1.080)	61	65150			0.00-	30.00	64.46

108 2-Chlorotoluene						CAS #: 95-49-8			
23.295	23.295	(1.086)	126	112926	2.00000	1.923	0.00-	30.00	100.00
23.295	23.295	(1.086)	91	330328			0.00-	30.00	292.52
23.295	23.295	(1.086)	65	29430			0.00-	30.00	26.06

110 4-Chlorotoluene						CAS #: 106-43-4			
23.424	23.424	(1.092)	126	100856	2.00000	1.881	0.00-	30.00	100.00
23.424	23.424	(1.092)	91	293021			0.00-	30.00	290.53
23.424	23.424	(1.092)	63	36416			0.00-	30.00	36.11

111 tert-Butylbenzene						CAS #: 98-06-6			
23.682	23.682	(1.104)	119	270533	2.00000	1.984	0.00-	30.00	100.00
23.682	23.682	(1.104)	134	71160			0.00-	30.00	26.30
23.682	23.682	(1.104)	91	178987			0.00-	30.00	66.16

113 sec-Butylbenzene						CAS #: 135-98-8			
23.914	23.914	(1.115)	105	370653	2.00000	1.953	0.00-	30.00	100.00
23.914	23.914	(1.115)	134	73738			0.00-	30.00	19.89
23.914	23.914	(1.115)	91	59136			0.00-	30.00	15.95

114 p-Cymene						CAS #: 99-87-6			
24.069	24.069	(1.122)	119	243494	2.00000	1.941	0.00-	30.00	100.00
24.069	24.069	(1.122)	134	63895			0.00-	30.00	26.24
24.043	24.043	(1.121)	91	55981			0.00-	30.00	22.99

116 1,2,3-trimethylbenzene						CAS #: 526-73-8			
24.223	24.223	(1.129)	120	82542	2.00000	1.885	0.00-	30.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
116 1,2,3-trimethylbenzene (continued)									
24.223	24.223	(1.129)	105	192315			0.00-	30.00	232.99
24.223	24.223	(1.129)	77	24176			0.00-	30.00	29.29

120 Butylbenzene CAS #: 104-51-8									
24.481	24.481	(1.141)	134	51029	2.00000	1.922	0.00-	30.00	100.00
24.481	24.481	(1.141)	91	180628			0.00-	30.00	353.97
24.481	24.481	(1.141)	92	97110			0.00-	30.00	190.30

124 1,2-dibromo-3-chloropropane CAS #: 96-12-8									
25.461	25.461	(1.187)	157	141551	2.00000	2.050	0.00-	30.00	100.00
25.461	25.461	(1.187)	75	124132			0.00-	30.00	87.69
25.461	25.461	(1.187)	155	106701			0.00-	30.00	75.38

Date : 20-SEP-2010 17:00

Client ID: Level 7

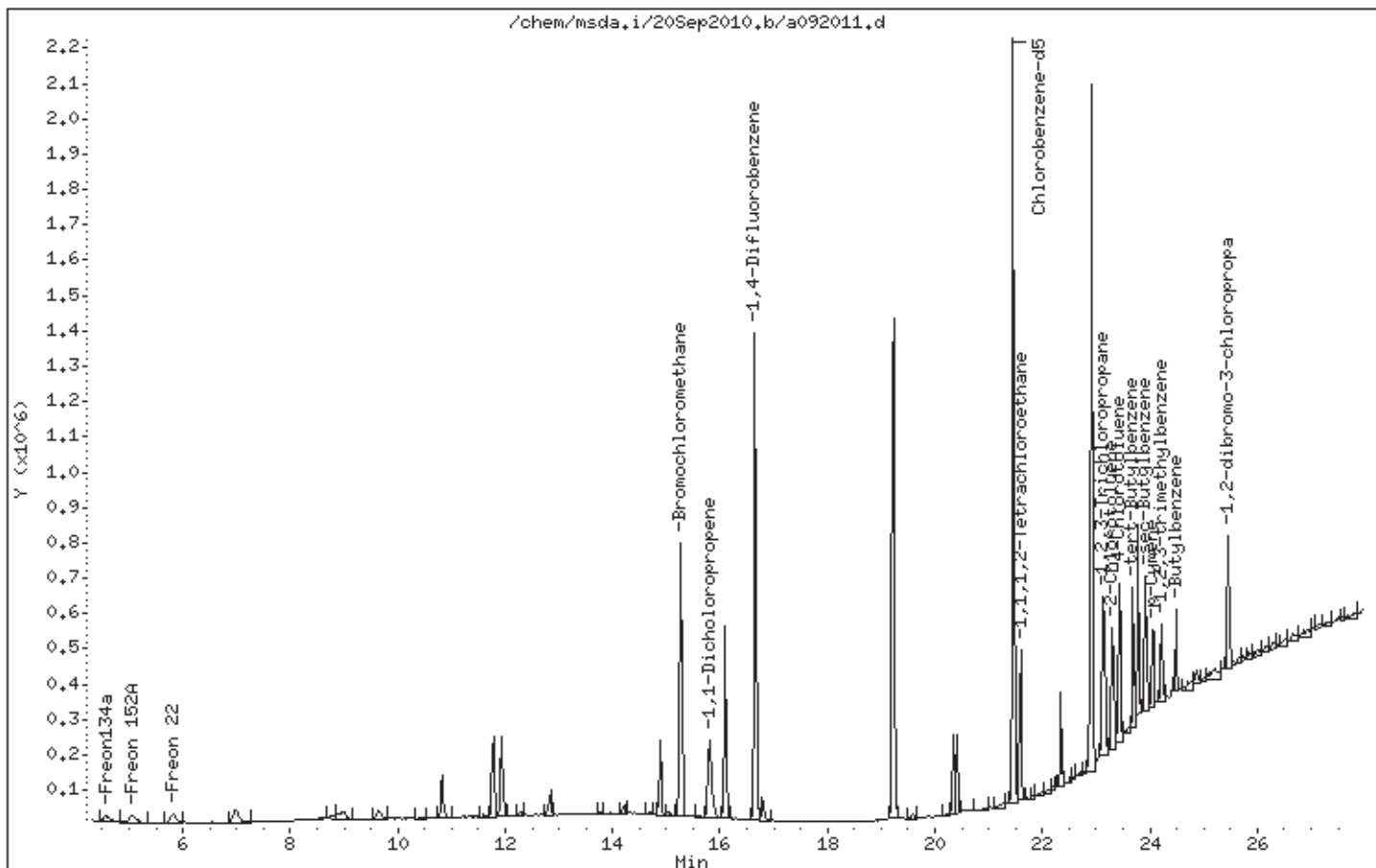
Instrument: msda.i

Sample Info: 100mL #1936-317

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092008.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 20-SEP-2010 14:46
Operator : ej Inst ID: msda.i
Smp Info : 100mL #1936-323
Misc Info : 2.0ppbv (5ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 17:00 Cal File: a092011.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	455677	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	355536				47.34- 107.34	78.02
15.255	15.255	(1.000)	49	537823				87.98- 147.98	118.03

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1913513	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	308986				0.00- 45.99	16.15

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1744926	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	974640				26.23- 86.23	55.86

15 Vinyl Bromide CAS #: 593-60-2									
10.558	10.558	(0.692)	106	102439	2.00000	1.996		70.00- 130.00	100.00
10.558	10.558	(0.692)	108	96362				64.72- 124.72	94.07

31 Acetonitrile CAS #: 75-05-8									
12.900	12.900	(0.846)	40	79603	2.00000	1.984		70.00- 130.00	100.00
12.900	12.900	(0.846)	41	156258				161.35- 221.35	196.30

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
31 Acetonitrile (continued)									
12.900	12.900	(0.846)	39	31437			9.43- 69.43	39.49	

37 Acrylonitrile CAS #: 107-13-1									
13.531	13.531	(0.887)	53	97986	2.00000	2.004	70.00- 130.00	100.00	
13.531	13.531	(0.887)	52	76146			51.80- 111.80	77.71	

43 Chloroprene CAS #: 126-99-8									
14.190	14.190	(0.930)	53	157938	2.00000	1.974	70.00- 130.00	100.00	
14.190	14.190	(0.930)	88	105285			34.80- 94.80	66.66	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092008.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ej
Method File: /chem/msda.i/20Sep2010.b/a1010915a.m
Misc Info: 2.0ppbv (5ppbv)

Calibration Date: 20-SEP-2010
Calibration Time: 10:29
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	471799	283079	660519	455677	-3.42
66 1,4-Difluorobenze	1948064	1168838	2727290	1913513	-1.77
88 Chlorobenzene-d5	1784561	1070737	2498385	1744926	-2.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 20-SEP-2010 14:46

Client ID: Level 7

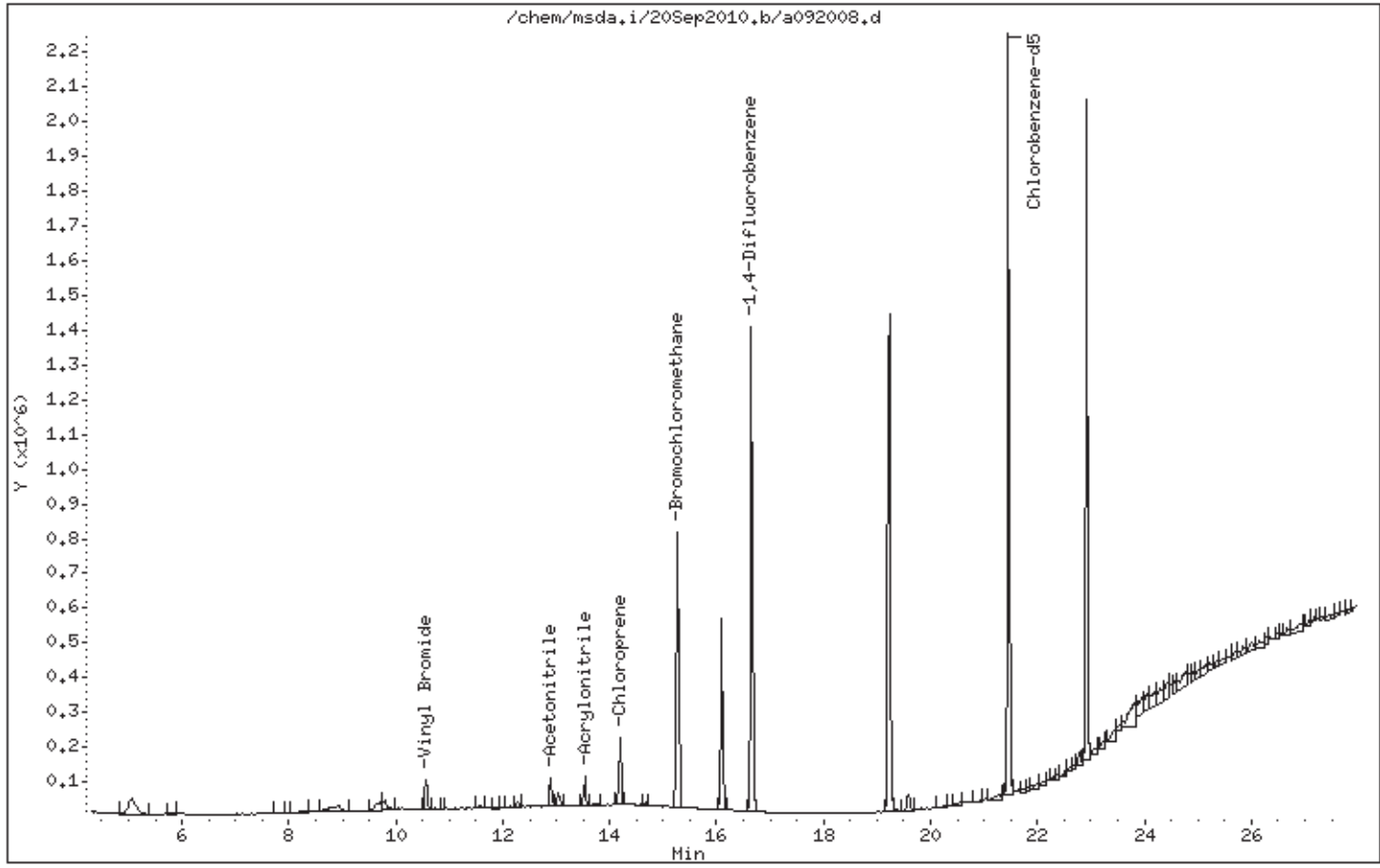
Instrument: msda.i

Sample Info: 100mL #1936-323

Operator: ej

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091512.d
 Lab Smp Id: ICAL Client Smp ID: Level 7
 Inj Date : 15-SEP-2010 15:30
 Operator : db Inst ID: msda.i
 Smp Info : 250ml #1936-333
 Misc Info : 2.0ppbv (2.0ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 16:07 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 15:30 Cal File: a091512.d
 Als bottle: 2 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	424801	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	328527				0.00- 30.00	77.34
15.255	15.255	(1.000)	49	553260				0.00- 30.00	130.24

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1687071	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	276709				0.00- 30.00	16.40

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1553869	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	906302				0.00- 30.00	58.33

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	586876	10.0000	9.505		70.00- 130.00	100.00
16.098	16.098	(1.055)	67	316582				0.00- 30.00	53.94

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1730217	10.0000	10.069		70.00- 130.00	100.00
19.234	19.234	(1.155)	70	197707				0.00- 30.00	11.43

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1153107			36.45- 96.45	66.65	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	788104	10.0000	9.926	70.00- 130.00	100.00	
22.934	22.934	(1.069)	95	1046203			102.74- 162.74	132.75	
22.934	22.934	(1.069)	176	763483			66.81- 126.81	96.88	

2 Propylene CAS #: 115-07-1									
4.770	4.770	(0.313)	41	82413	2.00000	1.986	70.00- 130.00	100.00	
4.794	4.794	(0.314)	42	48045			0.00- 30.00	58.30	
4.770	4.770	(0.313)	39	54574			0.00- 30.00	66.22	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.300	5.300	(0.347)	85	302508	2.00000	1.773	70.00- 130.00	100.00	
5.276	5.276	(0.346)	87	99304			2.29- 62.29	32.83	

6 Freon 114 CAS #: 76-14-2									
6.746	6.746	(0.442)	135	199991	2.00000	1.771	70.00- 130.00	100.00	
6.746	6.746	(0.442)	137	64037			0.00- 30.00	32.02	

7 Chloromethane CAS #: 74-87-3									
7.035	7.035	(0.461)	50	91595	2.00000	1.720	70.00- 130.00	100.00	
7.035	7.035	(0.461)	52	32474			0.00- 30.00	35.45	

9 Butane CAS #: 106-97-8									
7.779	7.779	(0.510)	58	22691	2.00000	1.826	70.00- 130.00	100.00	
7.779	7.779	(0.510)	43	146881			0.00- 30.00	647.31	

10 Vinyl Chloride CAS #: 75-01-4									
7.900	7.900	(0.518)	62	107302	2.00000	1.723	70.00- 130.00	100.00	
7.900	7.900	(0.518)	64	35394			1.85- 61.85	32.99	

11 1,3-Butadiene CAS #: 106-99-0									
8.126	8.126	(0.533)	54	74221	2.00000	1.721	70.00- 130.00	100.00	
8.126	8.126	(0.533)	39	74176			0.00- 30.00	99.94	

12 Bromomethane CAS #: 74-83-9									
9.542	9.542	(0.626)	94	53772	2.00000	1.600	70.00- 130.00	100.00	
9.542	9.542	(0.626)	96	50305			61.29- 121.29	93.55	

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	50371	2.00000	1.800	70.00- 130.00	100.00	
9.998	9.998	(0.655)	66	17227			0.00- 30.00	34.20	

14 Isopentane CAS #: 78-78-4									
10.143	10.143	(0.665)	57	83359	2.00000	1.802	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
14 Isopentane (continued)									
10.143	10.143	(0.665)	43	119427			0.00- 30.00	143.27	
10.143	10.143	(0.665)	42	105136			0.00- 30.00	126.12	

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.745	10.745	(0.704)	101	274433	2.00000	1.729	70.00- 130.00	100.00	
10.745	10.745	(0.704)	103	178907			34.52- 94.52	65.19	

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	35934	2.00000	1.888	70.00- 130.00	100.00	
11.574	11.574	(0.759)	43	8724			0.00- 30.00	24.28	
11.553	11.553	(0.757)	46	13850			0.00- 30.00	38.54	

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	173193	2.00000	1.737	70.00- 130.00	100.00	
12.030	12.030	(0.789)	153	111370			34.75- 94.75	64.30	
12.009	12.009	(0.787)	101	226906			0.00- 30.00	131.01	

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	65493	2.00000	1.770	70.00- 130.00	100.00	
12.030	12.030	(0.789)	61	169029			0.00- 30.00	258.09	
12.030	12.030	(0.789)	96	105935			0.00- 30.00	161.75	

24 Acetone CAS #: 67-64-1									
12.278	12.278	(0.805)	58	54230	2.00000	2.148	70.00- 130.00	100.00	
12.278	12.278	(0.805)	43	161563			0.00- 30.00	297.92	

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	315446	2.00000	1.892	70.00- 130.00	100.00	

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	31777	2.00000	1.514	70.00- 130.00	100.00	
12.776	12.776	(0.837)	41	88455			0.00- 30.00	278.36	

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	156264	2.00000	1.640	70.00- 130.00	100.00	
12.569	12.569	(0.824)	43	33841			0.00- 30.00	21.66	
12.569	12.569	(0.824)	59	6721			0.00- 30.00	4.30	

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	101521	2.00000	1.815	70.00- 130.00	100.00	
13.037	13.037	(0.855)	49	123915			0.00- 30.00	122.06	
13.037	13.037	(0.855)	51	37773			0.00- 30.00	37.21	

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	187903	2.00000	1.698	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	54760			0.00-	30.00	29.14
13.229	13.229	(0.867)	57	19694			0.00-	30.00	10.48

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	304130	2.00000	1.646	70.00-	130.00	100.00
13.367	13.367	(0.876)	57	68674			0.00-	30.00	22.58
13.367	13.367	(0.876)	41	73681			0.00-	30.00	24.23

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.421	13.421	(0.880)	98	72388	2.00000	1.687	70.00-	130.00	100.00
13.421	13.421	(0.880)	61	158454			0.00-	30.00	218.90
13.421	13.421	(0.880)	96	114987			0.00-	30.00	158.85

40 Hexane CAS #: 110-54-3									
13.723	13.723	(0.900)	57	175233	2.00000	1.699	70.00-	130.00	100.00
13.723	13.723	(0.900)	43	111297			0.00-	30.00	63.51
13.723	13.723	(0.900)	86	33463			0.00-	30.00	19.10

41 Isopropyl ether CAS #: 108-20-3									
14.080	14.080	(0.923)	45	357400	2.00000	1.773	70.00-	130.00	100.00
14.080	14.080	(0.923)	87	105829			0.00-	30.00	29.61
14.080	14.080	(0.923)	59	43956			0.00-	30.00	12.30

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	201564	2.00000	1.684	70.00-	130.00	100.00
14.108	14.108	(0.925)	65	64613			0.00-	30.00	32.06

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	27869	2.00000	1.688	70.00-	130.00	100.00
14.135	14.135	(0.927)	42	31013			0.00-	30.00	111.28
14.135	14.135	(0.927)	43	419263			0.00-	30.00	1504.41

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	336485	2.00000	1.747	70.00-	130.00	100.00
14.562	14.562	(0.955)	87	146455			0.00-	30.00	43.52
14.562	14.562	(0.955)	41	67946			0.00-	30.00	20.19

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	58553	2.00000	1.681	70.00-	130.00	100.00
14.915	14.915	(0.978)	43	259919			0.00-	30.00	443.90
14.915	14.915	(0.978)	57	16912			0.00-	30.00	28.88

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	72984	2.00000	1.678	70.00-	130.00	100.00
14.915	14.915	(0.978)	61	147316			0.00-	30.00	201.85

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
47 cis-1,2-Dichloroethene (continued)									
14.915	14.915	(0.978)	96	117153			128.14- 188.14	160.52	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	121200	2.00000	1.817	70.00- 130.00	100.00	
15.255	15.255	(1.000)	71	52341			0.00- 30.00	43.19	
15.255	15.255	(1.000)	72	56288			0.00- 30.00	46.44	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	227221	2.00000	1.677	70.00- 130.00	100.00	
15.317	15.317	(1.004)	85	146271			0.00- 30.00	64.37	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.594	15.594	(1.022)	97	232020	2.00000	1.676	70.00- 130.00	100.00	
15.594	15.594	(1.022)	99	148754			0.00- 30.00	64.11	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	162171	2.00000	1.658	70.00- 130.00	100.00	
15.594	15.594	(1.022)	56	180263			0.00- 30.00	111.16	
15.594	15.594	(1.022)	41	98344			0.00- 30.00	60.64	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	221311	2.00000	1.570	70.00- 130.00	100.00	
15.779	15.779	(1.034)	117	228851			0.00- 30.00	103.41	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	178409	2.00000	1.595	70.00- 130.00	100.00	
16.043	16.043	(1.052)	57	526399			0.00- 30.00	295.05	
16.043	16.043	(1.052)	41	141618			0.00- 30.00	79.38	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	362404	2.00000	1.722	70.00- 130.00	100.00	
16.098	16.098	(0.967)	77	86577			0.00- 30.00	23.89	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	77166	2.00000	1.780	70.00- 130.00	100.00	
16.153	16.153	(0.970)	73	318990			0.00- 30.00	413.38	
16.153	16.153	(0.970)	55	95059			0.00- 30.00	123.19	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	157402	2.00000	1.757	70.00- 130.00	100.00	
16.208	16.208	(0.974)	64	51877			0.00- 30.00	32.96	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	104433	2.00000	1.771	70.00- 130.00	100.00	
16.290	16.290	(0.979)	100	48628			0.00- 30.00	46.56	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	189882			0.00-	30.00	181.82

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	156859	2.00000	1.729	70.00-	130.00	100.00
17.059	17.059	(1.025)	95	154311			0.00-	30.00	98.38
17.059	17.059	(1.025)	97	102367			0.00-	30.00	65.26

69 Methylcyclohexane CAS #: 108-87-2									
17.334	17.334	(1.041)	83	221499	2.00000	1.849	70.00-	130.00	100.00
17.334	17.334	(1.041)	98	105393			0.00-	30.00	47.58
17.334	17.334	(1.041)	55	164424			0.00-	30.00	74.23

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	131073	2.00000	1.794	70.00-	130.00	100.00
17.526	17.526	(1.053)	62	92729			0.00-	30.00	70.75
17.526	17.526	(1.053)	41	72091			25.72-	85.72	55.00

74 1,4-Dioxane CAS #: 123-91-1									
17.663	17.663	(1.061)	88	88445	2.00000	1.854	70.00-	130.00	100.00
17.663	17.663	(1.061)	58	59491			0.00-	30.00	67.26
17.663	17.663	(1.061)	57	18613			0.00-	30.00	21.04

76 Bromodichloromethane CAS #: 75-27-4									
17.965	17.965	(1.079)	83	225064	2.00000	1.695	70.00-	130.00	100.00
17.965	17.965	(1.079)	85	143701			0.00-	30.00	63.85

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.785	18.785	(1.128)	75	180563	2.00000	1.682	70.00-	130.00	100.00
18.785	18.785	(1.128)	77	57719			0.00-	30.00	31.97
18.785	18.785	(1.128)	39	87354			16.72-	76.72	48.38

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	246186	2.00000	1.776	70.00-	130.00	100.00
18.987	18.987	(1.141)	58	100745			0.00-	30.00	40.92
18.987	18.987	(1.141)	85	46433			0.00-	30.00	18.86

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	414864	2.00000	1.768	70.00-	130.00	100.00
19.346	19.346	(1.162)	92	246916			0.00-	30.00	59.52

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	185456	2.00000	1.689	70.00-	130.00	100.00
19.749	19.749	(0.920)	77	59247			0.00-	30.00	31.95
19.749	19.749	(0.920)	39	86279			14.90-	74.90	46.52

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.069	20.069	(0.935)	97	147974	2.00000	1.825	70.00- 130.00	100.00	
20.069	20.069	(0.935)	99	88609			0.00- 30.00	59.88	
20.069	20.069	(0.935)	83	124970			54.89- 114.89	84.45	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	195942	2.00000	1.762	70.00- 130.00	100.00	
20.199	20.199	(0.941)	129	148389			0.00- 30.00	75.73	
20.199	20.199	(0.941)	131	144452			0.00- 30.00	73.72	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	132831	2.00000	1.791	70.00- 130.00	100.00	
20.329	20.329	(0.947)	43	242006			0.00- 30.00	182.19	
20.329	20.329	(0.947)	100	29728			0.00- 30.00	22.38	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	211661	2.00000	1.726	70.00- 130.00	100.00	
20.654	20.654	(0.963)	127	163225			0.00- 30.00	77.12	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	222978	2.00000	1.783	70.00- 130.00	100.00	
20.881	20.881	(0.973)	109	207122			0.00- 30.00	92.89	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	324880	2.00000	1.758	70.00- 130.00	100.00	
21.504	21.504	(1.002)	114	104759			0.00- 30.00	32.25	
21.504	21.504	(1.002)	77	221129			34.50- 94.50	68.06	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	156568	2.00000	1.765	70.00- 130.00	100.00	
21.576	21.576	(1.006)	91	483606			0.00- 30.00	308.88	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	161213	2.00000	1.728	70.00- 130.00	100.00	
21.721	21.721	(1.012)	91	317260			0.00- 30.00	196.80	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	153065	2.00000	1.721	70.00- 130.00	100.00	
22.251	22.251	(1.037)	91	315999			0.00- 30.00	206.45	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	234685	2.00000	1.670	70.00- 130.00	100.00	
22.275	22.275	(1.038)	78	119561			0.00- 30.00	50.95	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	184540	2.00000	1.674	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	90798			0.00- 30.00	49.20	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	445643	2.00000	1.696	70.00- 130.00	100.00	
22.676	22.676	(1.057)	120	118908			0.00- 30.00	26.68	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	297194	2.00000	1.732	70.00- 130.00	100.00	
23.063	23.063	(1.075)	85	190919			0.00- 30.00	64.24	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	415873	2.00000	1.680	70.00- 130.00	100.00	
23.140	23.140	(1.078)	120	93530			0.00- 30.00	22.49	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	312465	2.00000	1.644	70.00- 130.00	100.00	
23.269	23.269	(1.085)	120	92791			0.00- 30.00	29.70	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	251992	2.00000	1.687	70.00- 130.00	100.00	
23.321	23.321	(1.087)	120	121365			0.00- 30.00	48.16	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	169172	2.00000	1.587	70.00- 130.00	100.00	
23.759	23.759	(1.107)	120	75013			0.00- 30.00	44.34	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	206408	2.00000	1.581	70.00- 130.00	100.00	
24.120	24.120	(1.124)	148	128416			0.00- 30.00	62.21	
24.120	24.120	(1.124)	111	84878			0.00- 30.00	41.12	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	184400	2.00000	1.535	70.00- 130.00	100.00	
24.223	24.223	(1.129)	148	114627			0.00- 30.00	62.16	
24.223	24.223	(1.129)	111	70689			0.00- 30.00	38.33	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	296791	2.00000	1.634	70.00- 130.00	100.00	
24.352	24.352	(1.135)	126	58514			0.00- 30.00	19.72	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	179693	2.00000	1.623	70.00- 130.00	100.00	
24.636	24.636	(1.148)	148	111080			33.90- 93.90	61.82	
24.636	24.636	(1.148)	111	76803			12.45- 72.45	42.74	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
126 1,2,4-Trichlorobenzene					CAS #: 120-82-1				
26.338	26.338	(1.228)	180	65177	2.00000	1.860	70.00- 130.00	100.00	
26.338	26.338	(1.228)	182	62765			0.00- 30.00	96.30	

128 Hexachlorobutadiene					CAS #: 87-68-3				
26.416	26.416	(1.231)	225	108008	2.00000	1.988	70.00- 130.00	100.00	
26.416	26.416	(1.231)	223	68744			0.00- 30.00	63.65	

129 Naphthalene					CAS #: 91-20-3				
26.648	26.648	(1.242)	128	114636	2.00000	1.886	70.00- 130.00	100.00	
26.648	26.648	(1.242)	127	16972			0.00- 30.00	14.81	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091512.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 7
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m	
Misc Info: 2.0ppbv (2.0ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	424801	2.23
66 1,4-Difluorobenze	1700376	1020226	2380526	1687071	-0.78
88 Chlorobenzene-d5	1561316	936790	2185842	1553869	-0.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092012.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 20-SEP-2010 17:52
Operator : ea Inst ID: msda.i
Smp Info : 250mL #1936-317
Misc Info : 5.0ppbv (5ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 17:52 Cal File: a092012.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT1.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	455546	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	356910				48.35- 108.35	78.35
15.255	15.255	(1.000)	49	543504				89.31- 149.31	119.31

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1900417	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	308591				0.00- 46.24	16.24

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1746499	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	977155				25.95- 85.95	55.95

1 Freon134a CAS #: 811-97-2									
4.577	4.577	(0.300)	83	168679	5.00000	4.556		70.00- 130.00	100.00
4.601	4.601	(0.302)	69	154035				61.32- 121.32	91.32

3 Freon 152A CAS #: 75-37-6									
5.059	5.059	(0.332)	65	107383	5.00000	4.384		70.00- 130.00	100.00
5.083	5.083	(0.333)	51	178206				135.95- 195.95	165.95

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
5 Freon 22						CAS #: 75-45-6			
5.830	5.830	(0.382)	51	268029	5.00000	4.665	70.00-	130.00	100.00
5.830	5.830	(0.382)	67	50157			0.00-	48.71	18.71
5.830	5.830	(0.382)	85	5155			0.00-	31.92	1.92

58 1,1-Dichloropropene						CAS #: 563-58-6			
15.810	15.810	(1.036)	110	174117	5.00000	4.550	70.00-	130.00	100.00
15.810	15.810	(1.036)	75	478321			244.71-	304.71	274.71

92 1,1,1,2-Tetrachloroethane						CAS #: 630-20-6			
21.600	21.600	(1.007)	131	478948	5.00000	4.753	70.00-	130.00	100.00
21.600	21.600	(1.007)	117	324594			37.77-	97.77	67.77
21.600	21.600	(1.007)	95	178957			7.36-	67.36	37.36

105 1,2,3-Trichloropropane						CAS #: 96-18-4			
23.166	23.166	(1.080)	110	248301	5.00000	4.704	70.00-	130.00	100.00
23.166	23.166	(1.080)	75	685297			245.99-	305.99	275.99
23.166	23.166	(1.080)	61	160435			34.61-	94.61	64.61

108 2-Chlorotoluene						CAS #: 95-49-8			
23.295	23.295	(1.086)	126	282961	5.00000	4.859	70.00-	130.00	100.00
23.295	23.295	(1.086)	91	814616			257.89-	317.89	287.89
23.295	23.295	(1.086)	65	74852			0.00-	56.45	26.45

110 4-Chlorotoluene						CAS #: 106-43-4			
23.424	23.424	(1.092)	126	252698	5.00000	4.786	70.00-	130.00	100.00
23.424	23.424	(1.092)	91	737418			261.82-	321.82	291.82
23.424	23.424	(1.092)	63	92918			6.77-	66.77	36.77

111 tert-Butylbenzene						CAS #: 98-06-6			
23.682	23.682	(1.104)	119	685695	5.00000	4.999	70.00-	130.00	100.00
23.682	23.682	(1.104)	134	169185			0.00-	54.67	24.67
23.682	23.682	(1.104)	91	451461			35.84-	95.84	65.84

113 sec-Butylbenzene						CAS #: 135-98-8			
23.914	23.914	(1.115)	105	943861	5.00000	4.963	70.00-	130.00	100.00
23.914	23.914	(1.115)	134	188659			0.00-	49.99	19.99
23.914	23.914	(1.115)	91	146838			0.00-	45.56	15.56

114 p-Cymene						CAS #: 99-87-6			
24.069	24.069	(1.122)	119	617524	5.00000	4.930	70.00-	130.00	100.00
24.069	24.069	(1.122)	134	163307			0.00-	56.45	26.45
24.069	24.069	(1.122)	91	139491			0.00-	52.59	22.59

116 1,2,3-trimethylbenzene						CAS #: 526-73-8			
24.223	24.223	(1.129)	120	214118	5.00000	4.907	70.00-	130.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
116 1,2,3-trimethylbenzene (continued)									
24.223	24.223	(1.129)	105	490694			199.17- 259.17	229.17	
24.223	24.223	(1.129)	77	60449			0.00- 58.23	28.23	

120 Butylbenzene CAS #: 104-51-8									
24.481	24.481	(1.141)	134	122572	5.00000	4.719	70.00- 130.00	100.00	
24.481	24.481	(1.141)	91	450737			337.73- 397.73	367.73	
24.481	24.481	(1.141)	92	246148			170.82- 230.82	200.82	

124 1,2-dibromo-3-chloropropane CAS #: 96-12-8									
25.461	25.461	(1.187)	157	347972	5.00000	5.008	70.00- 130.00	100.00	
25.461	25.461	(1.187)	75	314415			60.36- 120.36	90.36	
25.461	25.461	(1.187)	155	270749			47.81- 107.81	77.81	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 20-SEP-2010
Lab File ID: a092012.d	Calibration Time: 10:29
Lab Smp Id: ICAL	Client Smp ID: Level 8
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/20Sep2010.b/a1010915a.m	
Misc Info: 5.0ppbv (5ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	471799	283079	660519	455546	-3.44
66 1,4-Difluorobenze	1948064	1168838	2727290	1900417	-2.45
88 Chlorobenzene-d5	1784561	1070737	2498385	1746499	-2.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 20-SEP-2010 17:52

Client ID: Level 8

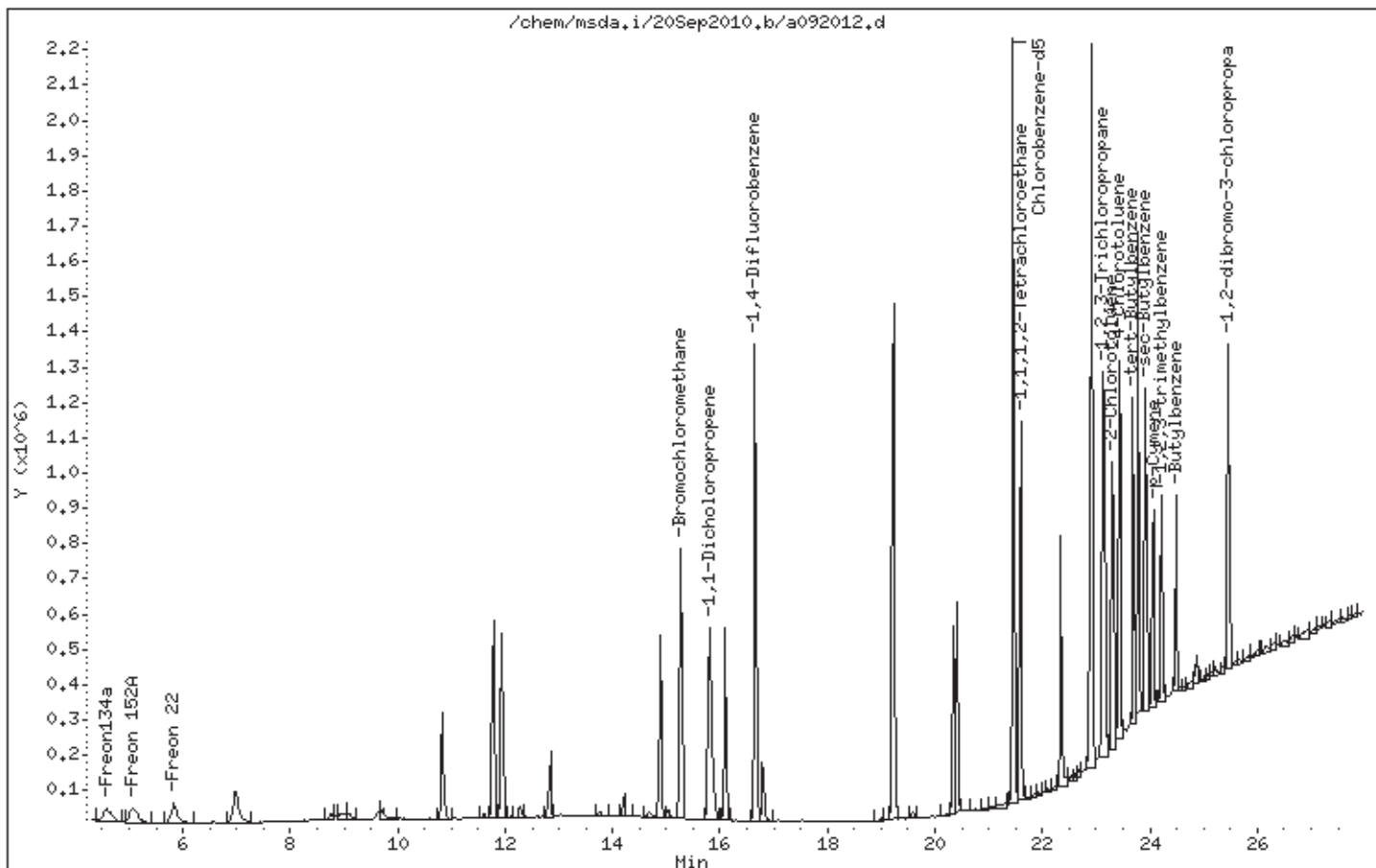
Instrument: msda,i

Sample Info: 250mL #1936-317

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092009.d
 Lab Smp Id: ICAL Client Smp ID: Level 8
 Inj Date : 20-SEP-2010 15:43
 Operator : ea Inst ID: msda.i
 Smp Info : 250mL #1936-323
 Misc Info : 5.0ppbv (5ppbv)
 Comment :
 Method : /chem/msda.i/20Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 15:43 Cal File: a092009.d
 Als bottle: 1 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: spAT4.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	483446	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	373902				47.34- 107.34	77.34
15.255	15.255	(1.000)	49	570375				87.98- 147.98	117.98

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1946348	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	311235				0.00- 45.99	15.99

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1791565	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	1007441				26.23- 86.23	56.23

15 Vinyl Bromide CAS #: 593-60-2									
10.558	10.558	(0.692)	106	256923	5.00000	4.717		70.00- 130.00	100.00
10.558	10.558	(0.692)	108	243358				64.72- 124.72	94.72

31 Acetonitrile CAS #: 75-05-8									
12.900	12.900	(0.846)	40	201377	5.00000	4.731		70.00- 130.00	100.00
12.900	12.900	(0.846)	41	385339				161.35- 221.35	191.35

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
31 Acetonitrile (continued)									
12.900	12.900	(0.846)	39	79409			9.43- 69.43	39.43	

37 Acrylonitrile									
						CAS #: 107-13-1			
13.531	13.531	(0.887)	53	248519	5.00000	4.790	70.00- 130.00	100.00	
13.531	13.531	(0.887)	52	203297			51.80- 111.80	81.80	

43 Chloroprene									
						CAS #: 126-99-8			
14.190	14.190	(0.930)	53	409985	5.00000	4.830	70.00- 130.00	100.00	
14.190	14.190	(0.930)	88	265673			34.80- 94.80	64.80	

Date : 20-SEP-2010 15:43

Client ID: Level 8

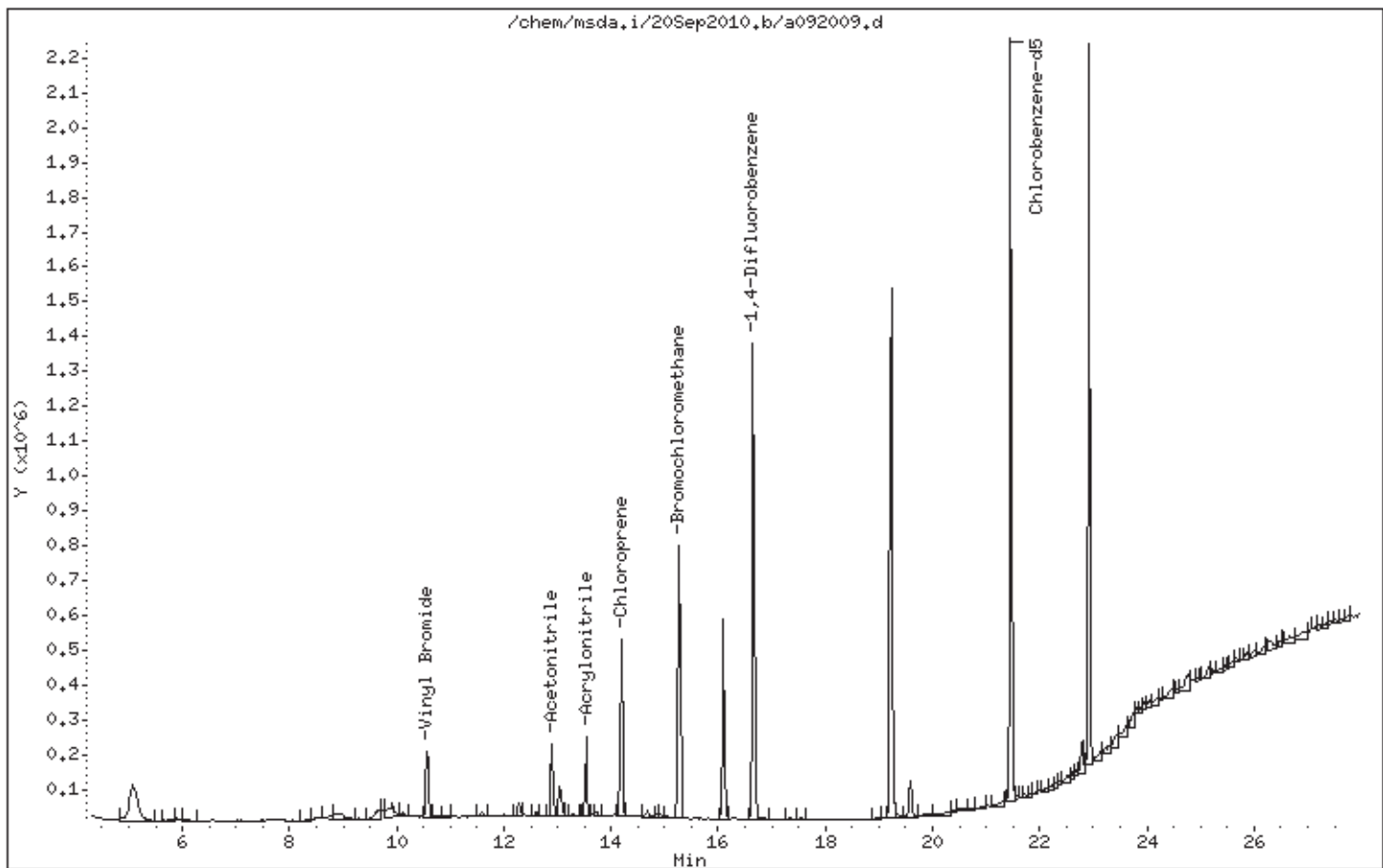
Instrument: msda.i

Sample Info: 250mL #1936-323

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091513.d
 Lab Smp Id: ICAL Client Smp ID: Level 8
 Inj Date : 15-SEP-2010 16:06
 Operator : db Inst ID: msda.i
 Smp Info : 25ml #1936-327
 Misc Info : 5ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 16:08 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 16:06 Cal File: a091513.d
 Als bottle: 2 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	420958	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	321616				46.40- 106.40	76.40
15.255	15.255	(1.000)	49	578443				107.41- 167.41	137.41

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1745895	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	287414				0.00- 46.46	16.46

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1578984	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	915621				27.99- 87.99	57.99

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	613347	10.0000	10.024		70.00- 130.00	100.00
16.098	16.098	(1.055)	67	340093				25.45- 85.45	55.45

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1778098	10.0000	9.999		70.00- 130.00	100.00
19.234	19.234	(1.155)	70	201646				0.00- 41.34	11.34

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1177634			36.23- 96.23	66.23	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	808504	10.0000	10.021	70.00- 130.00	100.00	
22.934	22.934	(1.069)	95	1074184			102.86- 162.86	132.86	
22.934	22.934	(1.069)	176	790379			67.76- 127.76	97.76	

2 Propylene CAS #: 115-07-1									
4.745	4.745	(0.311)	41	219883	5.00000	5.347	70.00- 130.00	100.00	
4.721	4.721	(0.309)	42	149466			37.98- 97.98	67.98	
4.745	4.745	(0.311)	39	161957			43.66- 103.66	73.66	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.252	5.252	(0.344)	85	908526	5.00000	5.373	70.00- 130.00	100.00	
5.252	5.252	(0.344)	87	295139			2.49- 62.49	32.49	

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	582683	5.00000	5.206	70.00- 130.00	100.00	
6.722	6.722	(0.441)	137	187193			2.13- 62.13	32.13	

7 Chloromethane CAS #: 74-87-3									
7.011	7.011	(0.460)	50	270770	5.00000	5.132	70.00- 130.00	100.00	
7.011	7.011	(0.460)	52	85766			1.67- 61.67	31.67	

9 Butane CAS #: 106-97-8									
7.761	7.761	(0.509)	58	67825	5.00000	5.508	70.00- 130.00	100.00	
7.761	7.761	(0.509)	43	451219			635.27- 695.27	665.27	

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	330163	5.00000	5.350	70.00- 130.00	100.00	
7.883	7.883	(0.517)	64	106930			2.39- 62.39	32.39	

11 1,3-Butadiene CAS #: 106-99-0									
8.109	8.109	(0.532)	54	226136	5.00000	5.292	70.00- 130.00	100.00	
8.109	8.109	(0.532)	39	221667			68.02- 128.02	98.02	

12 Bromomethane CAS #: 74-83-9									
9.522	9.522	(0.624)	94	173225	5.00000	5.202	70.00- 130.00	100.00	
9.522	9.522	(0.624)	96	159996			62.36- 122.36	92.36	

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	146402	5.00000	5.280	70.00- 130.00	100.00	
9.998	9.998	(0.655)	66	49297			3.67- 63.67	33.67	

14 Isopentane CAS #: 78-78-4									
10.123	10.123	(0.664)	57	263647	5.00000	5.752	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
14 Isopentane (continued)									
10.123	10.123	(0.664)	43	376711			112.88- 172.88	142.88	
10.123	10.123	(0.664)	42	337199			97.90- 157.90	127.90	

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	836720	5.00000	5.320	70.00- 130.00	100.00	
10.724	10.724	(0.703)	103	539553			34.48- 94.48	64.48	

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	110071	5.00000	5.836	70.00- 130.00	100.00	
11.553	11.553	(0.757)	43	23725			0.00- 51.55	21.55	
11.553	11.553	(0.757)	46	44324			10.27- 70.27	40.27	

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	559229	5.00000	5.660	70.00- 130.00	100.00	
12.009	12.009	(0.787)	153	358565			34.12- 94.12	64.12	
12.009	12.009	(0.787)	101	740255			102.37- 162.37	132.37	

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	211157	5.00000	5.758	70.00- 130.00	100.00	
12.030	12.030	(0.789)	61	527358			219.75- 279.75	249.75	
12.030	12.030	(0.789)	96	330599			126.57- 186.57	156.57	

24 Acetone CAS #: 67-64-1									
12.258	12.258	(0.804)	58	146212	5.00000	5.845	70.00- 130.00	100.00	
12.258	12.258	(0.804)	43	458546			283.62- 343.62	313.62	

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	917558	5.00000	5.554	70.00- 130.00	100.00	

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	129582	5.00000	6.229	70.00- 130.00	100.00	
12.776	12.776	(0.837)	41	351777			241.47- 301.47	271.47	

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	589988	5.00000	6.247	70.00- 130.00	100.00	
12.569	12.569	(0.824)	43	101062			0.00- 47.13	17.13	
12.569	12.569	(0.824)	59	20479			0.00- 33.47	3.47	

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	286983	5.00000	5.177	70.00- 130.00	100.00	
13.037	13.037	(0.855)	49	344090			89.90- 149.90	119.90	
13.037	13.037	(0.855)	51	106071			6.96- 66.96	36.96	

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	612073	5.00000	5.582	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	162166			0.00-	56.49	26.49
13.229	13.229	(0.867)	57	63114			0.00-	40.31	10.31

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	997427	5.00000	5.449	70.00-	130.00	100.00
13.367	13.367	(0.876)	57	215298			0.00-	51.59	21.59
13.367	13.367	(0.876)	41	224572			0.00-	52.52	22.52

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.421	13.421	(0.880)	98	233311	5.00000	5.487	70.00-	130.00	100.00
13.421	13.421	(0.880)	61	513085			189.91-	249.91	219.91
13.421	13.421	(0.880)	96	370539			128.82-	188.82	158.82

40 Hexane CAS #: 110-54-3									
13.723	13.723	(0.900)	57	554418	5.00000	5.424	70.00-	130.00	100.00
13.723	13.723	(0.900)	43	344812			32.19-	92.19	62.19
13.723	13.723	(0.900)	86	108922			0.00-	49.65	19.65

41 Isopropyl ether CAS #: 108-20-3									
14.053	14.053	(0.921)	45	1143939	5.00000	5.726	70.00-	130.00	100.00
14.053	14.053	(0.921)	87	343914			0.06-	60.06	30.06
14.053	14.053	(0.921)	59	137650			0.00-	42.03	12.03

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	641737	5.00000	5.410	70.00-	130.00	100.00
14.108	14.108	(0.925)	65	206113			2.12-	62.12	32.12

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	92024	5.00000	5.626	70.00-	130.00	100.00
14.135	14.135	(0.927)	42	123665			104.38-	164.38	134.38
14.135	14.135	(0.927)	43	1374493			1463.62-	1523.62	1493.62

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	1085489	5.00000	5.688	70.00-	130.00	100.00
14.562	14.562	(0.955)	87	482590			14.46-	74.46	44.46
14.562	14.562	(0.955)	41	207058			0.00-	49.08	19.08

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	187916	5.00000	5.445	70.00-	130.00	100.00
14.915	14.915	(0.978)	43	672562			327.91-	387.91	357.91
14.915	14.915	(0.978)	57	53495			0.00-	58.47	28.47

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	235698	5.00000	5.469	70.00-	130.00	100.00
14.915	14.915	(0.978)	61	468075			168.59-	228.59	198.59

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
47 cis-1,2-Dichloroethene (continued)									
14.915	14.915	(0.978)	96	370146			127.04- 187.04	157.04	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	375494	5.00000	5.680	70.00- 130.00	100.00	
15.255	15.255	(1.000)	71	161914			13.12- 73.12	43.12	
15.255	15.255	(1.000)	72	170800			15.49- 75.49	45.49	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	727646	5.00000	5.419	70.00- 130.00	100.00	
15.317	15.317	(1.004)	85	471005			34.73- 94.73	64.73	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.563	15.563	(1.020)	97	772154	5.00000	5.630	70.00- 130.00	100.00	
15.563	15.563	(1.020)	99	487114			33.09- 93.09	63.09	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	522953	5.00000	5.395	70.00- 130.00	100.00	
15.594	15.594	(1.022)	56	559827			77.05- 137.05	107.05	
15.594	15.594	(1.022)	41	304627			28.25- 88.25	58.25	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	734593	5.00000	5.257	70.00- 130.00	100.00	
15.779	15.779	(1.034)	117	759020			73.33- 133.33	103.33	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	555933	5.00000	5.014	70.00- 130.00	100.00	
16.043	16.043	(1.052)	57	1653844			267.49- 327.49	297.49	
16.043	16.043	(1.052)	41	438419			48.86- 108.86	78.86	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	1152241	5.00000	5.292	70.00- 130.00	100.00	
16.098	16.098	(0.967)	77	266860			0.00- 53.16	23.16	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	251085	5.00000	5.596	70.00- 130.00	100.00	
16.153	16.153	(0.970)	73	1046009			386.60- 446.60	416.60	
16.153	16.153	(0.970)	55	306731			92.16- 152.16	122.16	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	503045	5.00000	5.425	70.00- 130.00	100.00	
16.208	16.208	(0.974)	64	160079			1.82- 61.82	31.82	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	325096	5.00000	5.328	70.00- 130.00	100.00	
16.290	16.290	(0.979)	100	131443			10.43- 70.43	40.43	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
64 Heptane (continued)									
16.290	16.290	(0.979)	43	601421			155.00- 215.00	185.00	

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	508235	5.00000	5.414	70.00- 130.00	100.00	
17.059	17.059	(1.025)	95	486604			65.74- 125.74	95.74	
17.059	17.059	(1.025)	97	324816			33.91- 93.91	63.91	

69 Methylcyclohexane CAS #: 108-87-2									
17.306	17.306	(1.040)	83	697879	5.00000	5.629	70.00- 130.00	100.00	
17.334	17.334	(1.041)	98	337678			18.39- 78.39	48.39	
17.306	17.306	(1.040)	55	514653			43.75- 103.75	73.75	

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	404492	5.00000	5.349	70.00- 130.00	100.00	
17.526	17.526	(1.053)	62	288630			41.36- 101.36	71.36	
17.526	17.526	(1.053)	41	228875			26.58- 86.58	56.58	

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	260940	5.00000	5.284	70.00- 130.00	100.00	
17.636	17.636	(1.059)	58	170535			35.35- 95.35	65.35	
17.636	17.636	(1.059)	57	55544			0.00- 51.29	21.29	

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	757554	5.00000	5.512	70.00- 130.00	100.00	
17.938	17.938	(1.078)	85	489096			34.56- 94.56	64.56	

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.785	18.785	(1.128)	75	607151	5.00000	5.467	70.00- 130.00	100.00	
18.785	18.785	(1.128)	77	193035			1.79- 61.79	31.79	
18.785	18.785	(1.128)	39	287560			17.36- 77.36	47.36	

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	788610	5.00000	5.499	70.00- 130.00	100.00	
18.987	18.987	(1.141)	58	321893			10.82- 70.82	40.82	
18.987	18.987	(1.141)	85	147981			0.00- 48.76	18.76	

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	1308569	5.00000	5.389	70.00- 130.00	100.00	
19.346	19.346	(1.162)	92	774489			29.19- 89.19	59.19	

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	627509	5.00000	5.624	70.00- 130.00	100.00	
19.749	19.749	(0.920)	77	198746			1.67- 61.67	31.67	
19.749	19.749	(0.920)	39	281370			14.84- 74.84	44.84	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	463299	5.00000	5.622	70.00-	130.00	100.00
20.036	20.036	(0.934)	99	285056			31.53-	91.53	61.53
20.036	20.036	(0.934)	83	393142			54.86-	114.86	84.86

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	617120	5.00000	5.460	70.00-	130.00	100.00
20.199	20.199	(0.941)	129	480884			47.92-	107.92	77.92
20.199	20.199	(0.941)	131	463709			45.14-	105.14	75.14

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	419685	5.00000	5.568	70.00-	130.00	100.00
20.329	20.329	(0.947)	43	744643			147.43-	207.43	177.43
20.329	20.329	(0.947)	100	98037			0.00-	53.36	23.36

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	724472	5.00000	5.814	70.00-	130.00	100.00
20.654	20.654	(0.963)	127	561301			47.48-	107.48	77.48

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	712699	5.00000	5.608	70.00-	130.00	100.00
20.881	20.881	(0.973)	109	666176			63.47-	123.47	93.47

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1017084	5.00000	5.417	70.00-	130.00	100.00
21.504	21.504	(1.002)	114	329292			2.38-	62.38	32.38
21.504	21.504	(1.002)	77	664175			35.30-	95.30	65.30

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	492573	5.00000	5.465	70.00-	130.00	100.00
21.576	21.576	(1.006)	91	1519924			278.57-	338.57	308.57

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	511529	5.00000	5.396	70.00-	130.00	100.00
21.721	21.721	(1.012)	91	991865			163.90-	223.90	193.90

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	478420	5.00000	5.294	70.00-	130.00	100.00
22.251	22.251	(1.037)	91	997030			178.40-	238.40	208.40

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	759373	5.00000	5.319	70.00-	130.00	100.00
22.275	22.275	(1.038)	78	381249			20.21-	80.21	50.21

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	641587	5.00000	5.729	70.00-	130.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	333747			22.02-	82.02	52.02

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	1450891	5.00000	5.434	70.00-	130.00	100.00
22.676	22.676	(1.057)	120	383571			0.00-	56.44	26.44

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	950920	5.00000	5.454	70.00-	130.00	100.00
23.063	23.063	(1.075)	85	611475			34.30-	94.30	64.30

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	1339046	5.00000	5.325	70.00-	130.00	100.00
23.140	23.140	(1.078)	120	310501			0.00-	53.19	23.19

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1015548	5.00000	5.260	70.00-	130.00	100.00
23.269	23.269	(1.085)	120	296982			0.00-	59.24	29.24

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	791387	5.00000	5.214	70.00-	130.00	100.00
23.321	23.321	(1.087)	120	377880			17.75-	77.75	47.75

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	553475	5.00000	5.109	70.00-	130.00	100.00
23.759	23.759	(1.107)	120	251862			15.51-	75.51	45.51

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	644244	5.00000	4.857	70.00-	130.00	100.00
24.120	24.120	(1.124)	148	408097			33.35-	93.35	63.35
24.120	24.120	(1.124)	111	267131			11.46-	71.46	41.46

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	568566	5.00000	4.659	70.00-	130.00	100.00
24.223	24.223	(1.129)	148	360419			33.39-	93.39	63.39
24.223	24.223	(1.129)	111	226139			9.77-	69.77	39.77

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	993262	5.00000	5.380	70.00-	130.00	100.00
24.352	24.352	(1.135)	126	204687			0.00-	50.61	20.61

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	553469	5.00000	4.918	70.00-	130.00	100.00
24.636	24.636	(1.148)	148	350043			33.25-	93.25	63.25
24.636	24.636	(1.148)	111	234144			12.30-	72.30	42.30

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	123855	5.00000	3.478	70.00- 130.00	100.00	
26.338	26.338	(1.228)	182	119459			66.45- 126.45	96.45	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	191893	5.00000	3.476	70.00- 130.00	100.00	
26.416	26.416	(1.231)	223	121388			33.26- 93.26	63.26	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	208647	5.00000	3.379	70.00- 130.00	100.00	
26.648	26.648	(1.242)	127	27828			0.00- 43.34	13.34	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091513.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 8
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m	
Misc Info: 5ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	420958	1.30
66 1,4-Difluorobenze	1700376	1020226	2380526	1745895	2.68
88 Chlorobenzene-d5	1561316	936790	2185842	1578984	1.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091514.d
 Lab Smp Id: ICAL Client Smp ID: Level 9
 Inj Date : 15-SEP-2010 16:48
 Operator : db Inst ID: msda.i
 Smp Info : 50ml #1936-327
 Misc Info : 10ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a1010915a.m
 Meth Date : 21-Sep-2010 16:10 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 16:48 Cal File: a091514.d
 Als bottle: 2 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	415545	10.0000		80.00- 120.00	100.00	
15.255	15.255	(1.000)	128	320504			46.40- 106.40	77.13	
15.255	15.255	(1.000)	49	612474			107.41- 167.41	147.39	

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1700376	10.0000		80.00- 120.00	100.00	
16.647	16.647	(1.000)	88	277832			0.00- 46.46	16.34	

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1561316	10.0000		80.00- 120.00	100.00	
21.456	21.456	(1.000)	82	904601			27.99- 87.99	57.94	

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	597576	10.0000	9.894	80.00- 120.00	100.00	
16.098	16.098	(1.055)	67	342697			25.45- 85.45	57.35	

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1741868	10.0000	10.058	80.00- 120.00	100.00	
19.234	19.234	(1.155)	70	197926			0.00- 41.34	11.36	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1157481			36.45- 96.45	66.45	

\$ 100 Bromofluorobenzene									
						CAS #: 460-00-4			
22.934	22.934	(1.069)	174	808958	10.0000	10.140	80.00- 120.00	100.00	
22.934	22.934	(1.069)	95	1073777			102.74- 162.74	132.74	
22.934	22.934	(1.069)	176	783121			66.81- 126.81	96.81	

2 Propylene									
						CAS #: 115-07-1			
4.770	4.770	(0.313)	41	411692	10.0000	10.141	80.00- 120.00	100.00	
4.770	4.770	(0.313)	42	272560			37.98- 97.98	66.20	
4.770	4.770	(0.313)	39	301435			43.66- 103.66	73.22	

4 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
5.300	5.300	(0.347)	85	1699505	10.0000	10.181	80.00- 120.00	100.00	
5.300	5.300	(0.347)	87	548832			2.29- 62.29	32.29	

6 Freon 114									
						CAS #: 76-14-2			
6.722	6.722	(0.441)	135	1097268	10.0000	9.931	80.00- 120.00	100.00	
6.722	6.722	(0.441)	137	343792			2.13- 62.13	31.33	

7 Chloromethane									
						CAS #: 74-87-3			
7.035	7.035	(0.461)	50	499108	10.0000	9.583	80.00- 120.00	100.00	
7.035	7.035	(0.461)	52	163361			1.67- 61.67	32.73	

9 Butane									
						CAS #: 106-97-8			
7.762	7.762	(0.509)	58	123056	10.0000	10.124	80.00- 120.00	100.00	
7.762	7.762	(0.509)	43	824491			635.27- 695.27	670.01	

10 Vinyl Chloride									
						CAS #: 75-01-4			
7.900	7.900	(0.518)	62	609143	10.0000	9.998	80.00- 120.00	100.00	
7.900	7.900	(0.518)	64	194020			1.85- 61.85	31.85	

11 1,3-Butadiene									
						CAS #: 106-99-0			
8.126	8.126	(0.533)	54	412513	10.0000	9.779	80.00- 120.00	100.00	
8.126	8.126	(0.533)	39	399244			68.02- 128.02	96.78	

12 Bromomethane									
						CAS #: 74-83-9			
9.543	9.543	(0.626)	94	333842	10.0000	10.157	80.00- 120.00	100.00	
9.543	9.543	(0.626)	96	304770			61.29- 121.29	91.29	

13 Chloroethane									
						CAS #: 75-00-3			
9.999	9.999	(0.655)	64	288496	10.0000	10.539	80.00- 120.00	100.00	
9.999	9.999	(0.655)	66	95003			3.67- 63.67	32.93	

14 Isopentane									
						CAS #: 78-78-4			
10.144	10.144	(0.665)	57	469852	10.0000	10.385	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
14 Isopentane (continued)									
10.144	10.144	(0.665)	43	663547			112.88- 172.88	141.22	
10.144	10.144	(0.665)	42	593372			97.90- 157.90	126.29	

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	1523124	10.0000	9.811	80.00- 120.00	100.00	
10.724	10.724	(0.703)	103	982659			34.52- 94.52	64.52	

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	207654	10.0000	11.153	80.00- 120.00	100.00	
11.553	11.553	(0.757)	43	45090			0.00- 51.55	21.71	
11.553	11.553	(0.757)	46	84510			10.27- 70.27	40.70	

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	1005334	10.0000	10.308	80.00- 120.00	100.00	
12.009	12.009	(0.787)	153	650948			34.75- 94.75	64.75	
12.009	12.009	(0.787)	101	1318361			102.37- 162.37	131.14	

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	379992	10.0000	10.497	80.00- 120.00	100.00	
12.030	12.030	(0.789)	61	953052			219.75- 279.75	250.81	
12.030	12.030	(0.789)	96	604803			126.57- 186.57	159.16	

24 Acetone CAS #: 67-64-1									
12.279	12.279	(0.805)	58	275653	10.0000	11.163	80.00- 120.00	100.00	
12.279	12.279	(0.805)	43	853305			283.62- 343.62	309.56	

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	1709058	10.0000	10.480	80.00- 120.00	100.00	

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	195839	10.0000	9.536	80.00- 120.00	100.00	
12.776	12.776	(0.837)	41	531491			241.47- 301.47	271.39	

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	909740	10.0000	9.758	80.00- 120.00	100.00	
12.569	12.569	(0.824)	43	184230			0.00- 47.13	20.25	
12.569	12.569	(0.824)	59	38483			0.00- 33.47	4.23	

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	543643	10.0000	9.935	80.00- 120.00	100.00	
13.037	13.037	(0.855)	49	651232			89.90- 149.90	119.79	
13.037	13.037	(0.855)	51	197493			6.96- 66.96	36.33	

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	1118053	10.0000	10.328	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	284477			0.00-	56.49	25.44
13.229	13.229	(0.867)	57	115850			0.00-	40.31	10.36

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	1806469	10.0000	9.997	80.00-	120.00	100.00
13.367	13.367	(0.876)	57	381446			0.00-	51.59	21.12
13.367	13.367	(0.876)	41	390977			0.00-	52.52	21.64

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.422	13.422	(0.880)	98	420107	10.0000	10.009	80.00-	120.00	100.00
13.422	13.422	(0.880)	61	917681			189.91-	249.91	218.44
13.422	13.422	(0.880)	96	670248			128.82-	188.82	159.54

40 Hexane CAS #: 110-54-3									
13.724	13.724	(0.900)	57	999427	10.0000	9.906	80.00-	120.00	100.00
13.724	13.724	(0.900)	43	624599			32.19-	92.19	62.50
13.724	13.724	(0.900)	86	195693			0.00-	49.65	19.58

41 Isopropyl ether CAS #: 108-20-3									
14.081	14.081	(0.923)	45	2063323	10.0000	10.463	80.00-	120.00	100.00
14.081	14.081	(0.923)	87	628274			0.06-	60.06	30.45
14.081	14.081	(0.923)	59	252509			0.00-	42.03	12.24

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	1162465	10.0000	9.927	80.00-	120.00	100.00
14.108	14.108	(0.925)	65	376591			2.12-	62.12	32.40

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	167621	10.0000	10.382	80.00-	120.00	100.00
14.135	14.135	(0.927)	42	222352			104.38-	164.38	132.65
14.135	14.135	(0.927)	43	2476610			1463.62-	1523.62	1477.51

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	1975501	10.0000	10.487	80.00-	120.00	100.00
14.562	14.562	(0.955)	87	866531			14.46-	74.46	43.86
14.562	14.562	(0.955)	41	371501			0.00-	49.08	18.81

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	338376	10.0000	9.932	80.00-	120.00	100.00
14.915	14.915	(0.978)	43	1198229			327.91-	387.91	354.11
14.915	14.915	(0.978)	57	95876			0.00-	58.47	28.33

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	423703	10.0000	9.960	80.00-	120.00	100.00
14.915	14.915	(0.978)	61	840043			168.59-	228.59	198.26

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
47 cis-1,2-Dichloroethene (continued)									
14.915	14.915	(0.978)	96	670035			128.14- 188.14	158.14	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	682291	10.0000	10.456	80.00- 120.00	100.00	
15.255	15.255	(1.000)	71	291867			13.12- 73.12	42.78	
15.255	15.255	(1.000)	72	322754			15.49- 75.49	47.30	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	1315983	10.0000	9.928	80.00- 120.00	100.00	
15.317	15.317	(1.004)	85	852114			34.73- 94.73	64.75	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.595	15.595	(1.022)	97	1371226	10.0000	10.129	80.00- 120.00	100.00	
15.595	15.595	(1.022)	99	876510			33.09- 93.09	63.92	

55 Cyclohexane CAS #: 110-82-7									
15.595	15.595	(1.022)	84	957923	10.0000	10.011	80.00- 120.00	100.00	
15.595	15.595	(1.022)	56	1009444			77.05- 137.05	105.38	
15.595	15.595	(1.022)	41	551348			28.25- 88.25	57.56	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	1327894	10.0000	9.627	80.00- 120.00	100.00	
15.779	15.779	(1.034)	117	1384682			73.33- 133.33	104.28	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	1017447	10.0000	9.297	80.00- 120.00	100.00	
16.043	16.043	(1.052)	57	3036118			267.49- 327.49	298.41	
16.043	16.043	(1.052)	41	794872			48.86- 108.86	78.12	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	2082433	10.0000	9.820	80.00- 120.00	100.00	
16.098	16.098	(0.967)	77	488628			0.00- 53.16	23.46	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	463840	10.0000	10.615	80.00- 120.00	100.00	
16.153	16.153	(0.970)	73	1944779			386.60- 446.60	419.28	
16.153	16.153	(0.970)	55	514922			92.16- 152.16	111.01	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	892513	10.0000	9.884	80.00- 120.00	100.00	
16.208	16.208	(0.974)	64	291505			1.82- 61.82	32.66	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	599615	10.0000	10.090	80.00- 120.00	100.00	
16.290	16.290	(0.979)	100	244225			10.43- 70.43	40.73	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
64 Heptane (continued)									
16.290	16.290	(0.979)	43	1100026			155.00- 215.00	183.46	

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	921407	10.0000	10.078	80.00- 120.00	100.00	
17.059	17.059	(1.025)	95	891293			65.74- 125.74	96.73	
17.059	17.059	(1.025)	97	575234			33.91- 93.91	62.43	

69 Methylcyclohexane CAS #: 108-87-2									
17.334	17.334	(1.041)	83	1280254	10.0000	10.602	80.00- 120.00	100.00	
17.334	17.334	(1.041)	98	612581			18.39- 78.39	47.85	
17.334	17.334	(1.041)	55	930088			43.75- 103.75	72.65	

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	725834	10.0000	9.855	80.00- 120.00	100.00	
17.526	17.526	(1.053)	62	515573			41.36- 101.36	71.03	
17.526	17.526	(1.053)	41	404426			25.72- 85.72	55.72	

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	480721	10.0000	9.996	80.00- 120.00	100.00	
17.636	17.636	(1.059)	58	315737			35.35- 95.35	65.68	
17.636	17.636	(1.059)	57	100089			0.00- 51.29	20.82	

76 Bromodichloromethane CAS #: 75-27-4									
17.965	17.965	(1.079)	83	1394611	10.0000	10.418	80.00- 120.00	100.00	
17.965	17.965	(1.079)	85	895122			34.56- 94.56	64.18	

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	1125458	10.0000	10.405	80.00- 120.00	100.00	
18.786	18.786	(1.128)	77	352822			1.79- 61.79	31.35	
18.786	18.786	(1.128)	39	525835			16.72- 76.72	46.72	

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	1483598	10.0000	10.622	80.00- 120.00	100.00	
18.987	18.987	(1.141)	58	602294			10.82- 70.82	40.60	
18.987	18.987	(1.141)	85	285606			0.00- 48.76	19.25	

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	2411459	10.0000	10.196	80.00- 120.00	100.00	
19.346	19.346	(1.162)	92	1428037			29.19- 89.19	59.22	

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	1163920	10.0000	10.549	80.00- 120.00	100.00	
19.749	19.749	(0.920)	77	367687			1.67- 61.67	31.59	
19.749	19.749	(0.920)	39	522656			14.90- 74.90	44.90	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	843594	10.0000	10.353	80.00- 120.00	100.00	
20.069	20.069	(0.935)	99	529127			31.53- 91.53	62.72	
20.036	20.036	(0.934)	83	716167			54.89- 114.89	84.89	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	1138992	10.0000	10.191	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	881208			47.92- 107.92	77.37	
20.199	20.199	(0.941)	131	841614			45.14- 105.14	73.89	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	809387	10.0000	10.861	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1425290			147.43- 207.43	176.09	
20.329	20.329	(0.947)	100	181648			0.00- 53.36	22.44	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1383415	10.0000	11.227	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	1074016			47.48- 107.48	77.64	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.882	20.882	(0.973)	107	1288226	10.0000	10.251	80.00- 120.00	100.00	
20.882	20.882	(0.973)	109	1216831			63.47- 123.47	94.46	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1879374	10.0000	10.124	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	605674			2.38- 62.38	32.23	
21.504	21.504	(1.002)	77	1212271			34.50- 94.50	64.50	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	916392	10.0000	10.282	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2860154			278.57- 338.57	312.11	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	965810	10.0000	10.304	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1891697			163.90- 223.90	195.87	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	920930	10.0000	10.306	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1907386			178.40- 238.40	207.12	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1492688	10.0000	10.574	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	748764			20.21- 80.21	50.16	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1264001	10.0000	11.415	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	656837			22.02- 82.02	51.96	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2797178	10.0000	10.595	80.00- 120.00	100.00	
22.676	22.676	(1.057)	120	745943			0.00- 56.44	26.67	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1770791	10.0000	10.271	80.00- 120.00	100.00	
23.063	23.063	(1.075)	85	1151522			34.30- 94.30	65.03	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2671024	10.0000	10.741	80.00- 120.00	100.00	
23.140	23.140	(1.078)	120	607822			0.00- 53.19	22.76	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	2034801	10.0000	10.658	80.00- 120.00	100.00	
23.269	23.269	(1.085)	120	606056			0.00- 59.24	29.78	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1558693	10.0000	10.386	80.00- 120.00	100.00	
23.321	23.321	(1.087)	120	748115			17.75- 77.75	48.00	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	1125385	10.0000	10.506	80.00- 120.00	100.00	
23.759	23.759	(1.107)	120	521333			15.51- 75.51	46.32	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1271976	10.0000	9.698	80.00- 120.00	100.00	
24.120	24.120	(1.124)	148	799966			33.35- 93.35	62.89	
24.120	24.120	(1.124)	111	512797			11.46- 71.46	40.31	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	1131443	10.0000	9.376	80.00- 120.00	100.00	
24.223	24.223	(1.129)	148	724900			33.39- 93.39	64.07	
24.223	24.223	(1.129)	111	444023			9.77- 69.77	39.24	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1978915	10.0000	10.840	80.00- 120.00	100.00	
24.352	24.352	(1.135)	126	410223			0.00- 50.61	20.73	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	1076857	10.0000	9.678	80.00- 120.00	100.00	
24.636	24.636	(1.148)	148	688091			33.90- 93.90	63.90	
24.636	24.636	(1.148)	111	457131			12.45- 72.45	42.45	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
126 1,2,4-Trichlorobenzene					CAS #: 120-82-1				
26.338	26.338	(1.228)	180	359790	10.0000	10.217	80.00- 120.00	100.00	
26.338	26.338	(1.228)	182	344877			66.45- 126.45	95.86	

128 Hexachlorobutadiene					CAS #: 87-68-3				
26.416	26.416	(1.231)	225	554025	10.0000	10.150	80.00- 120.00	100.00	
26.416	26.416	(1.231)	223	346567			33.26- 93.26	62.55	

129 Naphthalene					CAS #: 91-20-3				
26.648	26.648	(1.242)	128	602024	10.0000	9.859	80.00- 120.00	100.00	
26.648	26.648	(1.242)	127	78611			0.00- 43.34	13.06	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091514.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 15-SEP-2010
Calibration Time: 16:48
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	415545	0.00
66 1,4-Difluorobenze	1700376	1020226	2380526	1700376	0.00
88 Chlorobenzene-d5	1561316	936790	2185842	1561316	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 15-SEP-2010 16:48

Client ID: Level 9

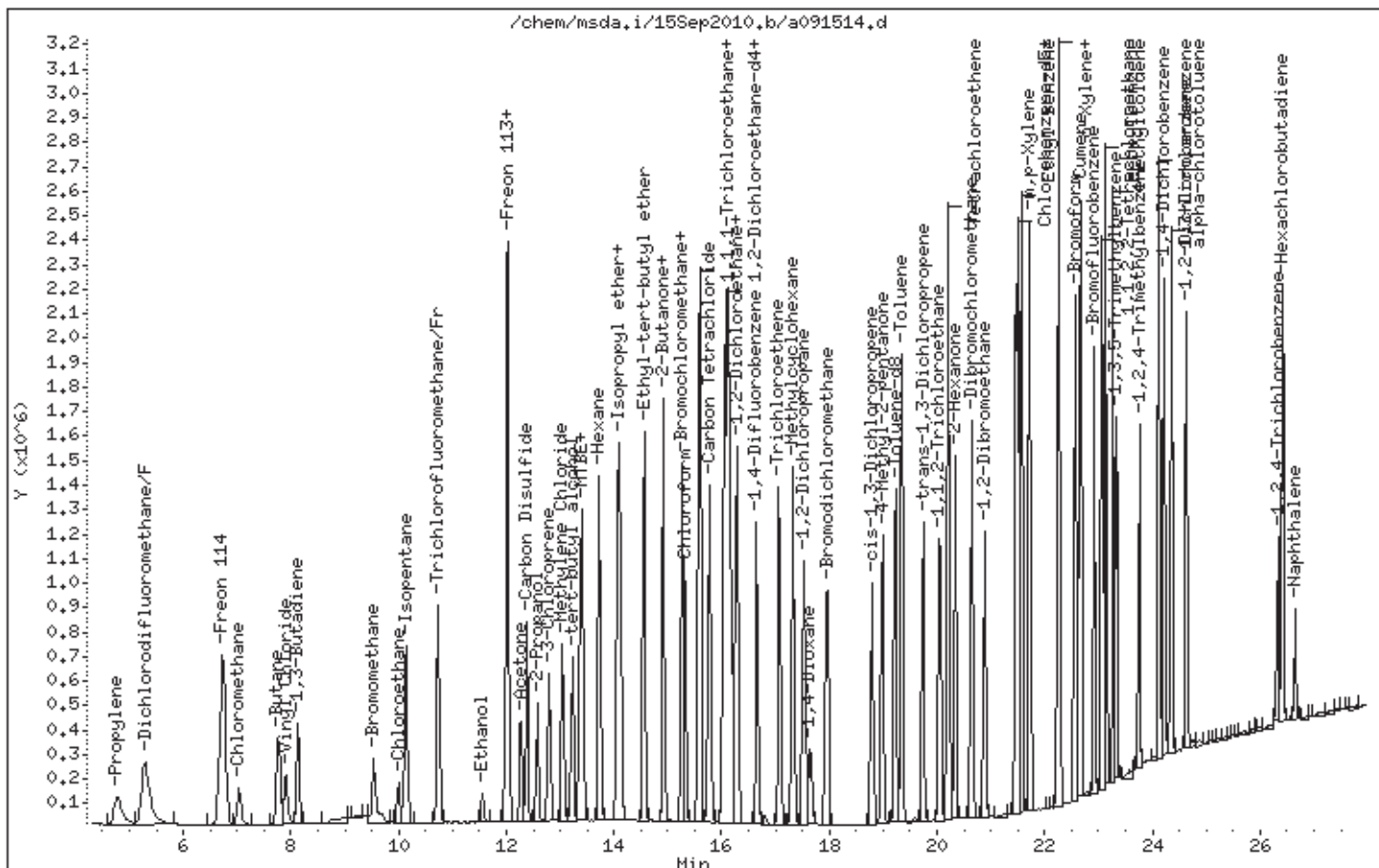
Instrument: msda.i

Sample Info: 50ml #1936-327

Operator: db

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091515.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 15-SEP-2010 17:24
Operator : db Inst ID: msda.i
Smp Info : 100ml #1936-327
Misc Info : 20ppbv (50ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 16:11 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515.d
Als bottle: 2 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	409470	10.0000		70.00-	130.00	100.00
15.255	15.255	(1.000)	128	315357			0.00-	30.00	77.02
15.255	15.255	(1.000)	49	695898			0.00-	30.00	169.95

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1706978	10.0000		70.00-	130.00	100.00
16.647	16.647	(1.000)	88	280837			0.00-	30.00	16.45

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1578124	10.0000		70.00-	130.00	100.00
21.456	21.456	(1.000)	82	917738			0.00-	30.00	58.15

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	617849	10.0000	10.381	70.00-	130.00	100.00
16.098	16.098	(1.055)	67	376336			0.00-	30.00	60.91

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1756619	10.0000	10.104	70.00-	130.00	100.00
19.234	19.234	(1.155)	70	201894			0.00-	30.00	11.49

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1170431			36.45- 96.45	66.63	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	850164	10.0000	10.544	70.00- 130.00	100.00	
22.934	22.934	(1.069)	95	1118257			102.74- 162.74	131.53	
22.934	22.934	(1.069)	176	824510			66.81- 126.81	96.98	

2 Propylene CAS #: 115-07-1									
4.746	4.746	(0.311)	41	770060	20.0000	19.250	70.00- 130.00	100.00	
4.770	4.770	(0.313)	42	511187			0.00- 30.00	66.38	
4.746	4.746	(0.311)	39	566102			0.00- 30.00	73.51	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.276	5.276	(0.346)	85	3193302	20.0000	19.414	70.00- 130.00	100.00	
5.276	5.276	(0.346)	87	1032869			2.29- 62.29	32.34	

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	2073062	20.0000	19.041	70.00- 130.00	100.00	
6.722	6.722	(0.441)	137	664693			0.00- 30.00	32.06	

7 Chloromethane CAS #: 74-87-3									
7.035	7.035	(0.461)	50	921667	20.0000	17.959	70.00- 130.00	100.00	
7.035	7.035	(0.461)	52	305627			0.00- 30.00	33.16	

9 Butane CAS #: 106-97-8									
7.762	7.762	(0.509)	58	237470	20.0000	19.827	70.00- 130.00	100.00	
7.762	7.762	(0.509)	43	1576853			0.00- 30.00	664.02	

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	1160976	20.0000	19.339	70.00- 130.00	100.00	
7.883	7.883	(0.517)	64	372239			1.85- 61.85	32.06	

11 1,3-Butadiene CAS #: 106-99-0									
8.126	8.126	(0.533)	54	809950	20.0000	19.486	70.00- 130.00	100.00	
8.126	8.126	(0.533)	39	770499			0.00- 30.00	95.13	

12 Bromomethane CAS #: 74-83-9									
9.522	9.522	(0.624)	94	685504	20.0000	21.165	70.00- 130.00	100.00(A)	
9.542	9.542	(0.626)	96	643104			61.29- 121.29	93.81	

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	562264	20.0000	20.846	70.00- 130.00	100.00(A)	
9.998	9.998	(0.655)	66	191452			0.00- 30.00	34.05	

14 Isopentane CAS #: 78-78-4									
10.123	10.123	(0.664)	57	864339	20.0000	19.388	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)									
10.123	10.123	(0.664)	43	1138800			0.00-	30.00	131.75
10.123	10.123	(0.664)	42	997674			0.00-	30.00	115.43

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	2996580	20.0000	19.588	70.00-	130.00	100.00
10.724	10.724	(0.703)	103	1952944			34.52-	94.52	65.17

20 Ethanol CAS #: 64-17-5									
11.574	11.574	(0.759)	45	386604	20.0000	21.073	70.00-	130.00	100.00(A)
11.574	11.574	(0.759)	43	82257			0.00-	30.00	21.28
11.574	11.574	(0.759)	46	155244			0.00-	30.00	40.16

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	1951475	20.0000	20.307	70.00-	130.00	100.00(A)
12.009	12.009	(0.787)	153	1250853			34.75-	94.75	64.10
12.009	12.009	(0.787)	101	2554903			0.00-	30.00	130.92

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	731647	20.0000	20.512	70.00-	130.00	100.00(A)
12.030	12.030	(0.789)	61	1818709			0.00-	30.00	248.58
12.030	12.030	(0.789)	96	1154953			0.00-	30.00	157.86

24 Acetone CAS #: 67-64-1									
12.279	12.279	(0.805)	58	512141	20.0000	21.048	70.00-	130.00	100.00(A)
12.279	12.279	(0.805)	43	1578759			0.00-	30.00	308.27

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	3204187	20.0000	19.940	70.00-	130.00	100.00

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	418901	20.0000	20.701	70.00-	130.00	100.00
12.776	12.776	(0.837)	41	1131402			0.00-	30.00	270.09

27 2-Propanol CAS #: 67-63-0									
12.590	12.590	(0.825)	45	2170617	20.0000	23.628	70.00-	130.00	100.00(A)
12.590	12.590	(0.825)	43	353122			0.00-	30.00	16.27
12.590	12.590	(0.825)	59	72908			0.00-	30.00	3.36

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	1000850	20.0000	18.562	70.00-	130.00	100.00
13.037	13.037	(0.855)	49	1180259			0.00-	30.00	117.93
13.037	13.037	(0.855)	51	361332			0.00-	30.00	36.10

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	2262416	20.0000	21.210	70.00-	130.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	539086			0.00-	30.00	23.83
13.229	13.229	(0.867)	57	239176			0.00-	30.00	10.57

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	3576810	20.0000	20.088	70.00-	130.00	100.00(A)
13.367	13.367	(0.876)	57	767629			0.00-	30.00	21.46
13.367	13.367	(0.876)	41	746316			0.00-	30.00	20.87

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.422	13.422	(0.880)	98	818709	20.0000	19.796	70.00-	130.00	100.00
13.422	13.422	(0.880)	61	1774008			0.00-	30.00	216.68
13.422	13.422	(0.880)	96	1288396			0.00-	30.00	157.37

40 Hexane CAS #: 110-54-3									
13.724	13.724	(0.900)	57	1903833	20.0000	19.149	70.00-	130.00	100.00
13.724	13.724	(0.900)	43	1178009			0.00-	30.00	61.88
13.724	13.724	(0.900)	86	375488			0.00-	30.00	19.72

41 Isopropyl ether CAS #: 108-20-3									
14.081	14.081	(0.923)	45	3963084	20.0000	20.395	70.00-	130.00	100.00
14.081	14.081	(0.923)	87	1206841			0.00-	30.00	30.45
14.081	14.081	(0.923)	59	480194			0.00-	30.00	12.12

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	2222193	20.0000	19.258	70.00-	130.00	100.00
14.108	14.108	(0.925)	65	707424			0.00-	30.00	31.83

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	336021	20.0000	21.121	70.00-	130.00	100.00(A)
14.135	14.135	(0.927)	42	426380			0.00-	30.00	126.89
14.135	14.135	(0.927)	43	4853819			0.00-	30.00	1444.50

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	3836930	20.0000	20.670	70.00-	130.00	100.00
14.562	14.562	(0.955)	87	1702944			0.00-	30.00	44.38
14.562	14.562	(0.955)	41	698854			0.00-	30.00	18.21

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	670618	20.0000	19.977	70.00-	130.00	100.00
14.915	14.915	(0.978)	43	2360029			0.00-	30.00	351.92
14.915	14.915	(0.978)	57	193427			0.00-	30.00	28.84

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	821254	20.0000	19.592	70.00-	130.00	100.00
14.915	14.915	(0.978)	61	1620438			0.00-	30.00	197.31

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
47 cis-1,2-Dichloroethene (continued)									
14.915	14.915	(0.978)	96	1294085			128.14- 188.14	157.57	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	1298537	20.0000	20.194	70.00- 130.00	100.00(A)	
15.255	15.255	(1.000)	71	561855			0.00- 30.00	43.27	
15.255	15.255	(1.000)	72	613869			0.00- 30.00	47.27	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	2535331	20.0000	19.410	70.00- 130.00	100.00	
15.317	15.317	(1.004)	85	1646582			0.00- 30.00	64.95	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.564	15.564	(1.020)	97	2693739	20.0000	20.194	70.00- 130.00	100.00(A)	
15.564	15.564	(1.020)	99	1722078			0.00- 30.00	63.93	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	1860122	20.0000	19.728	70.00- 130.00	100.00	
15.594	15.594	(1.022)	56	1969502			0.00- 30.00	105.88	
15.594	15.594	(1.022)	41	1058193			0.00- 30.00	56.89	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	2627832	20.0000	19.334	70.00- 130.00	100.00	
15.779	15.779	(1.034)	117	2716388			0.00- 30.00	103.37	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	1920760	20.0000	17.811	70.00- 130.00	100.00	
16.043	16.043	(1.052)	57	5757804			0.00- 30.00	299.77	
16.043	16.043	(1.052)	41	1511988			0.00- 30.00	78.72	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	4002629	20.0000	18.802	70.00- 130.00	100.00	
16.098	16.098	(0.967)	77	932920			0.00- 30.00	23.31	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	905747	20.0000	20.647	70.00- 130.00	100.00	
16.153	16.153	(0.970)	73	3812167			0.00- 30.00	420.89	
16.153	16.153	(0.970)	55	956712			0.00- 30.00	105.63	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	1718088	20.0000	18.952	70.00- 130.00	100.00	
16.208	16.208	(0.974)	64	559022			0.00- 30.00	32.54	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	1144459	20.0000	19.184	70.00- 130.00	100.00	
16.290	16.290	(0.979)	100	466004			0.00- 30.00	40.72	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	2075163			0.00-	30.00	181.32

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	1778431	20.0000	19.377	70.00-	130.00	100.00
17.059	17.059	(1.025)	95	1737037			0.00-	30.00	97.67
17.059	17.059	(1.025)	97	1117061			0.00-	30.00	62.81

69 Methylcyclohexane CAS #: 108-87-2									
17.334	17.334	(1.041)	83	2467991	20.0000	20.359	70.00-	130.00	100.00
17.334	17.334	(1.041)	98	1182614			0.00-	30.00	47.92
17.306	17.306	(1.040)	55	1781832			0.00-	30.00	72.20

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	1416952	20.0000	19.164	70.00-	130.00	100.00
17.526	17.526	(1.053)	62	1009227			0.00-	30.00	71.23
17.526	17.526	(1.053)	41	776839			25.72-	85.72	54.82

74 1,4-Dioxane CAS #: 123-91-1									
17.663	17.663	(1.061)	88	941324	20.0000	19.497	70.00-	130.00	100.00
17.663	17.663	(1.061)	58	615879			0.00-	30.00	65.43
17.636	17.636	(1.059)	57	191548			0.00-	30.00	20.35

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	2783837	20.0000	20.716	70.00-	130.00	100.00(A)
17.938	17.938	(1.078)	85	1783382			0.00-	30.00	64.06

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	2233509	20.0000	20.568	70.00-	130.00	100.00(A)
18.786	18.786	(1.128)	77	705803			0.00-	30.00	31.60
18.786	18.786	(1.128)	39	1027000			16.72-	76.72	45.98

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	2896046	20.0000	20.654	70.00-	130.00	100.00(A)
18.987	18.987	(1.141)	58	1189828			0.00-	30.00	41.08
18.987	18.987	(1.141)	85	557959			0.00-	30.00	19.27

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	4667534	20.0000	19.660	70.00-	130.00	100.00
19.346	19.346	(1.162)	92	2759344			0.00-	30.00	59.12

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	2334998	20.0000	20.937	70.00-	130.00	100.00(A)
19.749	19.749	(0.920)	77	740729			0.00-	30.00	31.72
19.749	19.749	(0.920)	39	1017519			14.90-	74.90	43.58

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	1630630	20.0000	19.798	70.00- 130.00	100.00	
20.036	20.036	(0.934)	99	1016833			0.00- 30.00	62.36	
20.036	20.036	(0.934)	83	1404669			54.89- 114.89	86.14	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	2190009	20.0000	19.386	70.00- 130.00	100.00	
20.199	20.199	(0.941)	129	1699829			0.00- 30.00	77.62	
20.199	20.199	(0.941)	131	1636756			0.00- 30.00	74.74	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	1581423	20.0000	20.994	70.00- 130.00	100.00(A)	
20.329	20.329	(0.947)	43	2772445			0.00- 30.00	175.31	
20.329	20.329	(0.947)	100	369481			0.00- 30.00	23.36	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	2809969	20.0000	22.561	70.00- 130.00	100.00(A)	
20.654	20.654	(0.963)	127	2174982			0.00- 30.00	77.40	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	2529912	20.0000	19.917	70.00- 130.00	100.00	
20.881	20.881	(0.973)	109	2389267			0.00- 30.00	94.44	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	3638547	20.0000	19.391	70.00- 130.00	100.00	
21.504	21.504	(1.002)	114	1171863			0.00- 30.00	32.21	
21.504	21.504	(1.002)	77	2340357			34.50- 94.50	64.32	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	1814728	20.0000	20.145	70.00- 130.00	100.00(A)	
21.576	21.576	(1.006)	91	5612780			0.00- 30.00	309.29	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	1944694	20.0000	20.527	70.00- 130.00	100.00(A)	
21.721	21.721	(1.012)	91	3805471			0.00- 30.00	195.68	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	1879924	20.0000	20.814	70.00- 130.00	100.00(A)	
22.251	22.251	(1.037)	91	3895397			0.00- 30.00	207.21	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	3111972	20.0000	21.811	70.00- 130.00	100.00(A)	
22.275	22.275	(1.038)	78	1529870			0.00- 30.00	49.16	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	2605689	20.0000	23.282	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	1343788			0.00-	30.00	51.57

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	5664667	20.0000	21.228	70.00-	130.00	100.00(A)
22.676	22.676	(1.057)	120	1509132			0.00-	30.00	26.64

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	3543333	20.0000	20.333	70.00-	130.00	100.00(A)
23.063	23.063	(1.075)	85	2301242			0.00-	30.00	64.95

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	5578819	20.0000	22.196	70.00-	130.00	100.00(A)
23.140	23.140	(1.078)	120	1286181			0.00-	30.00	23.05

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	4262228	20.0000	22.088	70.00-	130.00	100.00(A)
23.269	23.269	(1.085)	120	1277583			0.00-	30.00	29.97

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	3271252	20.0000	21.565	70.00-	130.00	100.00(A)
23.321	23.321	(1.087)	120	1559677			0.00-	30.00	47.68

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	2373250	20.0000	21.921	70.00-	130.00	100.00(A)
23.759	23.759	(1.107)	120	1094540			0.00-	30.00	46.12

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	2700965	20.0000	20.374	70.00-	130.00	100.00(A)
24.120	24.120	(1.124)	148	1727517			0.00-	30.00	63.96
24.120	24.120	(1.124)	111	1094858			0.00-	30.00	40.54

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	2414948	20.0000	19.798	70.00-	130.00	100.00
24.223	24.223	(1.129)	148	1538333			0.00-	30.00	63.70
24.223	24.223	(1.129)	111	948571			0.00-	30.00	39.28

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	4367700	20.0000	23.671	70.00-	130.00	100.00(A)
24.352	24.352	(1.135)	126	899573			0.00-	30.00	20.60

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	2328566	20.0000	20.704	70.00-	130.00	100.00(A)
24.636	24.636	(1.148)	148	1492787			33.90-	93.90	64.11
24.636	24.636	(1.148)	111	988722			12.45-	72.45	42.46

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	886737	20.0000	24.914	70.00- 130.00	100.00(A)	
26.338	26.338	(1.228)	182	842756			0.00- 30.00	95.04	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	1332197	20.0000	24.147	70.00- 130.00	100.00(A)	
26.416	26.416	(1.231)	223	842363			0.00- 30.00	63.23	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	1433791	20.0000	23.231	70.00- 130.00	100.00(A)	
26.648	26.648	(1.242)	127	180137			0.00- 30.00	12.56	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091515.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 10
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m	
Misc Info: 20ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	409470	-1.46
66 1,4-Difluorobenze	1700376	1020226	2380526	1706978	0.39
88 Chlorobenzene-d5	1561316	936790	2185842	1578124	1.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/15Sep2010.b/a091516.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 15-SEP-2010 18:18
Operator : ra Inst ID: msda.i
Smp Info : 200ml #1936-327
Misc Info : 40ppbv (50ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 16:12 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 18:18 Cal File: a091516.d
Als bottle: 2 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	395891	10.0000		70.00-	130.00	100.00
15.255	15.255	(1.000)	128	312998			0.00-	30.00	79.06
15.255	15.255	(1.000)	49	505929			0.00-	30.00	127.80

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1682466	10.0000		70.00-	130.00	100.00
16.647	16.647	(1.000)	88	275071			0.00-	30.00	16.35

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1584075	10.0000		70.00-	130.00	100.00
21.456	21.456	(1.000)	82	911242			0.00-	30.00	57.53

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	617172	10.0000	10.725	70.00-	130.00	100.00
16.098	16.098	(1.055)	67	429612			0.00-	30.00	69.61

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1737305	10.0000	10.138	70.00-	130.00	100.00
19.234	19.234	(1.155)	70	200160			0.00-	30.00	11.52

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	1154462			36.45- 96.45	66.45	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	854643	10.0000	10.559	70.00- 130.00	100.00	
22.934	22.934	(1.069)	95	1136428			102.74- 162.74	132.97	
22.934	22.934	(1.069)	176	826658			66.81- 126.81	96.73	

2 Propylene CAS #: 115-07-1									
4.770	4.770	(0.313)	41	1461821	40.0000	37.796	70.00- 130.00	100.00(A)	
4.770	4.770	(0.313)	42	971946			0.00- 30.00	66.49	
4.770	4.770	(0.313)	39	1080987			0.00- 30.00	73.95	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.276	5.276	(0.346)	85	6126097	40.0000	38.522	70.00- 130.00	100.00(A)	
5.276	5.276	(0.346)	87	1977350			2.29- 62.29	32.28	

6 Freon 114 CAS #: 76-14-2									
6.746	6.746	(0.442)	135	4002934	40.0000	38.028	70.00- 130.00	100.00(A)	
6.746	6.746	(0.442)	137	1274876			0.00- 30.00	31.85	

7 Chloromethane CAS #: 74-87-3									
7.035	7.035	(0.461)	50	1856531	40.0000	37.417	70.00- 130.00	100.00(A)	
7.035	7.035	(0.461)	52	616510			0.00- 30.00	33.21	

9 Butane CAS #: 106-97-8									
7.779	7.779	(0.510)	58	455648	40.0000	39.348	70.00- 130.00	100.00	
7.779	7.779	(0.510)	43	2992677			0.00- 30.00	656.80	

10 Vinyl Chloride CAS #: 75-01-4									
7.900	7.900	(0.518)	62	2203413	40.0000	37.963	70.00- 130.00	100.00(A)	
7.900	7.900	(0.518)	64	703441			1.85- 61.85	31.93	

11 1,3-Butadiene CAS #: 106-99-0									
8.126	8.126	(0.533)	54	1544926	40.0000	38.442	70.00- 130.00	100.00(A)	
8.126	8.126	(0.533)	39	1468493			0.00- 30.00	95.05	

12 Bromomethane CAS #: 74-83-9									
9.542	9.542	(0.626)	94	1390104	40.0000	44.392	70.00- 130.00	100.00(A)	
9.542	9.542	(0.626)	96	1307522			61.29- 121.29	94.06	

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	1134858	40.0000	43.517	70.00- 130.00	100.00(A)	
9.998	9.998	(0.655)	66	374973			0.00- 30.00	33.04	

14 Isopentane CAS #: 78-78-4									
10.144	10.144	(0.665)	57	1698276	40.0000	39.401	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)									
10.144	10.144	(0.665)	43	2240491			0.00-	30.00	131.93
10.144	10.144	(0.665)	42	1958871			0.00-	30.00	115.34

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	5712854	40.0000	38.625	70.00-	130.00	100.00(A)
10.724	10.724	(0.703)	103	3702001			34.52-	94.52	64.80

20 Ethanol CAS #: 64-17-5									
11.574	11.574	(0.759)	45	457337	40.0000	25.784	70.00-	130.00	100.00(A)
11.574	11.574	(0.759)	43	104069			0.00-	30.00	22.76
11.574	11.574	(0.759)	46	181039			0.00-	30.00	39.59

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	2844745	40.0000	30.617	70.00-	130.00	100.00(A)
12.009	12.009	(0.787)	153	1820062			34.75-	94.75	63.98
12.009	12.009	(0.787)	101	3502887			0.00-	30.00	123.14

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	947413	40.0000	27.472	70.00-	130.00	100.00(A)
12.009	12.009	(0.787)	61	2103316			0.00-	30.00	222.01
12.030	12.030	(0.789)	96	1471715			0.00-	30.00	155.34

24 Acetone CAS #: 67-64-1									
12.279	12.279	(0.805)	58	471557	40.0000	20.045	70.00-	130.00	100.00(A)
12.279	12.279	(0.805)	43	1453404			0.00-	30.00	308.21

26 Carbon Disulfide CAS #: 75-15-0									
12.362	12.362	(0.810)	76	6130188	40.0000	39.456	70.00-	130.00	100.00

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	856034	40.0000	43.754	70.00-	130.00	100.00(A)
12.776	12.776	(0.837)	41	2243656			0.00-	30.00	262.10

27 2-Propanol CAS #: 67-63-0									
12.590	12.590	(0.825)	45	3331903	40.0000	37.513	70.00-	130.00	100.00(A)
12.590	12.590	(0.825)	43	666301			0.00-	30.00	20.00
12.590	12.590	(0.825)	59	141180			0.00-	30.00	4.24

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	1884172	40.0000	36.142	70.00-	130.00	100.00
13.037	13.037	(0.855)	49	2222034			0.00-	30.00	117.93
13.037	13.037	(0.855)	51	687295			0.00-	30.00	36.48

34 tert-butyl alcohol CAS #: 75-65-0									
13.257	13.257	(0.869)	59	4328398	40.0000	41.970	70.00-	130.00	100.00(A)

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.257	13.257	(0.869)	41	965936			0.00-	30.00	22.32
13.257	13.257	(0.869)	57	443426			0.00-	30.00	10.24

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	6906624	40.0000	40.119	70.00-	130.00	100.00(A)
13.367	13.367	(0.876)	57	1458917			0.00-	30.00	21.12
13.367	13.367	(0.876)	41	1393716			0.00-	30.00	20.18

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.422	13.422	(0.880)	98	1560354	40.0000	39.023	70.00-	130.00	100.00(A)
13.422	13.422	(0.880)	61	3334370			0.00-	30.00	213.69
13.422	13.422	(0.880)	96	2468564			0.00-	30.00	158.21

40 Hexane CAS #: 110-54-3									
13.724	13.724	(0.900)	57	3634641	40.0000	37.812	70.00-	130.00	100.00(A)
13.724	13.724	(0.900)	43	2231672			0.00-	30.00	61.40
13.724	13.724	(0.900)	86	719314			0.00-	30.00	19.79

41 Isopropyl ether CAS #: 108-20-3									
14.080	14.080	(0.923)	45	7543188	40.0000	40.151	70.00-	130.00	100.00(A)
14.080	14.080	(0.923)	87	2342733			0.00-	30.00	31.06
14.080	14.080	(0.923)	59	911851			0.00-	30.00	12.09

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	4144553	40.0000	37.149	70.00-	130.00	100.00(A)
14.108	14.108	(0.925)	65	1337252			0.00-	30.00	32.27

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	679093	40.0000	44.149	70.00-	130.00	100.00(A)
14.135	14.135	(0.927)	42	808636			0.00-	30.00	119.08
14.135	14.135	(0.927)	43	9275506			0.00-	30.00	1365.87

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	7416177	40.0000	41.322	70.00-	130.00	100.00(A)
14.562	14.562	(0.955)	87	3314417			0.00-	30.00	44.69
14.562	14.562	(0.955)	41	1293746			0.00-	30.00	17.44

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	1299673	40.0000	40.044	70.00-	130.00	100.00(A)
14.915	14.915	(0.978)	43	4484538			0.00-	30.00	345.05
14.915	14.915	(0.978)	57	367250			0.00-	30.00	28.26

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.935	14.935	(0.979)	98	1564205	40.0000	38.595	70.00-	130.00	100.00(A)
14.915	14.915	(0.978)	61	3043753			0.00-	30.00	194.59

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
47 cis-1,2-Dichloroethene (continued)									
14.915	14.915	(0.978)	96	2440686			128.14- 188.14	156.03	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	2412531	40.0000	38.805	70.00- 130.00	100.00(A)	
15.255	15.255	(1.000)	71	1050625			0.00- 30.00	43.55	
15.255	15.255	(1.000)	72	1163091			0.00- 30.00	48.21	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	4736503	40.0000	37.506	70.00- 130.00	100.00(A)	
15.348	15.348	(1.006)	85	3087591			0.00- 30.00	65.19	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.594	15.594	(1.022)	97	5106420	40.0000	39.594	70.00- 130.00	100.00(A)	
15.594	15.594	(1.022)	99	3283835			0.00- 30.00	64.31	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	3606372	40.0000	39.561	70.00- 130.00	100.00(A)	
15.594	15.594	(1.022)	56	3729095			0.00- 30.00	103.40	
15.594	15.594	(1.022)	41	1971958			0.00- 30.00	54.68	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	5035736	40.0000	38.321	70.00- 130.00	100.00(A)	
15.779	15.779	(1.034)	117	5227804			0.00- 30.00	103.81	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	3695990	40.0000	35.448	70.00- 130.00	100.00(A)	
16.043	16.043	(1.052)	57	11033997			0.00- 30.00	298.54	
16.043	16.043	(1.052)	41	2811185			0.00- 30.00	76.06	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	7687216	40.0000	36.637	70.00- 130.00	100.00(A)	
16.098	16.098	(0.967)	77	1804025			0.00- 30.00	23.47	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	1795837	40.0000	41.534	70.00- 130.00	100.00(A)	
16.153	16.153	(0.970)	73	7493164			0.00- 30.00	417.25	
16.153	16.153	(0.970)	55	1825799			0.00- 30.00	101.67	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	3224397	40.0000	36.087	70.00- 130.00	100.00(A)	
16.208	16.208	(0.974)	64	1034430			0.00- 30.00	32.08	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	2202493	40.0000	37.457	70.00- 130.00	100.00(A)	
16.290	16.290	(0.979)	100	1074165			0.00- 30.00	48.77	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
64 Heptane (continued)									
16.290	16.290	(0.979)	43	3964807			0.00- 30.00	180.01	

67 Trichloroethene CAS #: 79-01-6									
17.087	17.087	(1.026)	130	3465793	40.0000	38.312	70.00- 130.00	100.00(A)	
17.059	17.059	(1.025)	95	3329077			0.00- 30.00	96.06	
17.059	17.059	(1.025)	97	2173433			0.00- 30.00	62.71	

69 Methylcyclohexane CAS #: 108-87-2									
17.334	17.334	(1.041)	83	4760597	40.0000	39.844	70.00- 130.00	100.00	
17.334	17.334	(1.041)	98	2282929			0.00- 30.00	47.95	
17.334	17.334	(1.041)	55	3404686			0.00- 30.00	71.52	

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	2724369	40.0000	37.383	70.00- 130.00	100.00(A)	
17.526	17.526	(1.053)	62	1927238			0.00- 30.00	70.74	
17.526	17.526	(1.053)	41	1433273			25.72- 85.72	52.61	

74 1,4-Dioxane CAS #: 123-91-1									
17.663	17.663	(1.061)	88	1802283	40.0000	37.874	70.00- 130.00	100.00(A)	
17.663	17.663	(1.061)	58	1163073			0.00- 30.00	64.53	
17.663	17.663	(1.061)	57	363126			0.00- 30.00	20.15	

76 Bromodichloromethane CAS #: 75-27-4									
17.965	17.965	(1.079)	83	5391747	40.0000	40.708	70.00- 130.00	100.00(A)	
17.965	17.965	(1.079)	85	3448212			0.00- 30.00	63.95	

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	4344334	40.0000	40.590	70.00- 130.00	100.00(A)	
18.786	18.786	(1.128)	77	1377834			0.00- 30.00	31.72	
18.786	18.786	(1.128)	39	1970612			16.72- 76.72	45.36	

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	5592268	40.0000	40.464	70.00- 130.00	100.00(A)	
18.987	18.987	(1.141)	58	2325388			0.00- 30.00	41.58	
18.987	18.987	(1.141)	85	1106851			0.00- 30.00	19.79	

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	9033528	40.0000	38.604	70.00- 130.00	100.00(A)	
19.346	19.346	(1.162)	92	5386217			0.00- 30.00	59.62	

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	4557801	40.0000	40.714	70.00- 130.00	100.00(A)	
19.749	19.749	(0.920)	77	1440664			0.00- 30.00	31.61	
19.749	19.749	(0.920)	39	1950148			14.90- 74.90	42.79	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.069	20.069	(0.935)	97	3182509	40.0000	38.496	70.00- 130.00	100.00(A)	
20.069	20.069	(0.935)	99	1996971			0.00- 30.00	62.75	
20.069	20.069	(0.935)	83	2703114			54.89- 114.89	84.94	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	4255227	40.0000	37.526	70.00- 130.00	100.00(A)	
20.199	20.199	(0.941)	129	3305706			0.00- 30.00	77.69	
20.199	20.199	(0.941)	131	3177697			0.00- 30.00	74.68	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	3177580	40.0000	42.026	70.00- 130.00	100.00(A)	
20.329	20.329	(0.947)	43	5443270			0.00- 30.00	171.30	
20.329	20.329	(0.947)	100	750131			0.00- 30.00	23.61	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	5672175	40.0000	45.371	70.00- 130.00	100.00(A)	
20.654	20.654	(0.963)	127	4386920			0.00- 30.00	77.34	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	5017155	40.0000	39.351	70.00- 130.00	100.00(A)	
20.881	20.881	(0.973)	109	4724517			0.00- 30.00	94.17	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	7135572	40.0000	37.885	70.00- 130.00	100.00(A)	
21.504	21.504	(1.002)	114	2311259			0.00- 30.00	32.39	
21.504	21.504	(1.002)	77	4509096			34.50- 94.50	63.19	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	3563505	40.0000	39.409	70.00- 130.00	100.00(A)	
21.576	21.576	(1.006)	91	10974068			0.00- 30.00	307.96	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	3945187	40.0000	41.486	70.00- 130.00	100.00(A)	
21.721	21.721	(1.012)	91	7672181			0.00- 30.00	194.47	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	3830199	40.0000	42.248	70.00- 130.00	100.00(A)	
22.251	22.251	(1.037)	91	7866522			0.00- 30.00	205.38	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	6359084	40.0000	44.402	70.00- 130.00	100.00(A)	
22.275	22.275	(1.038)	78	3108392			0.00- 30.00	48.88	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	5282610	40.0000	47.022	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	2746781			0.00- 30.00	52.00	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	11377186	40.0000	42.476	70.00- 130.00	100.00(A)	
22.676	22.676	(1.057)	120	3071088			0.00- 30.00	26.99	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	6945272	40.0000	39.706	70.00- 130.00	100.00(A)	
23.063	23.063	(1.075)	85	4490248			0.00- 30.00	64.65	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	11140694	40.0000	44.158	70.00- 130.00	100.00(A)	
23.140	23.140	(1.078)	120	2610237			0.00- 30.00	23.43	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	8738526	40.0000	45.115	70.00- 130.00	100.00(A)	
23.269	23.269	(1.085)	120	2632952			0.00- 30.00	30.13	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	6853134	40.0000	45.008	70.00- 130.00	100.00(A)	
23.321	23.321	(1.087)	120	3281345			0.00- 30.00	47.88	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	4936651	40.0000	45.426	70.00- 130.00	100.00(A)	
23.759	23.759	(1.107)	120	2296562			0.00- 30.00	46.52	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	5394991	40.0000	40.542	70.00- 130.00	100.00(A)	
24.120	24.120	(1.124)	148	3468868			0.00- 30.00	64.30	
24.120	24.120	(1.124)	111	2208732			0.00- 30.00	40.94	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	4953977	40.0000	40.460	70.00- 130.00	100.00(A)	
24.223	24.223	(1.129)	148	3148133			0.00- 30.00	63.55	
24.223	24.223	(1.129)	111	1925570			0.00- 30.00	38.87	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	8688460	40.0000	46.911	70.00- 130.00	100.00(A)	
24.352	24.352	(1.135)	126	1831914			0.00- 30.00	21.08	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	4699880	40.0000	41.630	70.00- 130.00	100.00(A)	
24.636	24.636	(1.148)	148	2999465			33.90- 93.90	63.82	
24.636	24.636	(1.148)	111	1999011			12.45- 72.45	42.53	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	1914926	40.0000	53.599	70.00- 130.00	100.00	(A)
26.338	26.338	(1.228)	182	1823394			0.00- 30.00	95.22	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	2845294	40.0000	51.379	70.00- 130.00	100.00	(A)
26.416	26.416	(1.231)	223	1785834			0.00- 30.00	62.76	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	3007619	40.0000	48.548	70.00- 130.00	100.00	(A)
26.648	26.648	(1.242)	127	369699			0.00- 30.00	12.29	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091516.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 11
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ra	
Method File: /chem/msda.i/15Sep2010.b/a1010915a.m	
Misc Info: 40ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	415545	249327	581763	395891	-4.73
66 1,4-Difluorobenze	1700376	1020226	2380526	1682466	-1.05
88 Chlorobenzene-d5	1561316	936790	2185842	1584075	1.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 15-SEP-2010 18:18

Client ID: Level 11

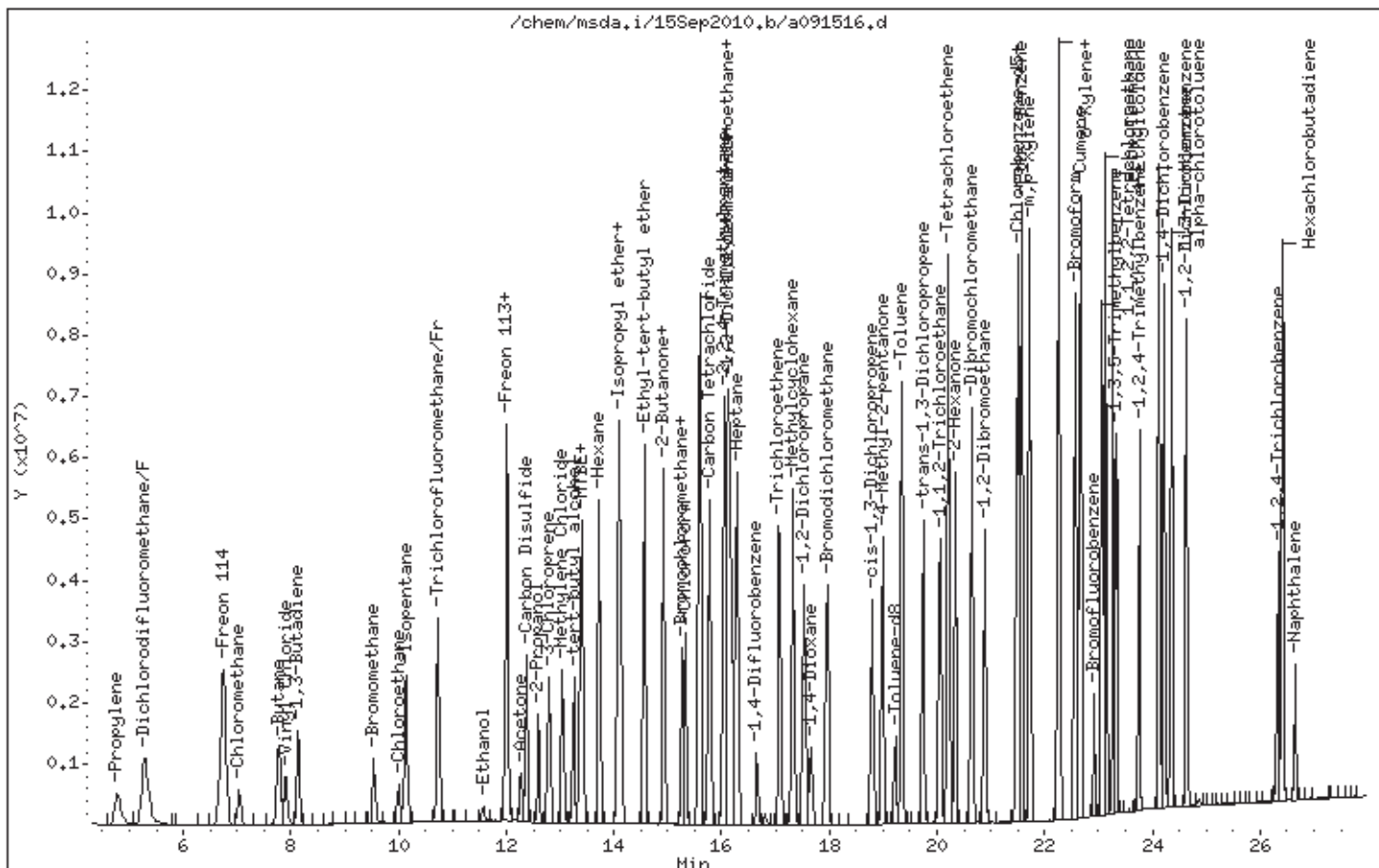
Instrument: msda.i

Sample Info: 200ml #1936-327

Operator: ra

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092014.d
Lab Smp Id: ICAL Client Smp ID: Level 12
Inj Date : 20-SEP-2010 19:16
Operator : ea Inst ID: msda.i
Smp Info : 125mL #1936-321
Misc Info : 1.0ppbv (2ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:49 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 19:16 Cal File: a092014.d
Als bottle: 1 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Nonane.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	422981	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	331998				48.35- 108.35	78.49
15.255	15.255	(1.000)	49	497696				89.31- 149.31	117.66

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1779156	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	283599				0.00- 46.24	15.94

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1630700	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	903486				25.95- 85.95	55.40

90 Nonane CAS #: 111-84-2									
21.576	21.576	(1.006)	43	48696	1.00000	0.9670		0.00- 30.00	100.00
21.576	21.576	(1.006)	57	44965				0.00- 30.00	92.34
21.576	21.576	(1.006)	85	20194				0.00- 30.00	41.47

Date : 20-SEP-2010 19:16

Client ID: Level 12

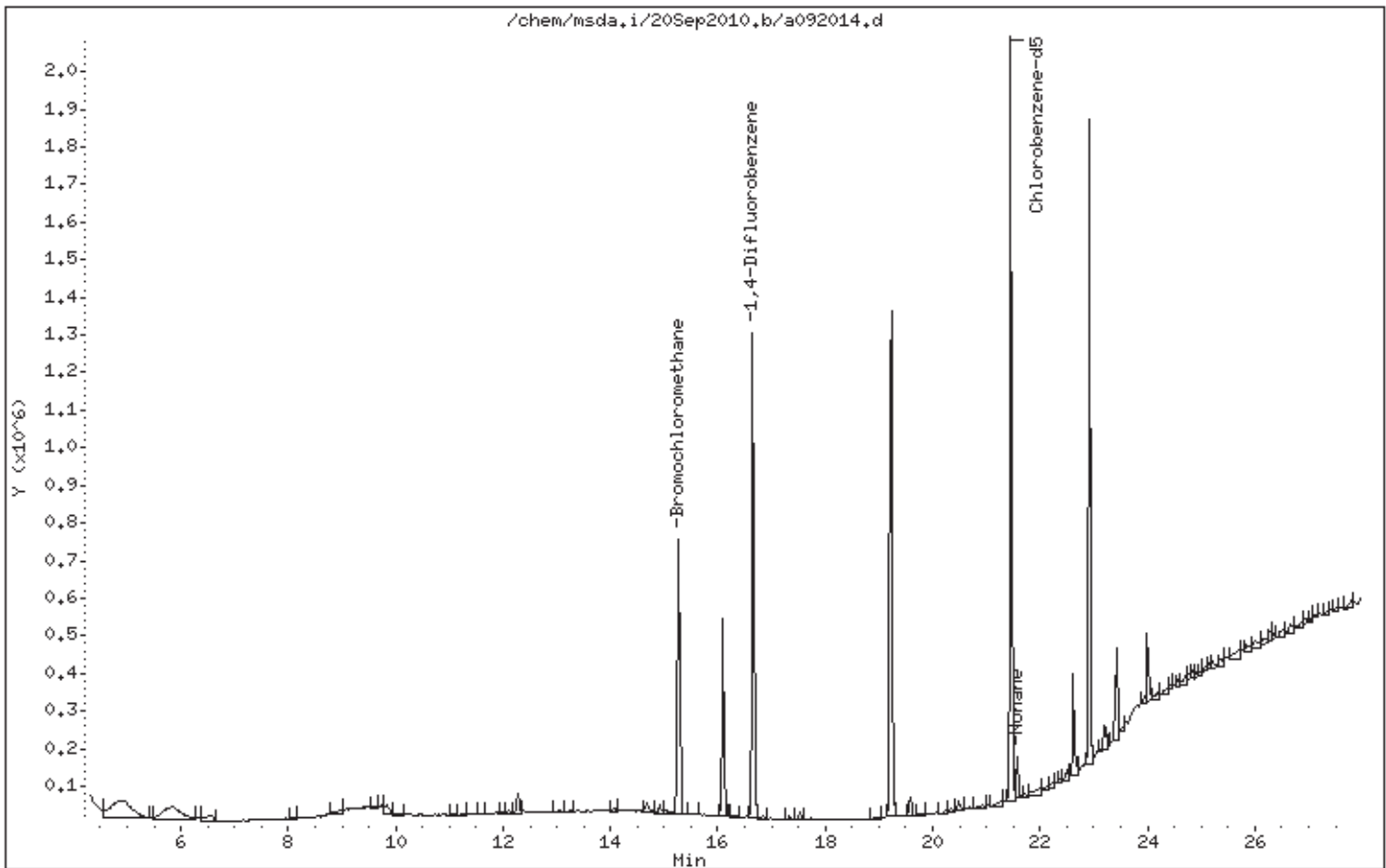
Instrument: msda.i

Sample Info: 125mL #1936-321

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092006.d
Lab Smp Id: ICAL Client Smp ID: Level 12
Inj Date : 20-SEP-2010 13:36
Operator : ej Inst ID: msda.i
Smp Info : 50mL #1936-323
Misc Info : 1.0ppbv (5ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:48 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 19:16 Cal File: a092014.d
Als bottle: 1 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	453927	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	357004				47.34- 107.34	78.65
15.255	15.255	(1.000)	49	535481				87.98- 147.98	117.97

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1898295	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	304085				0.00- 45.99	16.02

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1719224	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	957384				26.23- 86.23	55.69

15 Vinyl Bromide CAS #: 593-60-2									
10.558	10.558	(0.692)	106	49976	1.00000	0.9773		70.00- 130.00	100.00
10.558	10.558	(0.692)	108	48220				64.72- 124.72	96.49

31 Acetonitrile CAS #: 75-05-8									
12.900	12.900	(0.846)	40	38189	1.00000	0.9555		70.00- 130.00	100.00(H)
12.900	12.900	(0.846)	41	75041				161.35- 221.35	196.50

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
31 Acetonitrile (continued)									
12.900	12.900	(0.846)	39	14923			9.43- 69.43	39.08	

37 Acrylonitrile									
						CAS #: 107-13-1			
13.531	13.531	(0.887)	53	46647	1.00000	0.9575	70.00- 130.00	100.00(H)	
13.531	13.531	(0.887)	52	38813			51.80- 111.80	83.21	

43 Chloroprene									
						CAS #: 126-99-8			
14.190	14.190	(0.930)	53	77818	1.00000	0.9764	70.00- 130.00	100.00(H)	
14.190	14.190	(0.930)	88	49385			34.80- 94.80	63.46	

QC Flag Legend

H - Operator selected an alternate compound hit.

Date : 20-SEP-2010 13:36

Client ID: Level 12

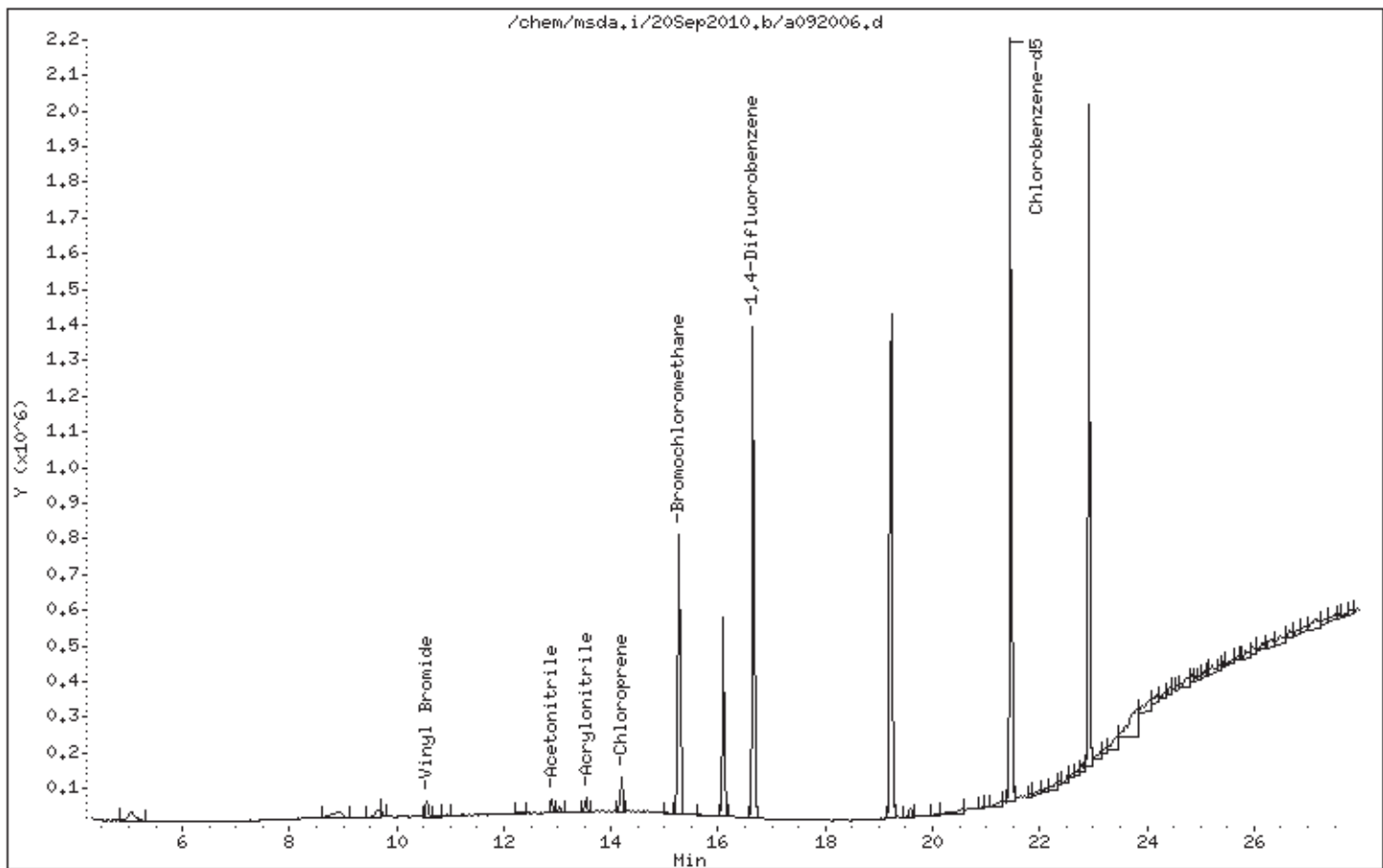
Instrument: msda.i

Sample Info: 50mL #1936-323

Operator: ej

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/20Sep2010.b/a092007.d
Lab Smp Id: ICAL Client Smp ID: Level 13
Inj Date : 20-SEP-2010 14:11
Operator : ej Inst ID: msda.i
Smp Info : 75mL #1936-323
Misc Info : 1.5ppbv (5ppbv)
Comment :
Method : /chem/msda.i/20Sep2010.b/a1010915a.m
Meth Date : 21-Sep-2010 17:48 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 14:11 Cal File: a092007.d
Als bottle: 1 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	452610	10.0000			70.00- 130.00	100.00
15.255	15.255	(1.000)	128	351921				47.34- 107.34	77.75
15.255	15.255	(1.000)	49	531098				87.98- 147.98	117.34

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1917548	10.0000			70.00- 130.00	100.00
16.647	16.647	(1.000)	88	306029				0.00- 45.99	15.96

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1748529	10.0000			70.00- 130.00	100.00
21.456	21.456	(1.000)	82	973788				26.23- 86.23	55.69

15 Vinyl Bromide CAS #: 593-60-2									
10.558	10.558	(0.692)	106	76346	1.50000	1.497		70.00- 130.00	100.00
10.558	10.558	(0.692)	108	71137				64.72- 124.72	93.18

31 Acetonitrile CAS #: 75-05-8									
12.900	12.900	(0.846)	40	58059	1.50000	1.457		70.00- 130.00	100.00
12.900	12.900	(0.846)	41	111908				161.35- 221.35	192.75

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
31 Acetonitrile (continued)									
12.900	12.900	(0.846)	39	21799			9.43- 69.43	37.55	

37 Acrylonitrile									
						CAS #: 107-13-1			
13.531	13.531	(0.887)	53	71723	1.50000	1.476	70.00- 130.00	100.00	
13.531	13.531	(0.887)	52	59096			51.80- 111.80	82.39	

43 Chloroprene									
						CAS #: 126-99-8			
14.190	14.190	(0.930)	53	118022	1.50000	1.485	70.00- 130.00	100.00	
14.190	14.190	(0.930)	88	77958			34.80- 94.80	66.05	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 20-SEP-2010
Lab File ID: a092007.d	Calibration Time: 10:29
Lab Smp Id: ICAL	Client Smp ID: Level 13
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ej	
Method File: /chem/msda.i/20Sep2010.b/a1010915a.m	
Misc Info: 1.5ppbv (5ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	471799	283079	660519	452610	-4.07
66 1,4-Difluorobenze	1948064	1168838	2727290	1917548	-1.57
88 Chlorobenzene-d5	1784561	1070737	2498385	1748529	-2.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 20-SEP-2010 14:11

Client ID: Level 13

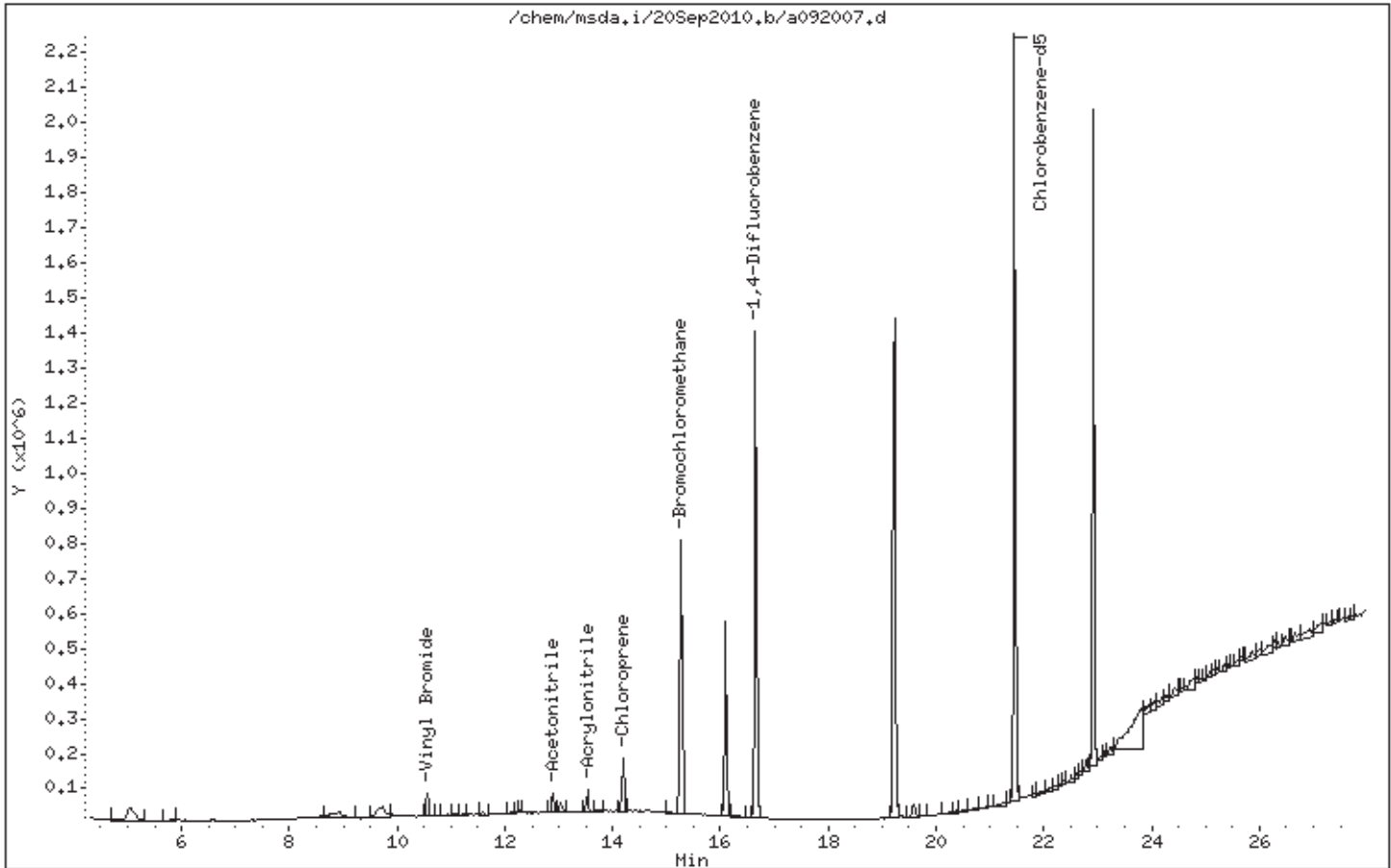
Instrument: msda.i

Sample Info: 75mL #1936-323

Operator: ej

Column phase: RTX-624

Column diameter: 0.32



Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
 End Cal Date : 15-SEP-2010 17:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Calibration File Names:

- Level 1: /chem/msda.i/15Sep2010.b/a091506sim.d
- Level 2: /chem/msda.i/15Sep2010.b/a091507sim.d
- Level 3: /chem/msda.i/15Sep2010.b/a091508sim.d
- Level 4: /chem/msda.i/15Sep2010.b/a091509sim.d
- Level 5: /chem/msda.i/15Sep2010.b/a091510sim.d
- Level 6: /chem/msda.i/15Sep2010.b/a091511sim.d
- Level 7: /chem/msda.i/15Sep2010.b/a091512sim.d
- Level 8: /chem/msda.i/15Sep2010.b/a091513sim.d
- Level 9: /chem/msda.i/15Sep2010.b/a091514sim.d
- Level 10: /chem/msda.i/15Sep2010.b/a091515sim.d

Compound	0.00300	0.01000	0.02000	0.05000	0.10000	0.50000	---	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	2.000	5.000	10.000	20.000				
	Level 7	Level 8	Level 9	Level 10				
1 Dichlorodifluoromethane/Fr12	+++++	+++++	4.35709	4.11925	4.95012	3.63259		
	3.59365	4.41618	4.18085	3.95020			4.14999	10.672
2 Propylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
3 Freon 114	+++++	+++++	2.75829	2.69944	3.06937	2.28419		
	2.37030	2.78290	2.67417	2.54935			2.64850	9.363
4 Chloromethane	+++++	+++++	+++++	1.53171	1.56999	1.08923		
	1.08076	1.30735	1.24948	1.16974			1.28546	15.467
5 Vinyl Chloride	+++++	1.86135	1.63587	1.49340	1.80439	1.29567		
	1.28071	1.60778	1.49741	1.43798			1.54606	13.096
6 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
 End Cal Date : 15-SEP-2010 17:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300 Level 1	0.01000 Level 2	0.02000 Level 3	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	RRF	% RSD
	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10				
7 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Chloroethane	+++++	+++++	+++++	0.68705 0.69096	0.55690	0.50186	0.63312	13.092
10 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Trichlorofluoromethane/Fr11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 1,1-Dichloroethene	+++++	1.12891 1.01809	0.93591 0.94154	0.92477 0.90820	1.13261	0.79002	0.95267	12.990
13 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300 Level 1	0.01000 Level 2	0.02000 Level 3	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	— RRF	% RSD
	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10				
17 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 MTBE	+++++	+++++	3.98857	4.03000	4.90674	3.45381	4.07258	12.338
22 trans-1,2-Dichloroethene	+++++	+++++	1.05950	1.02317	1.28357	0.88484	1.04193	12.896
23 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 1,1-Dichloroethane	+++++	+++++	2.94592	2.85095	3.46867	2.44836	2.85244	11.951
26 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
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 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300 Level 1	0.01000 Level 2	0.02000 Level 3	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	— RRF	% RSD
	2.000	5.000	10.000	20.000				
	Level 7	Level 8	Level 9	Level 10				
27 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
28 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
29 cis-1,2-Dichloroethene	+++++	+++++	1.08759	1.02883	1.27272	0.88539		
	0.88100	1.14494	1.04525	1.01831			1.04550	12.366
30 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
32 Chloroform	+++++	4.45515	3.41107	3.26501	4.11300	2.82170		
	2.75876	3.56934	3.23927	3.12820			3.41794	16.392
33 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
34 1,1,1-Trichloroethane	+++++	+++++	3.37174	3.29810	4.04527	2.82472		
	2.78802	3.68875	3.35189	3.29376			3.33278	12.391
35 Carbon Tetrachloride	+++++	3.34640	3.03580	2.95850	3.64685	2.58860		
	2.60189	3.46877	3.18917	3.14431			3.10892	11.590
36 Benzene	+++++	+++++	+++++	1.48575	1.56223	1.09277		
	1.08202	1.32003	1.22664	1.16313			1.27608	14.808
38 1,2-Dichloroethane	+++++	0.50100	0.47681	0.51901	0.64043	0.46268		
	0.46909	0.58409	0.53841	0.51271			0.52269	11.123

Air Toxics Ltd.

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 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300 Level 1	0.01000 Level 2	0.02000 Level 3	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	— RRF	% RSD
	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10				
39 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Trichloroethene	0.79099 0.46913	0.62202 0.58242	0.58070 0.53988	0.55106 0.51966	0.64353	0.46326	0.57626	16.583
42 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-1,3-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Toluene	+++++ 1.19279	+++++ 1.45641	1.65325 1.37846	1.45264 1.30877	1.56650	1.16748	1.39704	12.205
49 trans-1,3-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 1,1,2-Trichloroethane	+++++ 0.48130	0.65586 0.60086	0.57157 0.55492	0.63166 0.52900	0.65437	0.47910	0.57318	11.896

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300	0.01000	0.02000	0.05000	0.10000	0.50000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	2.000	5.000	10.000	20.000				
	Level 7	Level 8	Level 9	Level 10				
51 Tetrachloroethene	1.04943	0.90574	0.81374	0.82328	0.91221	0.66618		
	0.67672	0.83917	0.77800	0.72780			0.81923	14.291
52 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
53 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
54 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
55 1,2-Dibromoethane	+++++	+++++	0.82895	0.83573	0.95247	0.68910		
	0.72118	0.91468	0.85180	0.80820			0.82526	10.708
57 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
58 Ethyl Benzene	+++++	+++++	0.57219	0.54716	0.60249	0.44304		
	0.46130	0.57143	0.54758	0.52802			0.53415	10.376
59 m,p-Xylene	+++++	+++++	0.65384	0.57908	0.61908	0.45900		
	0.47979	0.59760	0.57571	0.57063			0.56684	11.682
60 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
61 o-Xylene	+++++	+++++	0.54549	0.53664	0.57743	0.43075		
	0.45436	0.56548	0.54533	0.54495			0.52506	10.085

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
 End Cal Date : 15-SEP-2010 17:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300 Level 1	0.01000 Level 2	0.02000 Level 3	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	— RRF	% RSD
	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10				
62 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 1,1,2,2-Tetrachloroethane	+++++	1.40005 1.02092	1.27633 1.18284	1.25475 1.14587	1.28314	0.95551	1.19642	11.561
68 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
 End Cal Date : 15-SEP-2010 17:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

Compound	0.00300	0.01000	0.02000	0.05000	0.10000	0.50000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	2.000	5.000	10.000	20.000				
	Level 7	Level 8	Level 9	Level 10				
73 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
74 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
75 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
76 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
77 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
78 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
\$ 37 1,2-Dichloroethane-d4	1.55363	1.53991	1.43883	1.42114	1.51876	1.43381		
	1.39583	1.49093	1.45840	1.55011			1.48014	3.926
\$ 47 Toluene-d8	0.88174	0.87551	0.88937	0.88341	0.87780	0.89254		
	0.89776	0.89669	0.90565	0.91299			0.89135	1.368
\$ 66 Bromofluorobenzene	0.49222	0.48567	0.49325	0.49621	0.49130	0.50196		
	0.50534	0.51503	0.52353	0.53561			0.50401	3.186

Calibration History

Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Start Cal Date: 15-SEP-2010 10:13
End Cal Date : 15-SEP-2010 17:24

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00300		
15-SEP-2010 10:13	3tcepce	/chem/msda.i/15Sep2010.b/a091506sim.d
Cal Level: 2 , Cal Amount: 0.01000		
15-SEP-2010 10:53	10	/chem/msda.i/15Sep2010.b/a091507sim.d
Cal Level: 3 , Cal Amount: 0.02000		
15-SEP-2010 12:05	20	/chem/msda.i/15Sep2010.b/a091508sim.d
Cal Level: 4 , Cal Amount: 0.05000		
15-SEP-2010 12:55	HILOcrv	/chem/msda.i/15Sep2010.b/a091509sim.d
Cal Level: 5 , Cal Amount: 0.10000		
15-SEP-2010 13:58	HILOcrv	/chem/msda.i/15Sep2010.b/a091510sim.d
Cal Level: 6 , Cal Amount: 0.50000		
15-SEP-2010 14:42	HILOcrv	/chem/msda.i/15Sep2010.b/a091511sim.d
Cal Level: 7 , Cal Amount: 2.00000		
15-SEP-2010 15:30	HILOcrv	/chem/msda.i/15Sep2010.b/a091512sim.d
Cal Level: 8 , Cal Amount: 5.00000		
15-SEP-2010 16:06	HILOcrv	/chem/msda.i/15Sep2010.b/a091513sim.d

```
+-----+-----+-----+
| Cal Level: 9 , Cal Amount: 10.00000                                |
+=====+
|15-SEP-2010 16:48 |HILOcrv          |/chem/msda.i/15Sep2010.b/a091514sim.d |
+-----+-----+-----+
```

```
+-----+-----+-----+
| Cal Level: 10, Cal Amount: 20.00000                                |
+=====+
|15-SEP-2010 17:24 |HILOcrv          |/chem/msda.i/15Sep2010.b/a091515sim.d |
+-----+-----+-----+
```

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

```
+-----+-----+-----+
| Ccal Level: 9 , Ccal Amount: 10.000                                |
+=====+
|15-SEP-2010 16:48 |HILOcrv          |/chem/msda.i/15Sep2010.b/a091514sima.d |
+-----+-----+-----+
```

```
+-----+-----+-----+
| Ccal Level: 9 , Ccal Amount: 10.000                                |
+=====+
|15-SEP-2010 16:48 |HILOcrv          |/chem/msda.i/15Sep2010.b/a091514sim.d |
+-----+-----+-----+
```

An initial calibration curve was analyzed on 09/15/2010 on MSD-A.

The LCS for the initial calibration was analyzed on 09/16/2010 within the 24hr clock.

The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

CR 09/16/10

MDL: 09/ /10

Air Toxics Ltd.

ICAL: Out

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2010 10:13
 End Cal Date : 15-SEP-2010 17:24
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Cal Date : 16-Sep-2010 11:27 croush
 Curve Type : Average

ICV: file# A091519sim;
 Can# 19108-237
 10ppm (50ppm) → 50mL
 ↳ Out

Calibration File Names:

- Level 1: /chem/msda.i/15Sep2010.b/a091506sim.d
- Level 2: /chem/msda.i/15Sep2010.b/a091507sim.d
- Level 3: /chem/msda.i/15Sep2010.b/a091508sim.d
- Level 4: /chem/msda.i/15Sep2010.b/a091509sim.d
- Level 5: /chem/msda.i/15Sep2010.b/a091510sim.d
- Level 6: /chem/msda.i/15Sep2010.b/a091511sim.d
- Level 7: /chem/msda.i/15Sep2010.b/a091512sim.d
- Level 8: /chem/msda.i/15Sep2010.b/a091513sim.d
- Level 9: /chem/msda.i/15Sep2010.b/a091514sim.d
- Level 10: /chem/msda.i/15Sep2010.b/a091515sim.d

Compound	0.00300	0.01000	0.02000	0.05000	0.10000	0.50000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
1 Dichlorodifluoromethane/Fr12	2.000	5.000	10.000	20.000				
	Level 7	Level 8	Level 9	Level 10				
	++++	++++	4.35709	4.11925	4.95012	3.63259		
	3.59365	4.41618	4.18085	3.95020			4.14999	10.672
2 Propylene	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++
3 Freon 114	++++	++++	2.75829	2.69944	3.06937	2.28419		
	2.37030	2.78290	2.67417	2.54935			2.64850	9.363
4 Chloromethane	++++	++++	++++	1.53171	1.56999	1.08923		
	1.08076	1.30735	1.24948	1.16974			1.28546	15.467
5 Vinyl Chloride	++++	1.86135	1.63587	1.49340	1.80439	1.29567		
	1.28071	1.60778	1.45741	1.43798			1.54606	13.096
6 1,3-Butadiene	++++	++++	++++	++++	++++	++++		
	++++	++++	++++	++++			++++	++++

CR 09/16/10

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	19.43
75	30.0 - 60.0% of mass 95	52.33
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	6.82
173	Less than 2.0% of mass 174	(0.42) ¹
174	50.0 - 100% of mass 95	71.14
175	5.0 - 9.0% of mass 174	(7.18) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.58) ¹
177	5.0 - 9.0% of mass 176	(6.66) ²

BFB Injection Date: 09/15/10
 BFB Injection Time: 0951
 BFB File ID: A 091505
 Tekmar Purge Flow: 2 cc
 Vacuum: 09/16/10
 IS/Std.#: 1968-210 Exp. Date: 11/16/10
 BCM 415545 (LD) 434303 (Sim)
 1,4-DFB 1700376 1769518
 CB-d5 1561316 1620049
 Verified CCV IS vs ICAL mid-point (-40%^D) CR
Initials

NOAH Cart #: NA File #: NA

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{Std}}} \times \frac{\text{Conc}_{\text{Std}}}{\text{RRF}} = \frac{(1741868)}{(1700376)} \times \frac{(10.00)}{(1.01850)} = 10.058$

File ID: A 091514a
 Compound: Toluene-d8
 Initials: CR

Method: A1010915A/A10109154

Reported Result 10.058

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	A091505	BFB Tune Check	1476 1754 1936 334	50 ng	20 ul	1.0	DB	9-15-10	0951	DB	
✓	06	ICAL Level 1	0.10 Spbvl	15 ml					1013		
✓	07		0.01 Spbvl	50 ml					1053		
✓	08		0.02 Spbvl	100 ml					1205		
✓	09		0.05 Spbvl	250 ml					1255		
✓	10		0.1 Spbvl	12.5 ml					1358		
✓	11		0.5 Spbvl	6.25 ml					1442		
✓	12		2.0 Spbvl	2.5 ml					1530		

C. J. [Signature]
 Signature

09/16/10
 Date

@ Air Toxics Ltd.

MSD-A

Logbook #: 2028

9	✓	AD9/15/13	ICAL Level 8	1936- 327	5.0ppbv	25ml	1.0	DB	9-15-10	1606	DB	
10	✓	14			10ppbv	50ml				1648		
11	✓	15			20ppbv	100ml				1724		
12	✓	16			40ppbv	200ml				1818		
13	X	17	System Blank	34384	Humid	250ml				2048		
14	X	18								2245		
15	✓	19	ICS (200ppbv)	1468- 337	10ppbv	50ml	1.0	DB	9-16-10	0821		
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

Comments:

CR 09/16/10

Patrick...
Signature

09/16/10
Date

Air Toxics Ltd.
 Modified EPA Methods TO-14A/TO-15 Low Level
 Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091519sim.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 16-SEP-2010 08:21
Operator : db Inst ID: msda.i
Smp Info : 50ml #1968-237
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 11:35 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	448958	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	346862				0.00- 30.00	77.26
15.269	15.269	(1.000)	49	665540				0.00- 30.00	148.24

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1820841	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	299569				0.00- 46.55	16.45

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.470	(1.000)	117	1669520	10.0000			80.00- 120.00	100.00
21.470	21.470	(1.000)	82	902074				0.00- 30.00	54.03

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.084	16.085	(1.053)	65	643020	9.67646	9.676		80.00- 120.00	100.00
16.112	16.085	(1.055)	67	376476				0.00- 30.00	58.55

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1630666	10.0472	10.047		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	197127				0.00- 42.23	12.09

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1069840			35.44-	95.44	65.61

\$ 66 Bromofluorobenzene									
									CAS #: 460-00-4
22.922	22.922	(1.068)	174	881974	10.4815	10.482	80.00-	120.00	100.00
22.922	22.922	(1.068)	95	1177150			104.84-	164.84	133.47
22.922	22.922	(1.068)	176	855380			67.30-	127.30	96.98

1 Dichlorodifluoromethane/Fr12									
									CAS #: 75-71-8
5.265	5.290	(0.345)	85	1875713	10.0673	10.067	80.00-	120.00	100.00
5.265	5.290	(0.345)	87	606828			0.00-	30.00	32.35

3 Freon 114									
									CAS #: 76-14-2
6.712	6.736	(0.440)	135	1219878	10.2591	10.259	80.00-	120.00	100.00
6.736	6.736	(0.441)	137	389659			0.00-	30.00	31.94

4 Chloromethane									
									CAS #: 74-87-3
7.025	7.025	(0.460)	50	552741	9.57756	9.578	80.00-	120.00	100.00
7.025	7.025	(0.460)	52	177356			0.00-	30.00	32.09

5 Vinyl Chloride									
									CAS #: 75-01-4
7.897	7.897	(0.517)	62	678704	9.77795	9.778	80.00-	120.00	100.00
7.897	7.897	(0.517)	64	216607			1.90-	61.90	31.91

9 Chloroethane									
									CAS #: 75-00-3
9.991	10.012	(0.654)	64	322523	11.3466	11.347	80.00-	120.00	100.00
10.012	10.012	(0.656)	66	105672			0.00-	30.00	32.76

12 1,1-Dichloroethene									
									CAS #: 75-35-4
12.044	12.044	(0.789)	98	386570	9.03816	9.038	80.00-	120.00	100.00
12.023	12.044	(0.787)	61	937724			0.00-	30.00	242.58
12.044	12.044	(0.789)	96	603053			0.00-	30.00	156.00

22 trans-1,2-Dichloroethene									
									CAS #: 156-60-5
13.435	13.435	(0.880)	98	476686	10.1903	10.190	80.00-	120.00	100.00
13.435	13.435	(0.880)	61	1007359			0.00-	30.00	211.33
13.435	13.435	(0.880)	96	746466			0.00-	30.00	156.59

21 MTBE									
									CAS #: 1634-04-4
13.380	13.380	(0.876)	73	1881134	10.2883	10.288	80.00-	120.00	100.00
13.380	13.380	(0.876)	57	393207			0.00-	30.00	20.90
13.380	13.380	(0.876)	41	403966			0.00-	30.00	21.47

25 1,1-Dichloroethane									
									CAS #: 75-34-3
14.122	14.122	(0.925)	63	1226782	9.57954	9.580	80.00-	120.00	100.00
14.122	14.122	(0.925)	65	394513			2.01-	62.01	32.16

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	470281	10.0190	10.019	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	912120			0.00- 30.00	193.95	
14.928	14.928	(0.978)	96	733826			0.00- 30.00	156.04	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1439354	9.37986	9.380	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	937643			34.91- 94.91	65.14	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	1514033	10.1186	10.119	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	976665			34.38- 94.38	64.51	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	1460195	10.4615	10.462	80.00- 120.00	100.00	
15.793	15.793	(1.034)	117	1501834			72.86- 132.86	102.85	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	2230075	9.59773	9.598	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	522463			0.00- 30.00	23.43	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	945780	9.93736	9.937	80.00- 120.00	100.00	
16.222	16.194	(0.974)	64	303906			0.00- 30.00	32.13	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	1001923	9.54862	9.549	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	985626			68.89- 128.89	98.37	
17.073	17.073	(1.025)	97	636813			33.94- 93.94	63.56	

48 Toluene CAS #: 108-88-3									
19.360	19.360	(1.162)	91	2385693	9.37853	9.378	80.00- 120.00	100.00	
19.360	19.360	(1.162)	92	1420146			29.27- 89.27	59.53	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	935576	9.77674	9.777	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	589802			32.82- 92.82	63.04	
20.050	20.050	(0.934)	83	799736			56.06- 116.06	85.48	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	1282856	9.37955	9.380	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	925742			42.14- 102.14	72.16	
20.212	20.212	(0.941)	131	896148			39.68- 99.68	69.86	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	1490022	10.8146	10.814	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	1403425			64.37- 124.37	94.19	

58 Ethyl Benzene					CAS #: 100-41-4				
21.590	21.566	(1.006)	106	934447	10.4785	10.478	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	3049303			0.00- 30.00	326.32	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	995553	10.5199	10.520	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	2050774			0.00- 30.00	205.99	

61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	941363	10.7389	10.739	80.00- 120.00	100.00	
22.265	22.265	(1.037)	91	2053807			189.42- 249.42	218.17	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.076	23.077	(1.075)	83	1998268	10.0041	10.004	80.00- 120.00	100.00	
23.076	23.077	(1.075)	85	1286927			34.42- 94.42	64.40	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i Calibration Date: 15-SEP-2010
Lab File ID: a091519sim.d Calibration Time: 16:48
Lab Smp Id: LCS Client Smp ID: LCS
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: AIR
Operator: db
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m
Misc Info: 10ppbv (50ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	448958	3.37
40 1,4-Difluorobenze	1769518	1061711	2477325	1820841	2.90
56 Chlorobenzene-d5	1620049	972029	2268069	1669520	3.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 15Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS Client Smp ID: LCS
 Level: LOW Operator: db
 Data Type: MS DATA SampleType: LCS
 SpikeList File: HILO.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	10.067	100.67	70-130
3 Freon 114	10.000	10.259	102.59	70-130
4 Chloromethane	10.000	9.578	95.78	70-130
5 Vinyl Chloride	10.000	9.778	97.78	70-130
9 Chloroethane	10.000	11.347	113.47	70-130
12 1,1-Dichloroethene	10.000	9.038	90.38	70-130
21 MTBE	10.000	10.288	102.88	70-130
22 trans-1,2-Dichloro	10.000	10.190	101.90	70-130
25 1,1-Dichloroethane	10.000	9.580	95.80	70-130
29 cis-1,2-Dichloroet	10.000	10.019	100.19	70-130
32 Chloroform	10.000	9.380	93.80	70-130
34 1,1,1-Trichloroeth	10.000	10.119	101.19	70-130
35 Carbon Tetrachlori	10.000	10.462	104.62	70-130
36 Benzene	10.000	9.598	95.98	70-130
38 1,2-Dichloroethane	10.000	9.937	99.37	70-130
41 Trichloroethene	10.000	9.549	95.49	70-130
48 Toluene	10.000	9.378	93.79	70-130
50 1,1,2-Trichloroeth	10.000	9.777	97.77	70-130
51 Tetrachloroethene	10.000	9.380	93.80	70-130
55 1,2-Dibromoethane	10.000	10.814	108.15	70-130
58 Ethyl Benzene	10.000	10.478	104.78	70-130
59 m,p-Xylene	10.000	10.520	105.20	70-130
61 o-Xylene	10.000	10.739	107.39	70-130
67 1,1,2,2-Tetrachlor	10.000	10.004	100.04	70-130

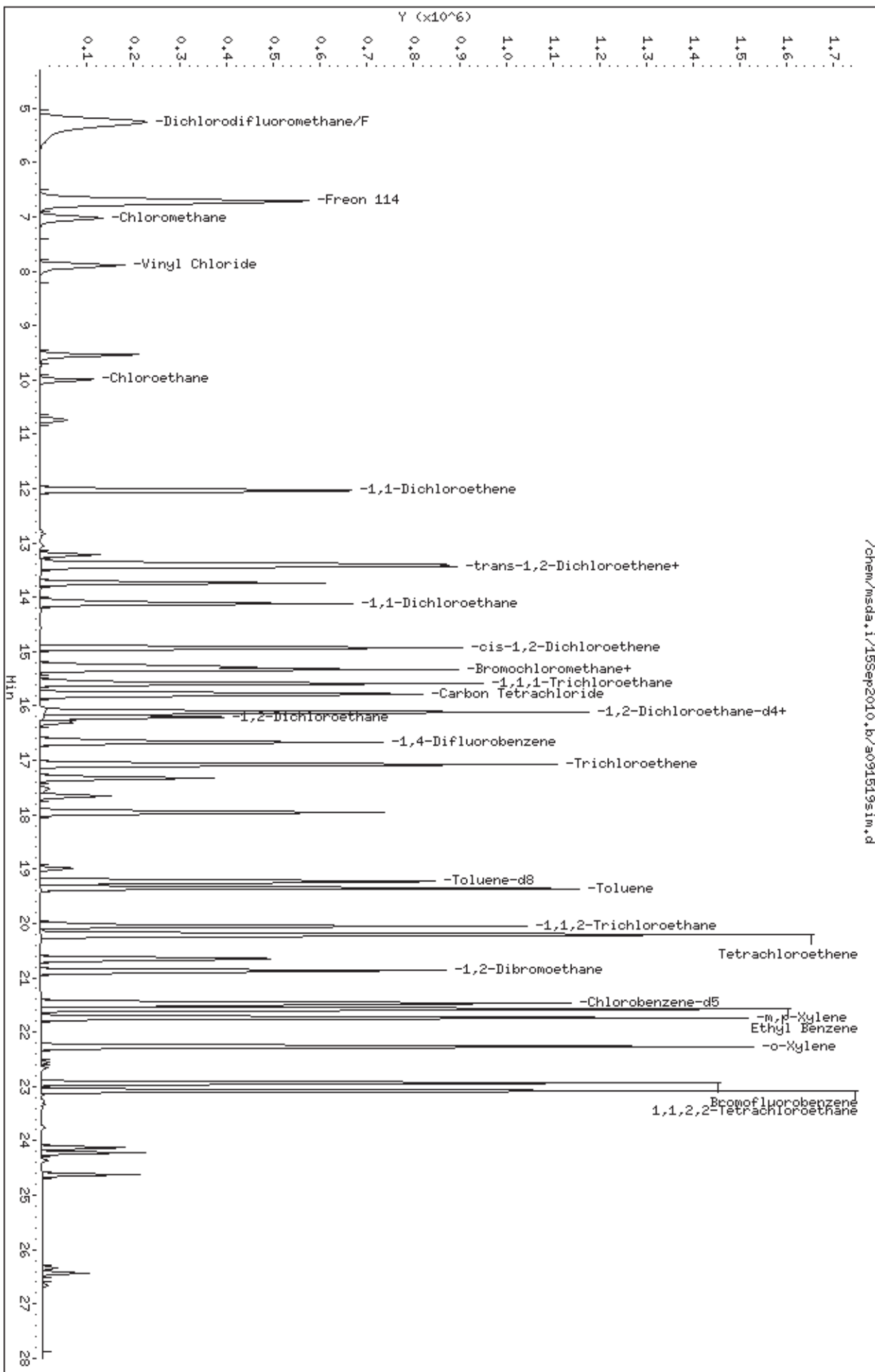
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	9.676	96.76	70-130
\$ 47 Toluene-d8	10.000	10.047	100.47	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 66 Bromofluorobenzene	10.000	10.482	104.82	70-130

Data File: /chem/msda.i/15Sep2010.b/a091519s.im.d
Date: 16-SEP-2010 08:21
Client ID: LCS
Sample Info: 50ml #1968-237

Column phase: RTX-624

Instrument: msda.i
Operator: db
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091506sim.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 15-SEP-2010 10:13
Operator : db Inst ID: msda.i
Smp Info : 15ml #1936-334
Misc Info : 0.003ppbv (0.05ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 08:37 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 10:13 Cal File: a091506sim.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3tcepc.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	456821	10.0000			70.00- 130.00	100.00
15.269	15.269	(1.000)	128	353086				0.00- 30.00	77.29
15.269	15.269	(1.000)	49	599606				0.00- 30.00	131.26

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1930077	10.0000			70.00- 130.00	100.00
16.661	16.661	(1.000)	88	325546				0.00- 46.55	16.87

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.469	21.469	(1.000)	117	1696163	10.0000			70.00- 130.00	100.00
21.469	21.469	(1.000)	82	946211				0.00- 30.00	55.79

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.084	16.084	(1.053)	65	709731	10.0000	10.316		70.00- 130.00	100.00
16.084	16.084	(1.053)	67	372037				0.00- 30.00	52.42

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1701828	10.0000	9.866		70.00- 130.00	100.00
19.225	19.225	(1.154)	70	212773				0.00- 42.23	12.50

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1111108			35.44- 95.44	65.29	

\$ 66 Bromofluorobenzene									
					CAS #: 460-00-4				
22.922	22.922	(1.068)	174	834877	10.0000	9.692	70.00- 130.00	100.00	
22.922	22.922	(1.068)	95	1154028			104.84- 164.84	138.23	
22.922	22.922	(1.068)	176	810442			67.30- 127.30	97.07	

41 Trichloroethene					CAS #: 79-01-6				
17.073	17.073	(1.025)	130	458	0.00300	0.003566	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	530			68.89- 128.89	115.72	
17.073	17.073	(1.025)	97	308			33.94- 93.94	67.25	

51 Tetrachloroethene					CAS #: 127-18-4				
20.212	20.212	(0.941)	166	534	0.00300	0.003446	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	407			42.14- 102.14	76.22	
20.212	20.212	(0.941)	131	770			39.68- 99.68	144.19	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091506sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 1
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 0.003ppbv (0.05ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	456821	5.18
40 1,4-Difluorobenze	1769518	1061711	2477325	1930077	9.07
56 Chlorobenzene-d5	1620049	972029	2268069	1696163	4.70

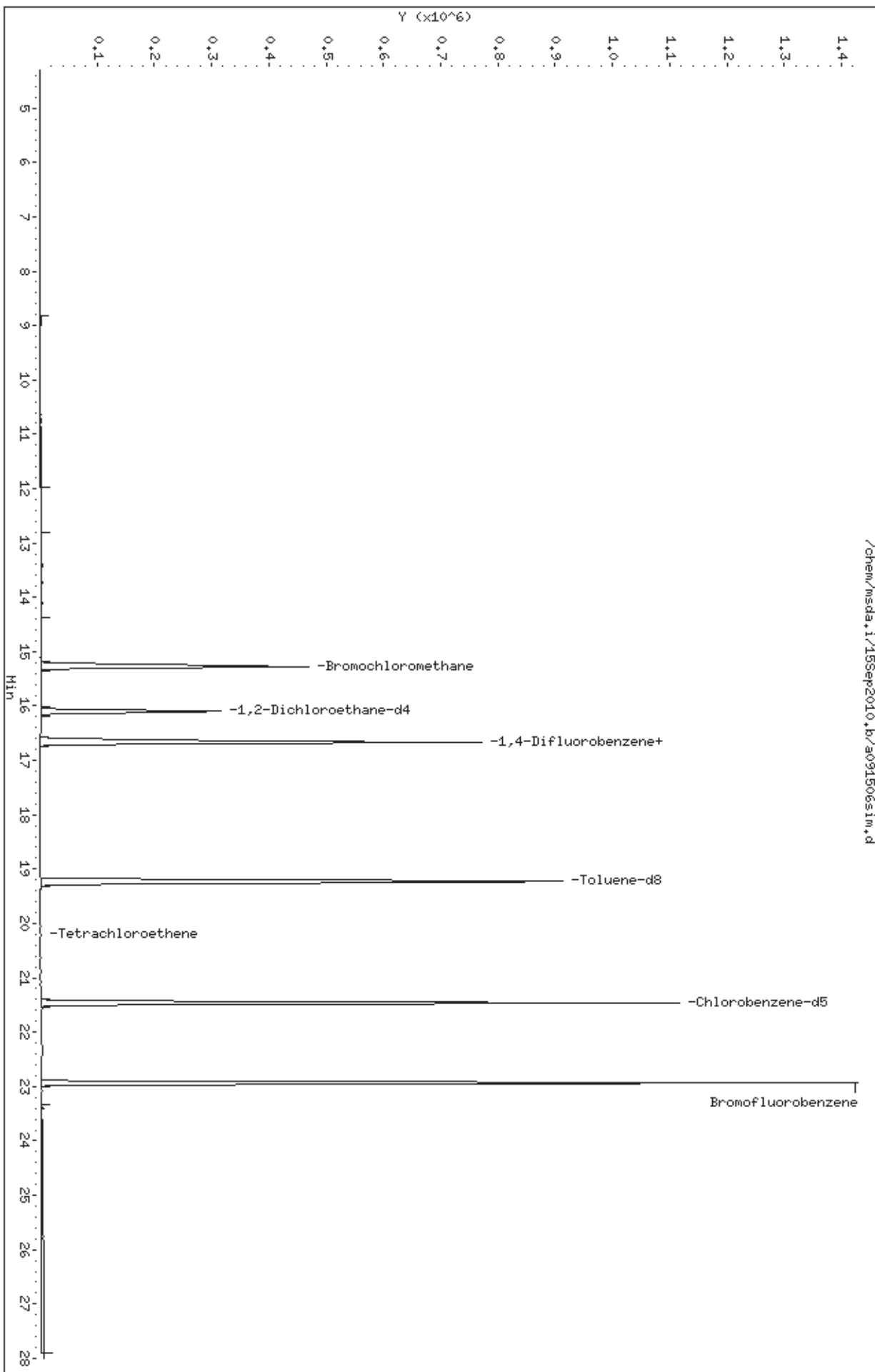
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091506sim.d
Date: 15-SEP-2010 10:13
Client ID: Level 1
Sample Info: 15ml #1936-334

Column phase: RTX-624

Instrument: msda.i
Operator: dbj
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091507sim.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 15-SEP-2010 10:53
Operator : db Inst ID: msda.i
Smp Info : 50ml #1936-334
Misc Info : 0.01ppbv (0.05ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 08:37 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 10:53 Cal File: a091507sim.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane					CAS #: 74-97-5			
15.269	15.269	(1.000)	130	446450	10.0000		70.00-	130.00	100.00
15.269	15.269	(1.000)	128	346690			0.00-	30.00	77.65
15.269	15.269	(1.000)	49	586196			0.00-	30.00	131.30

* 40	1,4-Difluorobenzene					CAS #: 540-36-3			
16.661	16.661	(1.000)	114	1892226	10.0000		70.00-	130.00	100.00
16.661	16.661	(1.000)	88	318687			0.00-	46.55	16.84

* 56	Chlorobenzene-d5					CAS #: 3114-55-4			
21.469	21.469	(1.000)	117	1652799	10.0000		70.00-	130.00	100.00
21.469	21.469	(1.000)	82	923164			0.00-	30.00	55.85

\$ 37	1,2-Dichloroethane-d4					CAS #: 17060-07-0			
16.084	16.084	(1.053)	65	687491	10.0000	10.149	70.00-	130.00	100.00
16.084	16.084	(1.053)	67	360544			0.00-	30.00	52.44

\$ 47	Toluene-d8					CAS #: 2037-26-5			
19.225	19.225	(1.154)	98	1656657	10.0000	9.863	70.00-	130.00	100.00
19.225	19.225	(1.154)	70	207414			0.00-	42.23	12.52

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1080952			35.44-	95.44	65.25

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	802709	10.0000	9.704	70.00-	130.00	100.00
22.922	22.922	(1.068)	95	1106482			104.84-	164.84	137.84
22.922	22.922	(1.068)	176	778051			67.30-	127.30	96.93

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	831	0.01000	0.01108	70.00-	130.00	100.00
7.445	7.445	(0.488)	64	743			1.90-	61.90	89.49

12 1,1-Dichloroethene CAS #: 75-35-4									
12.043	12.043	(0.789)	98	504	0.01000	0.01090	70.00-	130.00	100.00
12.023	12.023	(0.787)	61	1255			0.00-	30.00	248.54
12.023	12.023	(0.787)	96	880			0.00-	30.00	174.38

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1989	0.01000	0.01158	70.00-	130.00	100.00(aM)
15.331	15.331	(1.004)	85	1629			34.91-	94.91	81.89

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	948	0.01000	0.009640	70.00-	130.00	100.00(a)
16.112	16.112	(0.967)	64	6825			0.00-	30.00	719.52

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	1177	0.01000	0.009555	70.00-	130.00	100.00(a)
17.073	17.073	(1.025)	95	1174			68.89-	128.89	99.72
17.073	17.073	(1.025)	97	759			33.94-	93.94	64.48

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	1497	0.01000	0.009942	70.00-	130.00	100.00(aM)
20.212	20.212	(0.941)	129	1269			42.14-	102.14	84.76
20.212	20.212	(0.941)	131	1271			39.68-	99.68	84.90

67 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.076	23.076	(1.075)	83	2314	0.01000	0.01084	70.00-	130.00	100.00
23.076	23.076	(1.075)	85	1663			34.42-	94.42	71.86

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	1084	0.01000	0.01084	70.00-	130.00	100.00(M)
20.050	20.050	(0.934)	99	866			32.82-	92.82	79.84
20.050	20.050	(0.934)	83	1316			56.06-	116.06	121.33

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	1494	0.01000	0.01024	70.00-	130.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
35 Carbon Tetrachloride (continued)									
15.762	15.762	(1.032)	117	2348			72.86- 132.86	157.18	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091507sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 2
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 0.01ppbv (0.05ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	446450	2.80
40 1,4-Difluorobenze	1769518	1061711	2477325	1892226	6.93
56 Chlorobenzene-d5	1620049	972029	2268069	1652799	2.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091507sim.d

Date: 15-SEP-2010 10:53

Client ID: Level 2

Sample Info: 50ml #1936-334

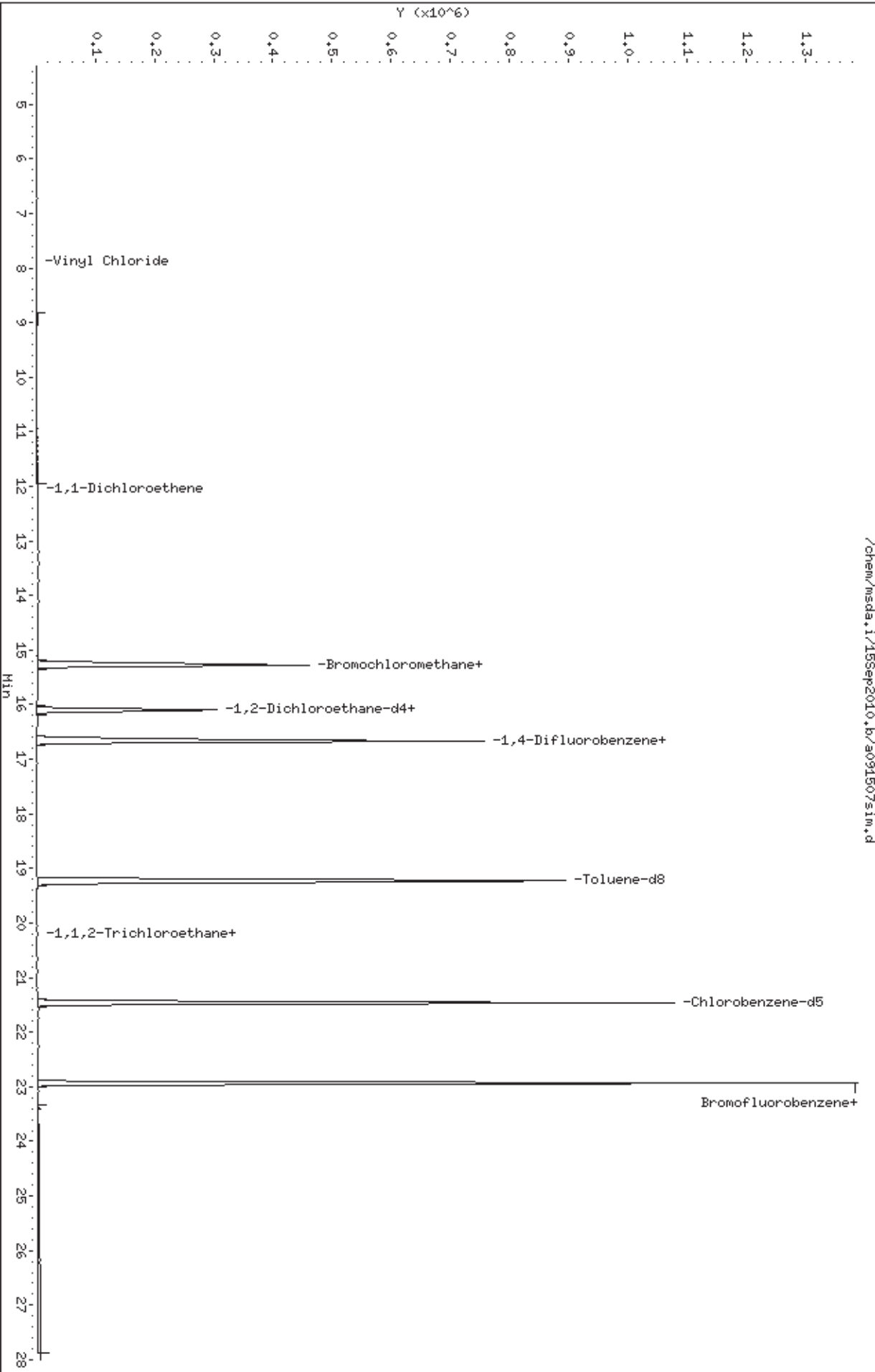
Column phase: RTX-624

Instrument: msda.i

Operator: dbj

Column diameter: 0.53

/chem/msda.i/15Sep2010.b/a091507sim.d



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091508sim.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 15-SEP-2010 12:05
Operator : db Inst ID: msda.i
Smp Info : 100ml #1936-334
Misc Info : 0.02ppbv (0.05ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 08:39 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 12:05 Cal File: a091508sim.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 20.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane					CAS #:	74-97-5		
15.269	15.269	(1.000)	130	445022	10.0000		70.00- 130.00	100.00	
15.269	15.269	(1.000)	128	344129			0.00- 30.00	77.33	
15.269	15.269	(1.000)	49	581967			0.00- 30.00	130.77	

* 40	1,4-Difluorobenzene					CAS #:	540-36-3		
16.661	16.661	(1.000)	114	1795254	10.0000		70.00- 130.00	100.00	
16.661	16.661	(1.000)	88	302143			0.00- 46.55	16.83	

* 56	Chlorobenzene-d5					CAS #:	3114-55-4		
21.470	21.470	(1.000)	117	1610475	10.0000		70.00- 130.00	100.00	
21.470	21.470	(1.000)	82	897599			0.00- 30.00	55.74	

\$ 37	1,2-Dichloroethane-d4					CAS #:	17060-07-0		
16.084	16.084	(1.053)	65	640310	10.0000	9.607	70.00- 130.00	100.00	
16.112	16.112	(1.055)	67	334396			0.00- 30.00	52.22	

\$ 47	Toluene-d8					CAS #:	2037-26-5		
19.225	19.225	(1.154)	98	1596648	10.0000	10.015	70.00- 130.00	100.00	
19.225	19.225	(1.154)	70	200017			0.00- 42.23	12.53	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.247	19.247	(1.155)	100	1043087			35.44- 95.44	65.33	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	794371	10.0000	9.891	70.00- 130.00	100.00	
22.922	22.922	(1.068)	95	1087463			104.84- 164.84	136.90	
22.922	22.922	(1.068)	176	769594			67.30- 127.30	96.88	

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.289	5.289	(0.346)	85	3878	0.02000	0.02041	70.00- 130.00	100.00	
5.289	5.289	(0.346)	87	1263			0.00- 30.00	32.59	

3 Freon 114 CAS #: 76-14-2									
6.736	6.736	(0.441)	135	2455	0.02000	0.02031	70.00- 130.00	100.00	
6.736	6.736	(0.441)	137	778			0.00- 30.00	31.68	

4 Chloromethane CAS #: 74-87-3									
7.025	7.025	(0.460)	50	1320	0.02000	0.02374	70.00- 130.00	100.00(a)	
7.025	7.025	(0.460)	52	472			0.00- 30.00	35.81	

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	1456	0.02000	0.01965	70.00- 130.00	100.00	
7.914	7.914	(0.518)	64	438			1.90- 61.90	30.09	

12 1,1-Dichloroethene CAS #: 75-35-4									
12.043	12.043	(0.789)	98	833	0.02000	0.01868	70.00- 130.00	100.00	
12.023	12.023	(0.787)	61	2233			0.00- 30.00	268.07	
12.043	12.043	(0.789)	96	1452			0.00- 30.00	174.34	

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	943	0.02000	0.02014	70.00- 130.00	100.00(a)	
13.435	13.435	(0.880)	61	2101			0.00- 30.00	222.67	
13.435	13.435	(0.880)	96	2801			0.00- 30.00	296.85	

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	3550	0.02000	0.01963	70.00- 130.00	100.00(a)	
13.380	13.380	(0.876)	57	393			0.00- 30.00	11.09	
13.380	13.380	(0.876)	41	543			0.00- 30.00	15.31	

25 1,1-Dichloroethane CAS #: 75-34-3									
14.121	14.121	(0.925)	63	2622	0.02000	0.02036	70.00- 130.00	100.00	
14.121	14.121	(0.925)	65	2636			2.01- 62.01	100.54	

29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	968	0.02000	0.02040	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	1909			0.00- 30.00	197.05	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene (continued)									
14.928	14.928	(0.978)	96	3706			0.00- 30.00	382.53	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	3036	0.02000	0.01843	70.00- 130.00	100.00(a)	
15.331	15.331	(1.004)	85	2570			34.91- 94.91	84.65	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	3001	0.02000	0.02006	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	1890			34.38- 94.38	62.97	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	2702	0.02000	0.01903	70.00- 130.00	100.00	
15.793	15.793	(1.034)	117	2744			72.86- 132.86	101.54	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	7376	0.02000	0.03349	70.00- 130.00	100.00(a)	
16.112	16.112	(0.967)	77	2572			0.00- 30.00	34.88	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	1712	0.02000	0.01887	70.00- 130.00	100.00(a)	
16.112	16.112	(0.967)	64	6093			0.00- 30.00	355.93	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	2085	0.02000	0.01834	70.00- 130.00	100.00(a)	
17.073	17.073	(1.025)	95	2047			68.89- 128.89	98.18	
17.073	17.073	(1.025)	97	1336			33.94- 93.94	64.06	

48 Toluene CAS #: 108-88-3									
19.359	19.359	(1.162)	91	5936	0.02000	0.02181	70.00- 130.00	100.00	
19.359	19.359	(1.162)	92	3379			29.27- 89.27	56.93	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	1841	0.02000	0.01924	70.00- 130.00	100.00(aM)	
20.050	20.050	(0.934)	99	1377			32.82- 92.82	74.77	
20.050	20.050	(0.934)	83	1931			56.06- 116.06	104.86	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	2621	0.02000	0.01835	70.00- 130.00	100.00(a)	
20.212	20.212	(0.941)	129	2147			42.14- 102.14	81.92	
20.212	20.212	(0.941)	131	2114			39.68- 99.68	80.65	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	2670	0.02000	0.01973	70.00- 130.00	100.00	
20.863	20.863	(0.972)	109	2627			64.37- 124.37	98.39	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
58 Ethyl Benzene					CAS #: 100-41-4				
21.590	21.590	(1.006)	106	1843	0.02000	0.02044	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	7217			0.00- 30.00	391.53	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	2106	0.02000	0.02127	70.00- 130.00	100.00(a)	
21.735	21.735	(1.012)	91	4788			0.00- 30.00	227.32	

61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	1757	0.02000	0.02000	70.00- 130.00	100.00	
22.265	22.265	(1.037)	91	4420			189.42- 249.42	251.48	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.076	23.076	(1.075)	83	4111	0.02000	0.01984	70.00- 130.00	100.00(a)	
23.076	23.076	(1.075)	85	2680			34.42- 94.42	65.19	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091508sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 3
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 0.02ppbv (0.05ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	445022	2.47
40 1,4-Difluorobenze	1769518	1061711	2477325	1795254	1.45
56 Chlorobenzene-d5	1620049	972029	2268069	1610475	-0.59

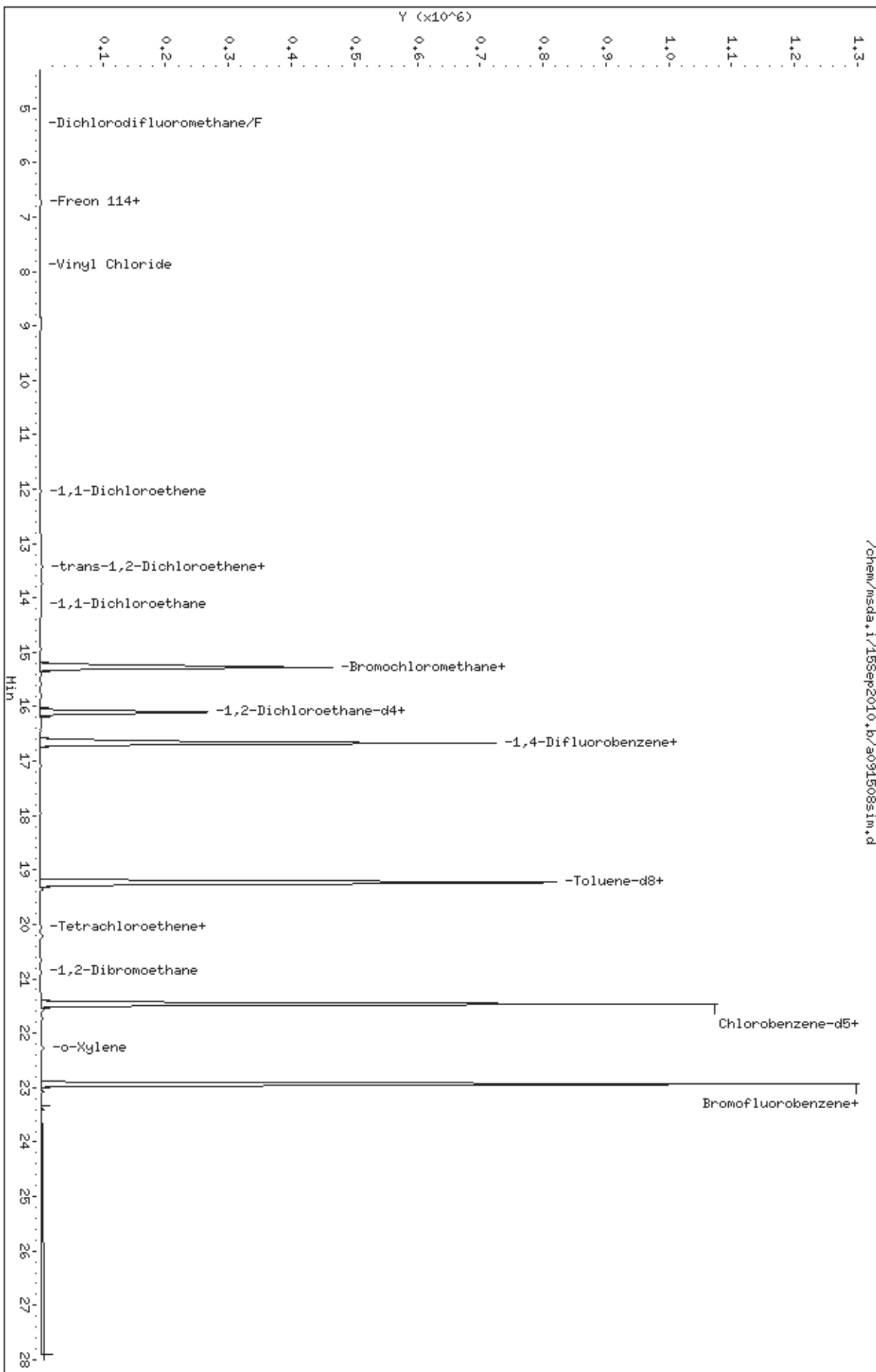
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091508s.im.d
Date: 15-SEP-2010 12:05
Client ID: Level 3
Sample Info: 100ml #1936-334

Column phase: RTX-624

Instrument: msda.i
Operator: dbj
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091509sim.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 15-SEP-2010 12:55
Operator : db Inst ID: msda.i
Smp Info : 250ml #1936-334
Misc Info : 0.05ppbv (0.05ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 08:40 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 12:55 Cal File: a091509sim.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	459355	10.0000			70.00- 130.00	100.00
15.269	15.269	(1.000)	128	355282				0.00- 30.00	77.34
15.269	15.269	(1.000)	49	601158				0.00- 30.00	130.87

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1860067	10.0000			70.00- 130.00	100.00
16.661	16.661	(1.000)	88	310636				0.00- 46.55	16.70

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.470	(1.000)	117	1654358	10.0000			70.00- 130.00	100.00
21.470	21.470	(1.000)	82	919235				0.00- 30.00	55.56

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.084	16.084	(1.053)	65	652808	10.0000	9.587		70.00- 130.00	100.00
16.084	16.084	(1.053)	67	344035				0.00- 30.00	52.70

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1643208	10.0000	9.958		70.00- 130.00	100.00
19.225	19.225	(1.154)	70	204990				0.00- 42.23	12.48

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1073859			35.44- 95.44	65.35	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	820901	10.0000	9.960	70.00- 130.00	100.00	
22.922	22.922	(1.068)	95	1114881			104.84- 164.84	135.81	
22.922	22.922	(1.068)	176	796712			67.30- 127.30	97.05	

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.289	5.289	(0.346)	85	9461	0.05000	0.04882	70.00- 130.00	100.00	
5.265	5.265	(0.345)	87	3117			0.00- 30.00	32.95	

3 Freon 114 CAS #: 76-14-2									
6.736	6.736	(0.441)	135	6200	0.05000	0.04979	70.00- 130.00	100.00	
6.736	6.736	(0.441)	137	1982			0.00- 30.00	31.98	

4 Chloromethane CAS #: 74-87-3									
7.025	7.025	(0.460)	50	3518	0.05000	0.05507	70.00- 130.00	100.00	
7.025	7.025	(0.460)	52	1224			0.00- 30.00	34.81	

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	3430	0.05000	0.04604	70.00- 130.00	100.00	
7.897	7.897	(0.517)	64	1117			1.90- 61.90	32.57	

9 Chloroethane CAS #: 75-00-3									
10.012	10.012	(0.656)	64	1578	0.05000	0.04969	70.00- 130.00	100.00(a)	
10.012	10.012	(0.656)	66	499			0.00- 30.00	31.68	

12 1,1-Dichloroethene CAS #: 75-35-4									
12.043	12.043	(0.789)	98	2124	0.05000	0.04705	70.00- 130.00	100.00	
12.023	12.023	(0.787)	61	5464			0.00- 30.00	257.26	
12.023	12.023	(0.787)	96	3400			0.00- 30.00	160.07	

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	2350	0.05000	0.04907	70.00- 130.00	100.00(a)	
13.435	13.435	(0.880)	61	5240			0.00- 30.00	222.92	
13.435	13.435	(0.880)	96	5167			0.00- 30.00	219.82	

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	9256	0.05000	0.04972	70.00- 130.00	100.00(a)	
13.380	13.380	(0.876)	57	2227			0.00- 30.00	24.06	
13.380	13.380	(0.876)	41	1662			0.00- 30.00	17.96	

25 1,1-Dichloroethane CAS #: 75-34-3									
14.122	14.122	(0.925)	63	6548	0.05000	0.04951	70.00- 130.00	100.00	
14.122	14.122	(0.925)	65	3265			2.01- 62.01	49.87	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	2363	0.05000	0.04881	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	4724			0.00- 30.00	199.95	
14.928	14.928	(0.978)	96	8857			0.00- 30.00	374.85	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	7499	0.05000	0.04544	70.00- 130.00	100.00	
15.331	15.331	(1.004)	85	5187			34.91- 94.91	69.17	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	7575	0.05000	0.04936	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	4836			34.38- 94.38	63.84	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	6795	0.05000	0.04722	70.00- 130.00	100.00	
15.793	15.793	(1.034)	117	7033			72.86- 132.86	103.51	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	13818	0.05000	0.05478	70.00- 130.00	100.00	
16.112	16.112	(0.967)	77	3183			0.00- 30.00	23.04	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	4827	0.05000	0.05100	70.00- 130.00	100.00	
16.112	16.112	(0.967)	64	6009			0.00- 30.00	124.48	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	5125	0.05000	0.04466	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	5146			68.89- 128.89	100.42	
17.073	17.073	(1.025)	97	3298			33.94- 93.94	64.35	

48 Toluene CAS #: 108-88-3									
19.359	19.359	(1.162)	91	13510	0.05000	0.04859	70.00- 130.00	100.00	
19.359	19.359	(1.162)	92	7929			29.27- 89.27	58.69	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	5225	0.05000	0.05233	70.00- 130.00	100.00	
20.050	20.050	(0.934)	99	3194			32.82- 92.82	61.12	
20.050	20.050	(0.934)	83	4438			56.06- 116.06	84.93	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	6810	0.05000	0.04710	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	5009			42.14- 102.14	73.56	
20.212	20.212	(0.941)	131	4709			39.68- 99.68	69.14	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	6913	0.05000	0.04982	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	6574			64.37- 124.37	95.09	

58 Ethyl Benzene CAS #: 100-41-4									
21.566	21.566	(1.004)	106	4526	0.05000	0.04924	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	16229			0.00- 30.00	358.58	

59 m,p-Xylene CAS #: 108-38-3									
21.735	21.735	(1.012)	106	4790	0.05000	0.04803	70.00- 130.00	100.00	
21.735	21.735	(1.012)	91	16115			0.00- 30.00	336.41	

61 o-Xylene CAS #: 95-47-6									
22.265	22.265	(1.037)	106	4439	0.05000	0.04947	70.00- 130.00	100.00(M)	
22.265	22.265	(1.037)	91	9848			189.42- 249.42	221.81	

67 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.076	23.076	(1.075)	83	10379	0.05000	0.04907	70.00- 130.00	100.00	
23.076	23.076	(1.075)	85	6639			34.42- 94.42	63.97	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091509sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 4
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 0.05ppbv (0.05ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	459355	5.77
40 1,4-Difluorobenze	1769518	1061711	2477325	1860067	5.12
56 Chlorobenzene-d5	1620049	972029	2268069	1654358	2.12

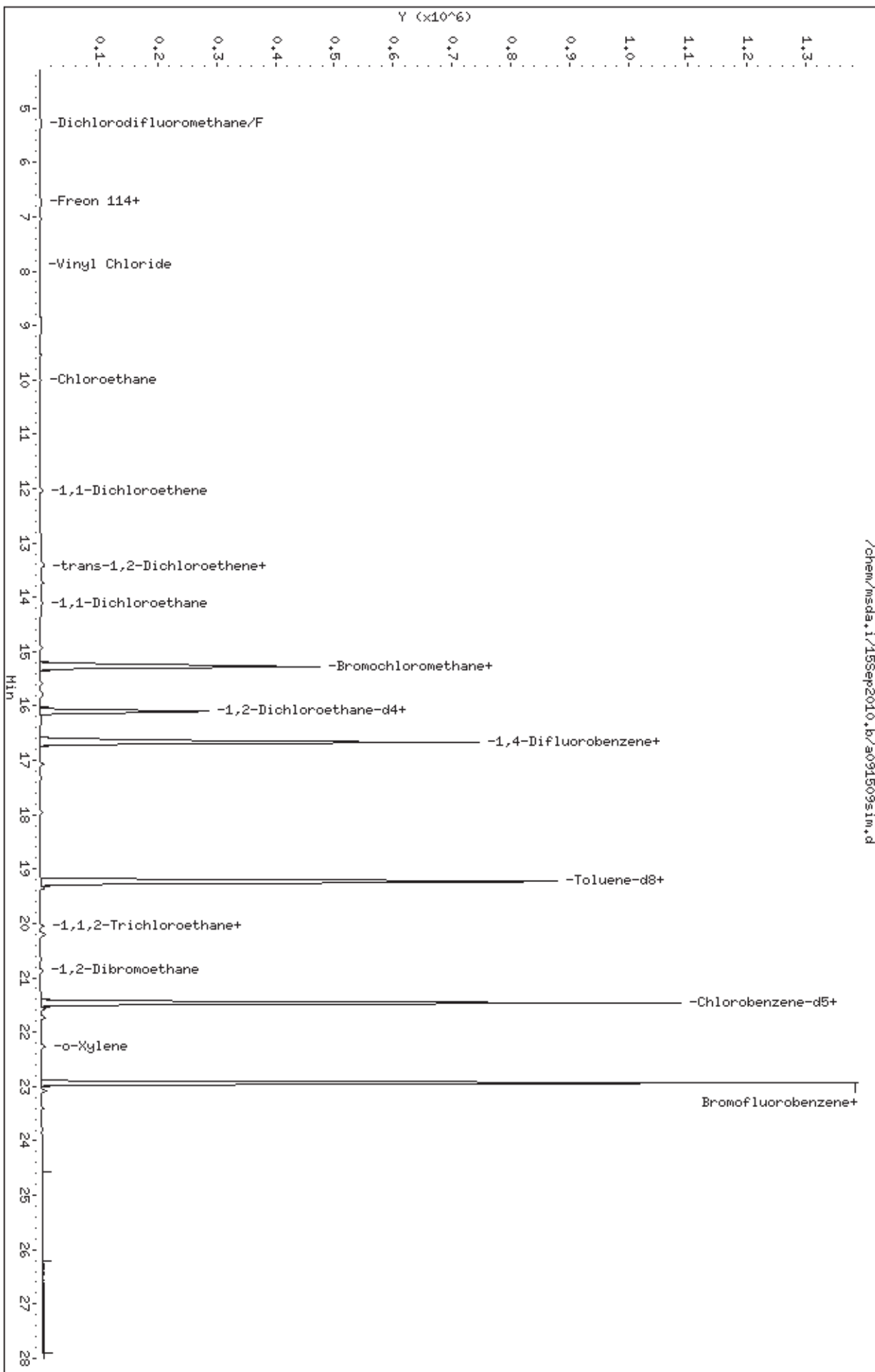
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091509s.im.d
Date: 15-SEP-2010 12:56
Client ID: Level 4
Sample Info: 250ml #1936-334

Column phase: RTX-624

Instrument: msda.i
Operator: dbj
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091510sim.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 15-SEP-2010 13:58
Operator : db Inst ID: msda.i
Smp Info : 12.5ml #1936-333
Misc Info : 0.1ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 09:43 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 13:58 Cal File: a091510sim.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #:	74-97-5	
15.269	15.269	(1.000)	130	451787	10.0000			70.00- 130.00	100.00
15.269	15.269	(1.000)	128	349633				0.00- 30.00	77.39
15.269	15.269	(1.000)	49	584464				0.00- 30.00	129.37

* 40	1,4-Difluorobenzene						CAS #:	540-36-3	
16.661	16.661	(1.000)	114	1872329	10.0000			70.00- 130.00	100.00
16.661	16.661	(1.000)	88	311718				0.00- 46.55	16.65

* 56	Chlorobenzene-d5						CAS #:	3114-55-4	
21.470	21.470	(1.000)	117	1651810	10.0000			70.00- 130.00	100.00
21.470	21.470	(1.000)	82	914265				0.00- 30.00	55.35

\$ 37	1,2-Dichloroethane-d4						CAS #:	17060-07-0	
16.084	16.084	(1.053)	65	686158	10.0000	10.204		70.00- 130.00	100.00
16.084	16.084	(1.053)	67	360180				0.00- 30.00	52.49

\$ 47	Toluene-d8						CAS #:	2037-26-5	
19.225	19.225	(1.154)	98	1643526	10.0000	9.912		70.00- 130.00	100.00
19.225	19.225	(1.154)	70	203182				0.00- 42.23	12.36

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1072912			35.44-	95.44	65.28

\$ 66 Bromofluorobenzene									
						CAS #:	460-00-4		
22.922	22.922	(1.068)	174	811527	10.0000	9.885	70.00-	130.00	100.00
22.922	22.922	(1.068)	95	1104720			104.84-	164.84	136.13
22.922	22.922	(1.068)	176	788526			67.30-	127.30	97.17

1 Dichlorodifluoromethane/Fr12									
						CAS #:	75-71-8		
5.265	5.265	(0.345)	85	22364	0.10000	0.1124	70.00-	130.00	100.00
5.265	5.265	(0.345)	87	7170			0.00-	30.00	32.06

3 Freon 114									
						CAS #:	76-14-2		
6.712	6.712	(0.440)	135	13867	0.10000	0.1096	70.00-	130.00	100.00
6.712	6.712	(0.440)	137	4318			0.00-	30.00	31.14

4 Chloromethane									
						CAS #:	74-87-3		
7.025	7.025	(0.460)	50	7093	0.10000	0.1082	70.00-	130.00	100.00
7.025	7.025	(0.460)	52	2311			0.00-	30.00	32.58

5 Vinyl Chloride									
						CAS #:	75-01-4		
7.897	7.897	(0.517)	62	8152	0.10000	0.1088	70.00-	130.00	100.00
7.897	7.897	(0.517)	64	2516			1.90-	61.90	30.87

9 Chloroethane									
						CAS #:	75-00-3		
9.991	9.991	(0.654)	64	2516	0.10000	0.08614	70.00-	130.00	100.00
9.991	9.991	(0.654)	66	849			0.00-	30.00	33.76

12 1,1-Dichloroethene									
						CAS #:	75-35-4		
12.044	12.044	(0.789)	98	5117	0.10000	0.1118	70.00-	130.00	100.00
12.023	12.023	(0.787)	61	13126			0.00-	30.00	256.48
12.023	12.023	(0.787)	96	7997			0.00-	30.00	156.26

22 trans-1,2-Dichloroethene									
						CAS #:	156-60-5		
13.435	13.435	(0.880)	98	5799	0.10000	0.1164	70.00-	130.00	100.00
13.408	13.408	(0.878)	61	12693			0.00-	30.00	218.86
13.435	13.435	(0.880)	96	9127			0.00-	30.00	157.38

21 MTBE									
						CAS #:	1634-04-4		
13.380	13.380	(0.876)	73	22168	0.10000	0.1150	70.00-	130.00	100.00
13.380	13.380	(0.876)	57	4409			0.00-	30.00	19.89
13.380	13.380	(0.876)	41	4881			0.00-	30.00	22.02

25 1,1-Dichloroethane									
						CAS #:	75-34-3		
14.122	14.122	(0.925)	63	15671	0.10000	0.1146	70.00-	130.00	100.00
14.122	14.122	(0.925)	65	5660			2.01-	62.01	36.12

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	5750	0.10000	0.1148	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	11708			0.00- 30.00	203.60	
14.928	14.928	(0.978)	96	8953			0.00- 30.00	155.69	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	18582	0.10000	0.1113	70.00- 130.00	100.00	
15.331	15.331	(1.004)	85	11954			34.91- 94.91	64.33	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	18276	0.10000	0.1150	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	11670			34.38- 94.38	63.85	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	16476	0.10000	0.1127	70.00- 130.00	100.00	
15.793	15.793	(1.034)	117	17064			72.86- 132.86	103.57	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	29250	0.10000	0.1096	70.00- 130.00	100.00	
16.112	16.112	(0.967)	77	6838			0.00- 30.00	23.38	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	11991	0.10000	0.1197	70.00- 130.00	100.00	
16.194	16.194	(0.972)	64	2960			0.00- 30.00	24.68	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	12049	0.10000	0.1036	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	12105			68.89- 128.89	100.46	
17.073	17.073	(1.025)	97	7761			33.94- 93.94	64.41	

48 Toluene CAS #: 108-88-3									
19.359	19.359	(1.162)	91	29330	0.10000	0.1036	70.00- 130.00	100.00	
19.359	19.359	(1.162)	92	17223			29.27- 89.27	58.72	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	10809	0.10000	0.1066	70.00- 130.00	100.00	
20.050	20.050	(0.934)	99	6798			32.82- 92.82	62.89	
20.050	20.050	(0.934)	83	9757			56.06- 116.06	90.26	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	15068	0.10000	0.1036	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	10969			42.14- 102.14	72.80	
20.212	20.212	(0.941)	131	10698			39.68- 99.68	71.00	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	15733	0.10000	0.1098	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	14652			64.37- 124.37	93.13	

58 Ethyl Benzene CAS #: 100-41-4									
21.590	21.590	(1.006)	106	9952	0.10000	0.1062	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	34048			0.00- 30.00	342.09	

59 m,p-Xylene CAS #: 108-38-3									
21.735	21.735	(1.012)	106	10226	0.10000	0.1020	70.00- 130.00	100.00	
21.735	21.735	(1.012)	91	22558			0.00- 30.00	220.58	

61 o-Xylene CAS #: 95-47-6									
22.265	22.265	(1.037)	106	9538	0.10000	0.1048	70.00- 130.00	100.00	
22.265	22.265	(1.037)	91	20998			189.42- 249.42	220.16	

67 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.076	23.076	(1.075)	83	21195	0.10000	0.1003	70.00- 130.00	100.00	
23.076	23.076	(1.075)	85	13658			34.42- 94.42	64.44	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091510sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 5
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 0.1ppbv (2.0ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	451787	4.03
40 1,4-Difluorobenze	1769518	1061711	2477325	1872329	5.81
56 Chlorobenzene-d5	1620049	972029	2268069	1651810	1.96

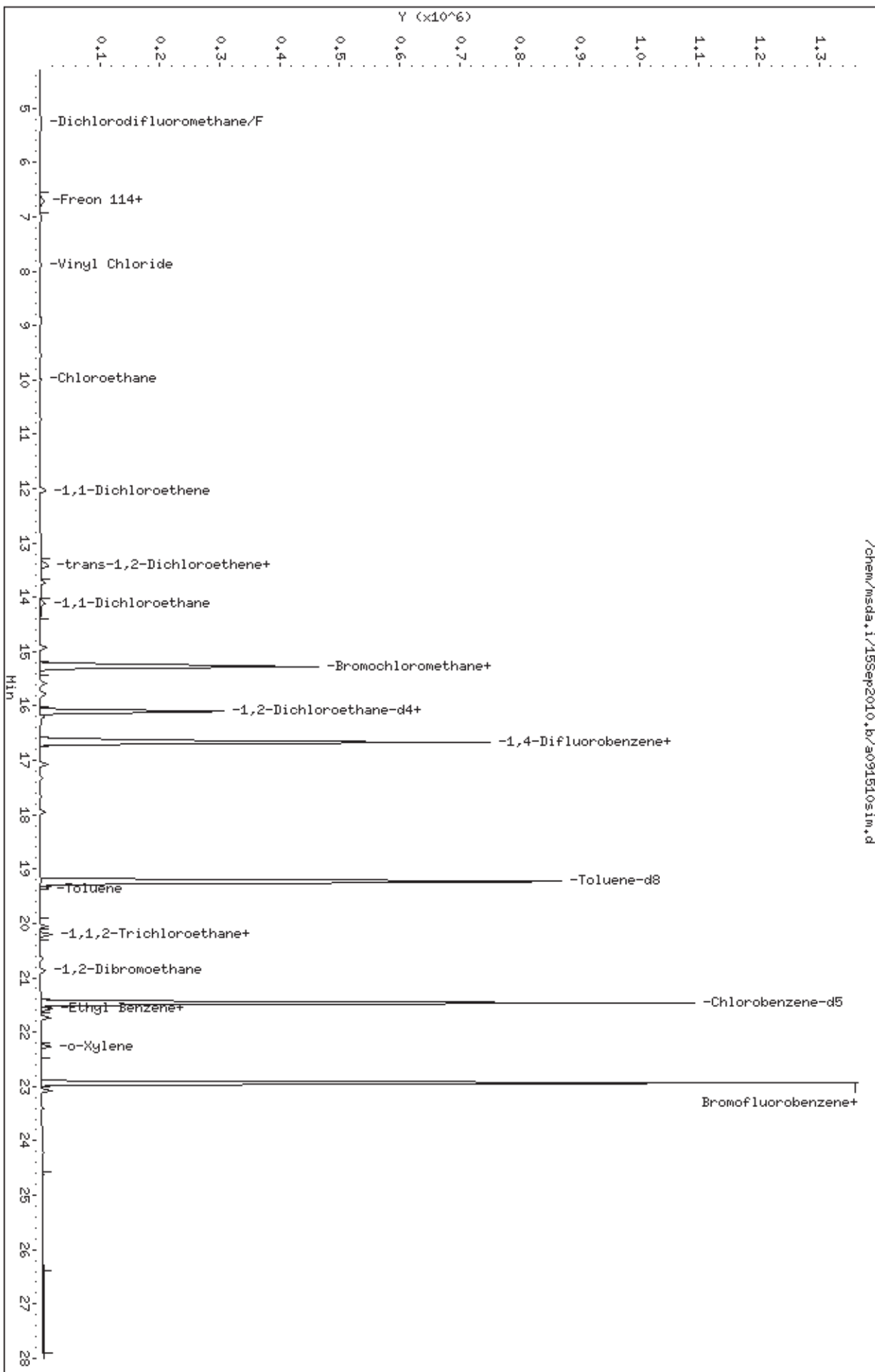
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091510s.im.d
Date: 15-SEP-2010 13:58
Client ID: Level 5
Sample Info: 12.5ml #1936-333

Column phase: RTX-624

Instrument: msda.i
Operator: dbp
Column diameter: 0.53



/chem/msda.i/15Sep2010.b/a091510s.im.d

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091511sim.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 15-SEP-2010 14:42
Operator : db Inst ID: msda.i
Smp Info : 62.5ml #1936-333
Misc Info : 0.5ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 09:44 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 14:42 Cal File: a091511sim.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	438090	10.0000			70.00- 130.00	100.00
15.269	15.269	(1.000)	128	340212				0.00- 30.00	77.66
15.269	15.269	(1.000)	49	570292				0.00- 30.00	130.18

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1785601	10.0000			70.00- 130.00	100.00
16.661	16.661	(1.000)	88	297301				0.00- 46.55	16.65

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.470	(1.000)	117	1613175	10.0000			70.00- 130.00	100.00
21.470	21.470	(1.000)	82	894791				0.00- 30.00	55.47

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.084	16.084	(1.053)	65	628137	10.0000	9.684		70.00- 130.00	100.00
16.084	16.084	(1.053)	67	331500				0.00- 30.00	52.78

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1593727	10.0000	10.067		70.00- 130.00	100.00
19.225	19.225	(1.154)	70	197176				0.00- 42.23	12.37

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1038881			35.44-	95.44	65.19

\$ 66 Bromofluorobenzene									
						CAS #:	460-00-4		
22.922	22.922	(1.068)	174	809752	10.0000	10.085	70.00-	130.00	100.00
22.922	22.922	(1.068)	95	1099043			104.84-	164.84	135.73
22.922	22.922	(1.068)	176	784178			67.30-	127.30	96.84

1 Dichlorodifluoromethane/Fr12									
						CAS #:	75-71-8		
5.289	5.289	(0.346)	85	79570	0.50000	0.4276	70.00-	130.00	100.00
5.289	5.289	(0.346)	87	25744			0.00-	30.00	32.35

3 Freon 114									
						CAS #:	76-14-2		
6.736	6.736	(0.441)	135	50034	0.50000	0.4235	70.00-	130.00	100.00
6.736	6.736	(0.441)	137	15985			0.00-	30.00	31.95

4 Chloromethane									
						CAS #:	74-87-3		
7.025	7.025	(0.460)	50	23859	0.50000	0.4004	70.00-	130.00	100.00
7.025	7.025	(0.460)	52	7703			0.00-	30.00	32.29

5 Vinyl Chloride									
						CAS #:	75-01-4		
7.897	7.897	(0.517)	62	28381	0.50000	0.4054	70.00-	130.00	100.00
7.897	7.897	(0.517)	64	9090			1.90-	61.90	32.03

9 Chloroethane									
						CAS #:	75-00-3		
10.012	10.012	(0.656)	64	10993	0.50000	0.4111	70.00-	130.00	100.00
10.012	10.012	(0.656)	66	3603			0.00-	30.00	32.78

12 1,1-Dichloroethene									
						CAS #:	75-35-4		
12.043	12.043	(0.789)	98	17305	0.50000	0.4049	70.00-	130.00	100.00
12.023	12.023	(0.787)	61	43804			0.00-	30.00	253.12
12.023	12.023	(0.787)	96	27075			0.00-	30.00	156.45

22 trans-1,2-Dichloroethene									
						CAS #:	156-60-5		
13.435	13.435	(0.880)	98	19382	0.50000	0.4177	70.00-	130.00	100.00
13.435	13.435	(0.880)	61	42634			0.00-	30.00	219.96
13.435	13.435	(0.880)	96	31440			0.00-	30.00	162.21

21 MTBE									
						CAS #:	1634-04-4		
13.380	13.380	(0.876)	73	75654	0.50000	0.4208	70.00-	130.00	100.00
13.380	13.380	(0.876)	57	15357			0.00-	30.00	20.30
13.380	13.380	(0.876)	41	17006			0.00-	30.00	22.48

25 1,1-Dichloroethane									
						CAS #:	75-34-3		
14.122	14.122	(0.925)	63	53630	0.50000	0.4205	70.00-	130.00	100.00
14.122	14.122	(0.925)	65	18255			2.01-	62.01	34.04

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	19394	0.50000	0.4161	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	40227			0.00- 30.00	207.42	
14.928	14.928	(0.978)	96	30689			0.00- 30.00	158.24	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	61808	0.50000	0.3973	70.00- 130.00	100.00	
15.331	15.331	(1.004)	85	39851			34.91- 94.91	64.48	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	61874	0.50000	0.4181	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	39793			34.38- 94.38	64.31	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	56702	0.50000	0.4138	70.00- 130.00	100.00	
15.793	15.793	(1.034)	117	58520			72.86- 132.86	103.21	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	97563	0.50000	0.4072	70.00- 130.00	100.00	
16.112	16.112	(0.967)	77	22899			0.00- 30.00	23.47	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	41308	0.50000	0.4423	70.00- 130.00	100.00	
16.222	16.222	(0.974)	64	11338			0.00- 30.00	27.45	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	41360	0.50000	0.3868	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	41161			68.89- 128.89	99.52	
17.073	17.073	(1.025)	97	26658			33.94- 93.94	64.45	

48 Toluene CAS #: 108-88-3									
19.359	19.359	(1.162)	91	104233	0.50000	0.4043	70.00- 130.00	100.00	
19.359	19.359	(1.162)	92	61085			29.27- 89.27	58.60	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	38644	0.50000	0.4052	70.00- 130.00	100.00	
20.050	20.050	(0.934)	99	23829			32.82- 92.82	61.66	
20.050	20.050	(0.934)	83	33206			56.06- 116.06	85.93	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	53733	0.50000	0.3920	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	38836			42.14- 102.14	72.28	
20.212	20.212	(0.941)	131	37562			39.68- 99.68	69.91	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	55582	0.50000	0.4143	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	=====
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	52158			64.37- 124.37	93.84	

58 Ethyl Benzene CAS #: 100-41-4									
21.590	21.590	(1.006)	106	35735	0.50000	0.4083	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	120376			0.00- 30.00	336.86	

59 m,p-Xylene CAS #: 108-38-3									
21.735	21.735	(1.012)	106	37022	0.50000	0.3975	70.00- 130.00	100.00	
21.735	21.735	(1.012)	91	78967			0.00- 30.00	213.30	

61 o-Xylene CAS #: 95-47-6									
22.265	22.265	(1.037)	106	34744	0.50000	0.4086	70.00- 130.00	100.00	
22.265	22.265	(1.037)	91	86897			189.42- 249.42	250.10	

67 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.076	23.076	(1.075)	83	77070	0.50000	0.3899	70.00- 130.00	100.00	
23.076	23.076	(1.075)	85	49315			34.42- 94.42	63.99	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091511sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 6
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 0.5ppbv (2.0ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	438090	0.87
40 1,4-Difluorobenze	1769518	1061711	2477325	1785601	0.91
56 Chlorobenzene-d5	1620049	972029	2268069	1613175	-0.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091511sim.d

Date: 15-SEP-2010 14:42

Client ID: Level 6

Sample Info: 62.5ml #1936-333

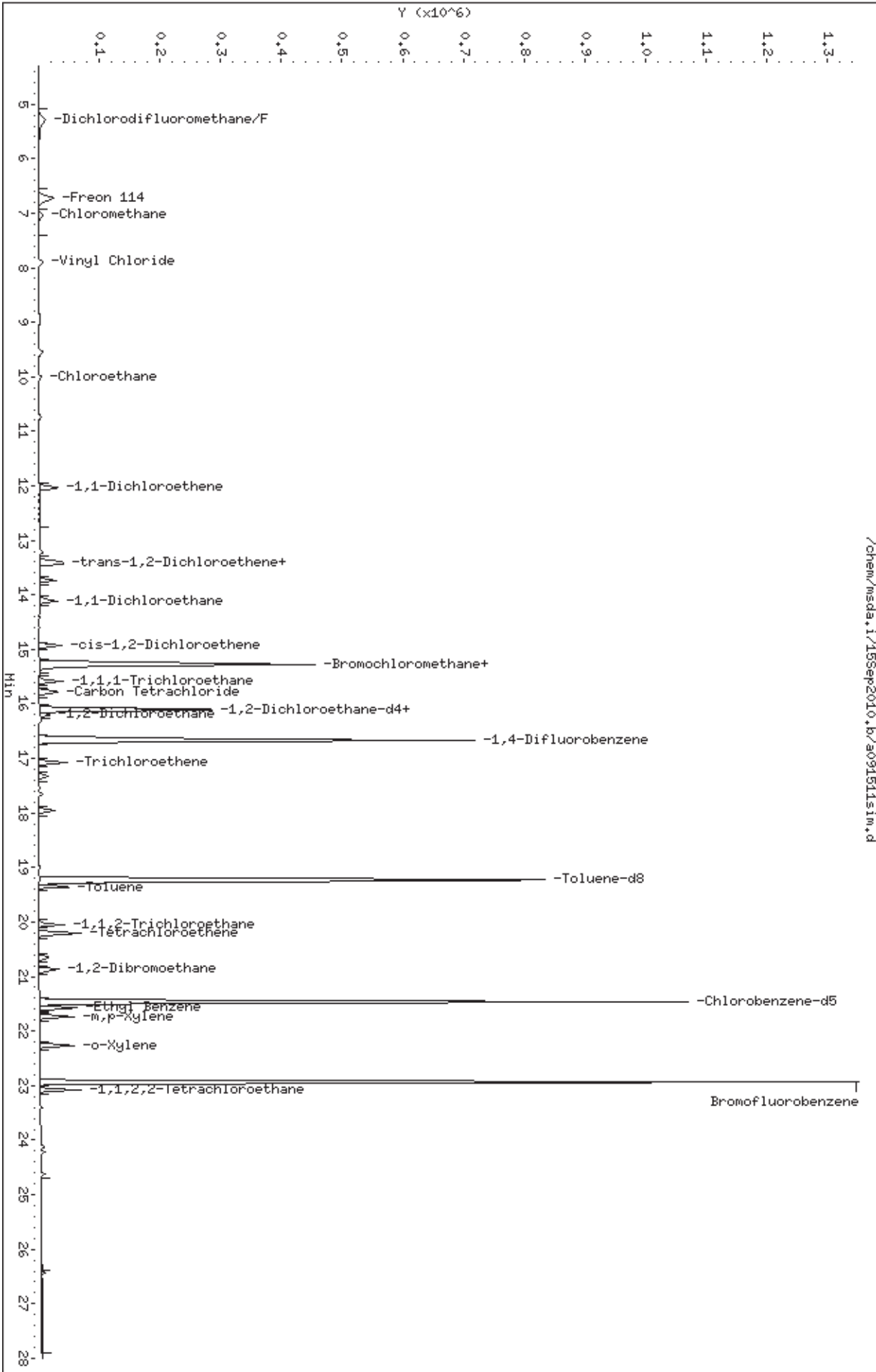
Column phase: RTX-624

Instrument: msda.i

Operator: db

Column diameter: 0.53

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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091512sim.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 15-SEP-2010 15:30
Operator : db Inst ID: msda.i
Smp Info : 250ml #1936-333
Misc Info : 2.0ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 09:45 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 15:30 Cal File: a091512sim.d
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	447312	10.0000			70.00- 130.00	100.00
15.269	15.269	(1.000)	128	345950				0.00- 30.00	77.34
15.269	15.269	(1.000)	49	595482				0.00- 30.00	133.12

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1765831	10.0000			70.00- 130.00	100.00
16.661	16.661	(1.000)	88	293584				0.00- 46.55	16.63

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.470	(1.000)	117	1607552	10.0000			70.00- 130.00	100.00
21.470	21.470	(1.000)	82	887572				0.00- 30.00	55.21

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.084	16.084	(1.053)	65	624373	10.0000	9.495		70.00- 130.00	100.00
16.112	16.112	(1.055)	67	335129				0.00- 30.00	53.67

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1585284	10.0000	10.110		70.00- 130.00	100.00
19.225	19.225	(1.154)	70	195513				0.00- 42.23	12.33

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.247	19.247	(1.155)	100	1034874			35.44- 95.44	65.28	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	812358	10.0000	10.133	70.00- 130.00	100.00	
22.922	22.922	(1.068)	95	1097912			104.84- 164.84	135.15	
22.922	22.922	(1.068)	176	790478			67.30- 127.30	97.31	

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.289	5.289	(0.346)	85	321497	2.00000	1.736	70.00- 130.00	100.00	
5.289	5.289	(0.346)	87	103822			0.00- 30.00	32.29	

3 Freon 114 CAS #: 76-14-2									
6.736	6.736	(0.441)	135	212053	2.00000	1.794	70.00- 130.00	100.00	
6.760	6.760	(0.443)	137	67613			0.00- 30.00	31.89	

4 Chloromethane CAS #: 74-87-3									
7.049	7.049	(0.462)	50	96687	2.00000	1.657	70.00- 130.00	100.00	
7.049	7.049	(0.462)	52	31581			0.00- 30.00	32.66	

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	114575	2.00000	1.650	70.00- 130.00	100.00	
7.914	7.914	(0.518)	64	36619			1.90- 61.90	31.96	

9 Chloroethane CAS #: 75-00-3									
10.012	10.012	(0.656)	64	52657	2.00000	1.942	70.00- 130.00	100.00	
10.012	10.012	(0.656)	66	17474			0.00- 30.00	33.18	

12 1,1-Dichloroethene CAS #: 75-35-4									
12.043	12.043	(0.789)	98	71029	2.00000	1.672	70.00- 130.00	100.00	
12.023	12.023	(0.787)	61	179823			0.00- 30.00	253.17	
12.043	12.043	(0.789)	96	111379			0.00- 30.00	156.81	

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	77805	2.00000	1.692	70.00- 130.00	100.00	
13.435	13.435	(0.880)	61	169991			0.00- 30.00	218.48	
13.435	13.435	(0.880)	96	122760			0.00- 30.00	157.78	

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	303916	2.00000	1.704	70.00- 130.00	100.00	
13.380	13.380	(0.876)	57	62099			0.00- 30.00	20.43	
13.380	13.380	(0.876)	41	67475			0.00- 30.00	22.20	

25 1,1-Dichloroethane CAS #: 75-34-3									
14.122	14.122	(0.925)	63	217467	2.00000	1.717	70.00- 130.00	100.00	
14.122	14.122	(0.925)	65	70449			2.01- 62.01	32.40	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

29 cis-1,2-Dichloroethene						CAS #: 156-59-2			
14.928	14.928	(0.978)	98	78816	2.00000	1.705	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	159003			0.00- 30.00	201.74	
14.928	14.928	(0.978)	96	127652			0.00- 30.00	161.96	

32 Chloroform						CAS #: 67-66-3			
15.331	15.331	(1.004)	83	246805	2.00000	1.605	70.00- 130.00	100.00	
15.331	15.331	(1.004)	85	160518			34.91- 94.91	65.04	

34 1,1,1-Trichloroethane						CAS #: 71-55-6			
15.577	15.577	(1.020)	97	249423	2.00000	1.700	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	159989			34.38- 94.38	64.14	

35 Carbon Tetrachloride						CAS #: 56-23-5			
15.793	15.793	(1.034)	119	232771	2.00000	1.705	70.00- 130.00	100.00	
15.793	15.793	(1.034)	117	241149			72.86- 132.86	103.60	

36 Benzene						CAS #: 71-43-2			
16.112	16.112	(0.967)	78	382132	2.00000	1.678	70.00- 130.00	100.00	
16.112	16.112	(0.967)	77	89876			0.00- 30.00	23.52	

38 1,2-Dichloroethane						CAS #: 107-06-2			
16.194	16.194	(0.972)	62	165667	2.00000	1.820	70.00- 130.00	100.00	
16.222	16.222	(0.974)	64	49676			0.00- 30.00	29.99	

41 Trichloroethene						CAS #: 79-01-6			
17.073	17.073	(1.025)	130	165680	2.00000	1.610	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	165082			68.89- 128.89	99.64	
17.073	17.073	(1.025)	97	106016			33.94- 93.94	63.99	

48 Toluene						CAS #: 108-88-3			
19.359	19.359	(1.162)	91	421254	2.00000	1.702	70.00- 130.00	100.00	
19.359	19.359	(1.162)	92	248421			29.27- 89.27	58.97	

50 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.050	20.050	(0.934)	97	154743	2.00000	1.672	70.00- 130.00	100.00	
20.050	20.050	(0.934)	99	96420			32.82- 92.82	62.31	
20.050	20.050	(0.934)	83	133885			56.06- 116.06	86.52	

51 Tetrachloroethene						CAS #: 127-18-4			
20.212	20.212	(0.941)	166	217572	2.00000	1.634	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	156243			42.14- 102.14	71.81	
20.212	20.212	(0.941)	131	151742			39.68- 99.68	69.74	

55 1,2-Dibromoethane						CAS #: 106-93-4			
20.863	20.863	(0.972)	107	231868	2.00000	1.774	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	217869			64.37- 124.37	93.96	

58 Ethyl Benzene CAS #: 100-41-4									
21.590	21.590	(1.006)	106	148314	2.00000	1.744	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	492767			0.00- 30.00	332.25	

59 m,p-Xylene CAS #: 108-38-3									
21.735	21.735	(1.012)	106	154259	2.00000	1.710	70.00- 130.00	100.00	
21.735	21.735	(1.012)	91	324975			0.00- 30.00	210.67	

61 o-Xylene CAS #: 95-47-6									
22.265	22.265	(1.037)	106	146082	2.00000	1.764	70.00- 130.00	100.00	
22.265	22.265	(1.037)	91	332561			189.42- 249.42	227.65	

67 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.076	23.076	(1.075)	83	328238	2.00000	1.707	70.00- 130.00	100.00	
23.076	23.076	(1.075)	85	210072			34.42- 94.42	64.00	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a091512sim.d
 Lab Smp Id: ICAL
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: db
 Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m
 Misc Info: 2.0ppbv (2.0ppbv)

Calibration Date: 15-SEP-2010
 Calibration Time: 16:48
 Client Smp ID: Level 7
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	447312	3.00
40 1,4-Difluorobenze	1769518	1061711	2477325	1765831	-0.21
56 Chlorobenzene-d5	1620049	972029	2268069	1607552	-0.77

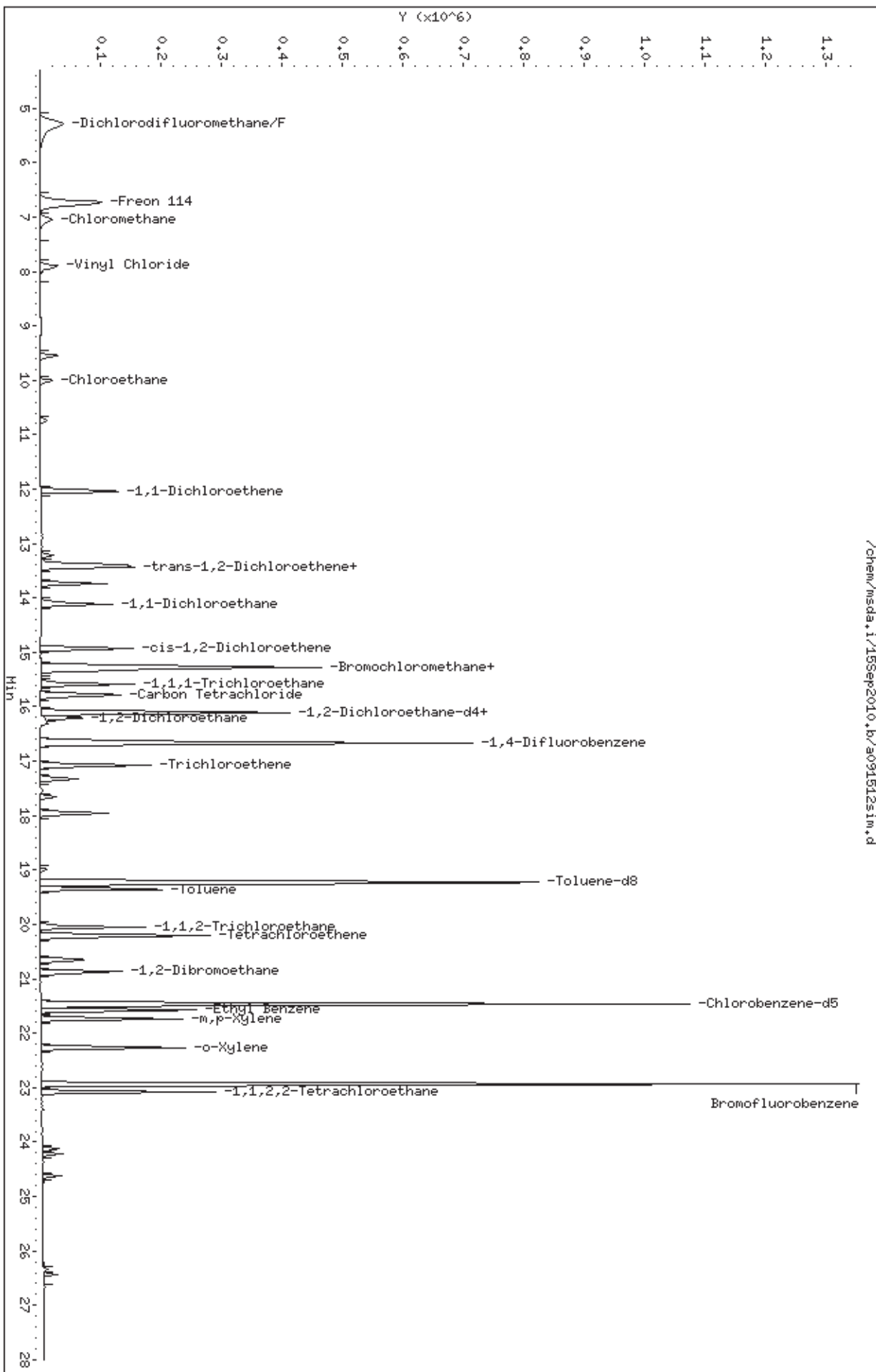
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091512sim.d
Date: 15-SEP-2010 15:30
Client ID: Level 7
Sample Info: 250ml #1936-333

Column phase: RTX-624

Instrument: msda.i
Operator: dbp
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091513sim.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 15-SEP-2010 16:06
Operator : db Inst ID: msda.i
Smp Info : 25ml #1936-327
Misc Info : 5ppbv (50ppbv)
Comment :
Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
Meth Date : 16-Sep-2010 09:46 dpage Quant Type: ISTD
Cal Date : 15-SEP-2010 16:06 Cal File: a091513sim.d
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	439517	10.0000			70.00- 130.00	100.00
15.269	15.269	(1.000)	128	340125				0.00- 30.00	77.39
15.269	15.269	(1.000)	49	620660				0.00- 30.00	141.21

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1822016	10.0000			70.00- 130.00	100.00
16.661	16.661	(1.000)	88	301802				0.00- 46.55	16.56

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.470	21.470	(1.000)	117	1646012	10.0000			70.00- 130.00	100.00
21.470	21.470	(1.000)	82	909548				0.00- 30.00	55.26

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.084	16.084	(1.053)	65	655291	10.0000	10.126		70.00- 130.00	100.00
16.084	16.084	(1.053)	67	369043				0.00- 30.00	56.32

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1633791	10.0000	10.087		70.00- 130.00	100.00
19.225	19.225	(1.154)	70	200042				0.00- 42.23	12.24

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1069199			35.44-	95.44	65.44

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	847752	10.0000	10.290	70.00-	130.00	100.00
22.922	22.922	(1.068)	95	1142074			104.84-	164.84	134.72
22.922	22.922	(1.068)	176	821667			67.30-	127.30	96.92

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.265	5.265	(0.345)	85	970494	5.00000	5.284	70.00-	130.00	100.00
5.265	5.265	(0.345)	87	313596			0.00-	30.00	32.31

3 Freon 114 CAS #: 76-14-2									
6.712	6.712	(0.440)	135	611566	5.00000	5.226	70.00-	130.00	100.00
6.712	6.712	(0.440)	137	195032			0.00-	30.00	31.89

4 Chloromethane CAS #: 74-87-3									
7.025	7.025	(0.460)	50	287301	5.00000	5.010	70.00-	130.00	100.00
7.025	7.025	(0.460)	52	93691			0.00-	30.00	32.61

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	353324	5.00000	5.154	70.00-	130.00	100.00
7.897	7.897	(0.517)	64	112588			1.90-	61.90	31.87

9 Chloroethane CAS #: 75-00-3									
9.991	9.991	(0.654)	64	156200	5.00000	5.700	70.00-	130.00	100.00
9.991	9.991	(0.654)	66	51106			0.00-	30.00	32.72

12 1,1-Dichloroethene CAS #: 75-35-4									
12.023	12.023	(0.787)	98	223734	5.00000	5.312	70.00-	130.00	100.00
12.023	12.023	(0.787)	61	561809			0.00-	30.00	251.11
12.023	12.023	(0.787)	96	349764			0.00-	30.00	156.33

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	253380	5.00000	5.514	70.00-	130.00	100.00
13.408	13.408	(0.878)	61	546293			0.00-	30.00	215.60
13.435	13.435	(0.880)	96	396522			0.00-	30.00	156.49

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	997105	5.00000	5.581	70.00-	130.00	100.00
13.380	13.380	(0.876)	57	210589			0.00-	30.00	21.12
13.380	13.380	(0.876)	41	225871			0.00-	30.00	22.65

25 1,1-Dichloroethane CAS #: 75-34-3									
14.121	14.121	(0.925)	63	683727	5.00000	5.418	70.00-	130.00	100.00
14.121	14.121	(0.925)	65	219800			2.01-	62.01	32.15

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	=====

29 cis-1,2-Dichloroethene						CAS #: 156-59-2			
14.928	14.928	(0.978)	98	251610	5.00000	5.455	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	500435			0.00- 30.00	198.89	
14.928	14.928	(0.978)	96	398782			0.00- 30.00	158.49	

32 Chloroform						CAS #: 67-66-3			
15.331	15.331	(1.004)	83	784392	5.00000	5.167	70.00- 130.00	100.00	
15.331	15.331	(1.004)	85	508977			34.91- 94.91	64.89	

34 1,1,1-Trichloroethane						CAS #: 71-55-6			
15.577	15.577	(1.020)	97	810634	5.00000	5.525	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	521342			34.38- 94.38	64.31	

35 Carbon Tetrachloride						CAS #: 56-23-5			
15.793	15.793	(1.034)	119	762291	5.00000	5.587	70.00- 130.00	100.00	
15.762	15.762	(1.032)	117	786919			72.86- 132.86	103.23	

36 Benzene						CAS #: 71-43-2			
16.112	16.112	(0.967)	78	1202561	5.00000	5.097	70.00- 130.00	100.00	
16.112	16.112	(0.967)	77	281297			0.00- 30.00	23.39	

38 1,2-Dichloroethane						CAS #: 107-06-2			
16.194	16.194	(0.972)	62	532114	5.00000	5.574	70.00- 130.00	100.00	
16.194	16.194	(0.972)	64	167775			0.00- 30.00	31.53	

41 Trichloroethene						CAS #: 79-01-6			
17.073	17.073	(1.025)	130	530590	5.00000	4.999	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	524255			68.89- 128.89	98.81	
17.073	17.073	(1.025)	97	339034			33.94- 93.94	63.90	

48 Toluene						CAS #: 108-88-3			
19.337	19.337	(1.161)	91	1326804	5.00000	5.166	70.00- 130.00	100.00	
19.359	19.359	(1.162)	92	785576			29.27- 89.27	59.21	

50 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.050	20.050	(0.934)	97	494512	5.00000	5.191	70.00- 130.00	100.00	
20.050	20.050	(0.934)	99	309702			32.82- 92.82	62.63	
20.050	20.050	(0.934)	83	423025			56.06- 116.06	85.54	

51 Tetrachloroethene						CAS #: 127-18-4			
20.212	20.212	(0.941)	166	690644	5.00000	5.059	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	492547			42.14- 102.14	71.32	
20.212	20.212	(0.941)	131	478917			39.68- 99.68	69.34	

55 1,2-Dibromoethane						CAS #: 106-93-4			
20.863	20.863	(0.972)	107	752784	5.00000	5.525	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	706330			64.37- 124.37	93.83	

58 Ethyl Benzene CAS #: 100-41-4									
21.566	21.566	(1.004)	106	470292	5.00000	5.340	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	1551011			0.00- 30.00	329.80	

59 m,p-Xylene CAS #: 108-38-3									
21.735	21.735	(1.012)	106	491828	5.00000	5.276	70.00- 130.00	100.00	
21.735	21.735	(1.012)	91	1021403			0.00- 30.00	207.67	

61 o-Xylene CAS #: 95-47-6									
22.265	22.265	(1.037)	106	465396	5.00000	5.414	70.00- 130.00	100.00	
22.265	22.265	(1.037)	91	1026448			189.42- 249.42	220.55	

67 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.076	23.076	(1.075)	83	1027450	5.00000	5.190	70.00- 130.00	100.00	
23.076	23.076	(1.075)	85	663865			34.42- 94.42	64.61	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091513sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 8
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 5ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	439517	1.20
40 1,4-Difluorobenze	1769518	1061711	2477325	1822016	2.97
56 Chlorobenzene-d5	1620049	972029	2268069	1646012	1.60

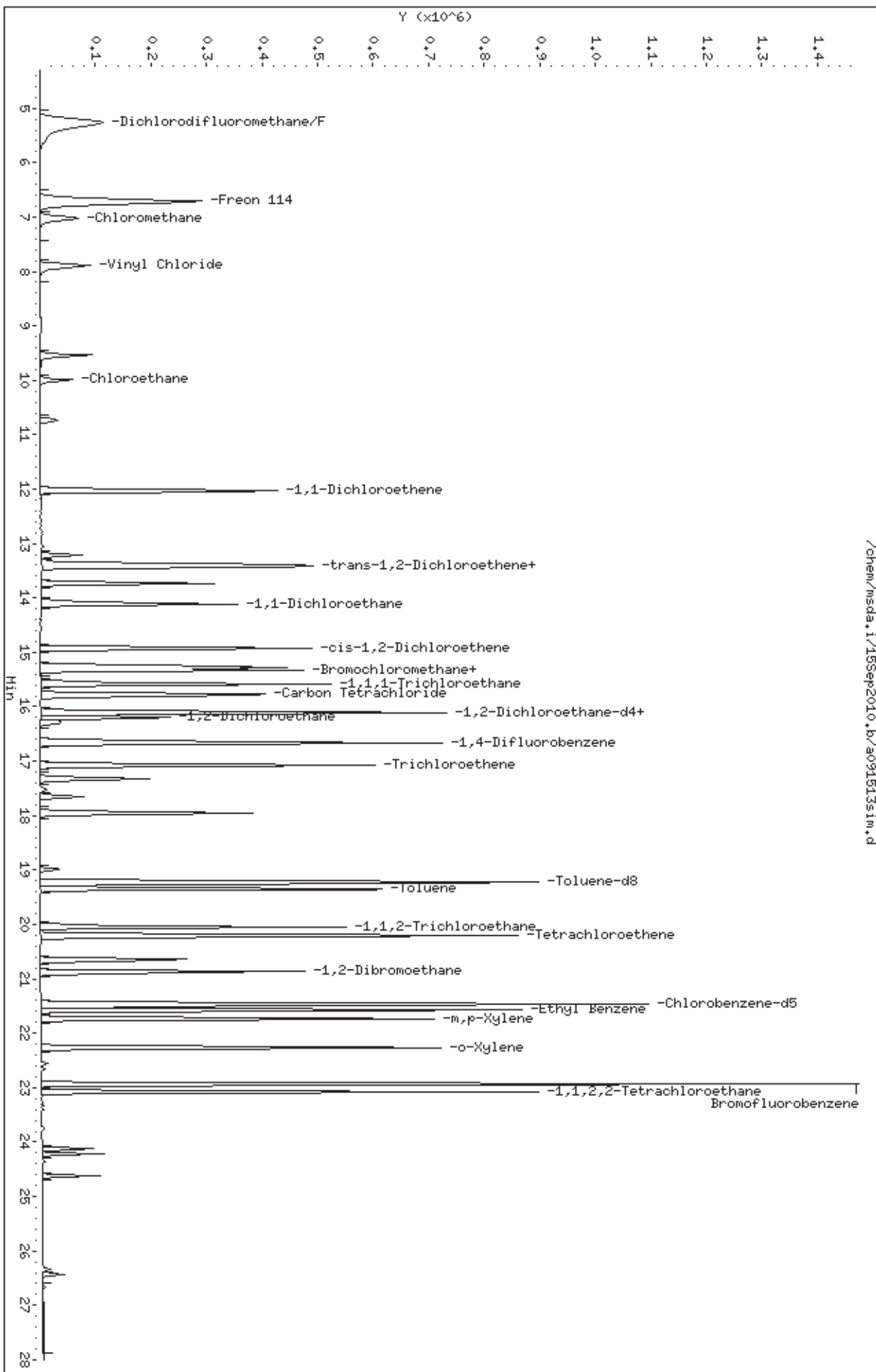
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091513sim.d
Date: 15-SEP-2010 16:06
Client ID: Level 8
Sample Info: 25ml #1936-327

Column phase: RTX-624

Instrument: msda.i
Operator: dbp
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091514sim.d
 Lab Smp Id: ICAL Client Smp ID: Level 9
 Inj Date : 15-SEP-2010 16:48
 Operator : db Inst ID: msda.i
 Smp Info : 50ml #1936-327
 Misc Info : 10ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Meth Date : 16-Sep-2010 08:35 dpage Quant Type: ISTD
 Cal Date : 15-SEP-2010 16:48 Cal File: a091514sim.d
 Als bottle: 2 Calibration Sample, Level: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: HILOcrv.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	434303	10.0000		80.00-	120.00	100.00
15.269	15.269	(1.000)	128	335591			47.27-	107.27	77.27
15.269	15.269	(1.000)	49	661181			122.24-	182.24	152.24

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1769518	10.0000		80.00-	120.00	100.00
16.661	16.661	(1.000)	88	292915			0.00-	46.55	16.55

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.470	21.470	(1.000)	117	1620049	10.0000		80.00-	120.00	100.00
21.470	21.470	(1.000)	82	891629			25.04-	85.04	55.04

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.085	16.085	(1.053)	65	633389	10.0000	10.000	80.00-	120.00	100.00
16.085	16.085	(1.053)	67	371423			28.64-	88.64	58.64

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1602566	10.0000	10.000	80.00-	120.00	100.00
19.225	19.225	(1.154)	70	196056			0.00-	42.23	12.23

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1048658			35.44- 95.44	65.44	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	848142	10.0000	10.000	80.00- 120.00	100.00	
22.922	22.922	(1.068)	95	1143630			104.84- 164.84	134.84	
22.922	22.922	(1.068)	176	825267			67.30- 127.30	97.30	

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.290	5.290	(0.346)	85	1815756	10.0000	10.000	80.00- 120.00	100.00	
5.290	5.290	(0.346)	87	586542			2.30- 62.30	32.30	

3 Freon 114 CAS #: 76-14-2									
6.736	6.736	(0.441)	135	1161401	10.0000	10.000	80.00- 120.00	100.00	
6.736	6.736	(0.441)	137	370284			1.88- 61.88	31.88	

4 Chloromethane CAS #: 74-87-3									
7.025	7.025	(0.460)	50	542652	10.0000	10.000	80.00- 120.00	100.00	
7.049	7.049	(0.462)	52	173864			2.04- 62.04	32.04	

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	650328	10.0000	10.000	80.00- 120.00	100.00	
7.897	7.897	(0.517)	64	207436			1.90- 61.90	31.90	

9 Chloroethane CAS #: 75-00-3									
10.012	10.012	(0.656)	64	302152	10.0000	10.000	80.00- 120.00	100.00	
10.012	10.012	(0.656)	66	98851			2.72- 62.72	32.72	

12 1,1-Dichloroethene CAS #: 75-35-4									
12.044	12.044	(0.789)	98	408914	10.0000	10.000	80.00- 120.00	100.00	
12.023	12.023	(0.787)	61	1013843			217.94- 277.94	247.94	
12.044	12.044	(0.789)	96	638774			126.21- 186.21	156.21	

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	453904	10.0000	10.000	80.00- 120.00	100.00	
13.435	13.435	(0.880)	61	974671			184.73- 244.73	214.73	
13.435	13.435	(0.880)	96	709882			126.39- 186.39	156.39	

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	1798121	10.0000	10.000	80.00- 120.00	100.00	
13.380	13.380	(0.876)	57	380127			0.00- 51.14	21.14	
13.380	13.380	(0.876)	41	398516			0.00- 52.16	22.16	

25 1,1-Dichloroethane CAS #: 75-34-3									
14.122	14.122	(0.925)	63	1233847	10.0000	10.000	80.00- 120.00	100.00	
14.122	14.122	(0.925)	65	394904			2.01- 62.01	32.01	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

29 cis-1,2-Dichloroethene						CAS #: 156-59-2			
14.928	14.928	(0.978)	98	453956	10.0000	10.000	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	899782			168.21- 228.21	198.21	
14.928	14.928	(0.978)	96	715741			127.67- 187.67	157.67	

32 Chloroform						CAS #: 67-66-3			
15.331	15.331	(1.004)	83	1406825	10.0000	10.000	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	913175			34.91- 94.91	64.91	

34 1,1,1-Trichloroethane						CAS #: 71-55-6			
15.577	15.577	(1.020)	97	1455737	10.0000	10.000	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	937208			34.38- 94.38	64.38	

35 Carbon Tetrachloride						CAS #: 56-23-5			
15.793	15.793	(1.034)	119	1385065	10.0000	10.000	80.00- 120.00	100.00	
15.793	15.793	(1.034)	117	1424679			72.86- 132.86	102.86	

36 Benzene						CAS #: 71-43-2			
16.112	16.112	(0.967)	78	2170563	10.0000	10.000	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	511710			0.00- 53.58	23.58	

38 1,2-Dichloroethane						CAS #: 107-06-2			
16.194	16.194	(0.972)	62	952735	10.0000	10.000	80.00- 120.00	100.00	
16.222	16.222	(0.974)	64	299931			1.48- 61.48	31.48	

41 Trichloroethene						CAS #: 79-01-6			
17.073	17.073	(1.025)	130	955334	10.0000	10.000	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	944704			68.89- 128.89	98.89	
17.073	17.073	(1.025)	97	610871			33.94- 93.94	63.94	

48 Toluene						CAS #: 108-88-3			
19.360	19.360	(1.162)	91	2439208	10.0000	10.000	80.00- 120.00	100.00	
19.360	19.360	(1.162)	92	1445719			29.27- 89.27	59.27	

50 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.050	20.050	(0.934)	97	898993	10.0000	10.000	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	564722			32.82- 92.82	62.82	
20.050	20.050	(0.934)	83	773636			56.06- 116.06	86.06	

51 Tetrachloroethene						CAS #: 127-18-4			
20.212	20.212	(0.941)	166	1260406	10.0000	10.000	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	909304			42.14- 102.14	72.14	
20.212	20.212	(0.941)	131	878220			39.68- 99.68	69.68	

55 1,2-Dibromoethane						CAS #: 106-93-4			
20.863	20.863	(0.972)	107	1379954	10.0000	10.000	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	1302272			64.37- 124.37	94.37	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	887105	10.0000	10.000	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	2912344			298.30- 358.30	328.30	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	932683	10.0000	10.000	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	1915670			175.39- 235.39	205.39	

61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	883462	10.0000	10.000	80.00- 120.00	100.00	
22.265	22.265	(1.037)	91	1938491			189.42- 249.42	219.42	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.077	23.077	(1.075)	83	1916255	10.0000	10.000	80.00- 120.00	100.00	
23.077	23.077	(1.075)	85	1234458			34.42- 94.42	64.42	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091514sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 9
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 10ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	434303	0.00
40 1,4-Difluorobenze	1769518	1061711	2477325	1769518	0.00
56 Chlorobenzene-d5	1620049	972029	2268069	1620049	0.00

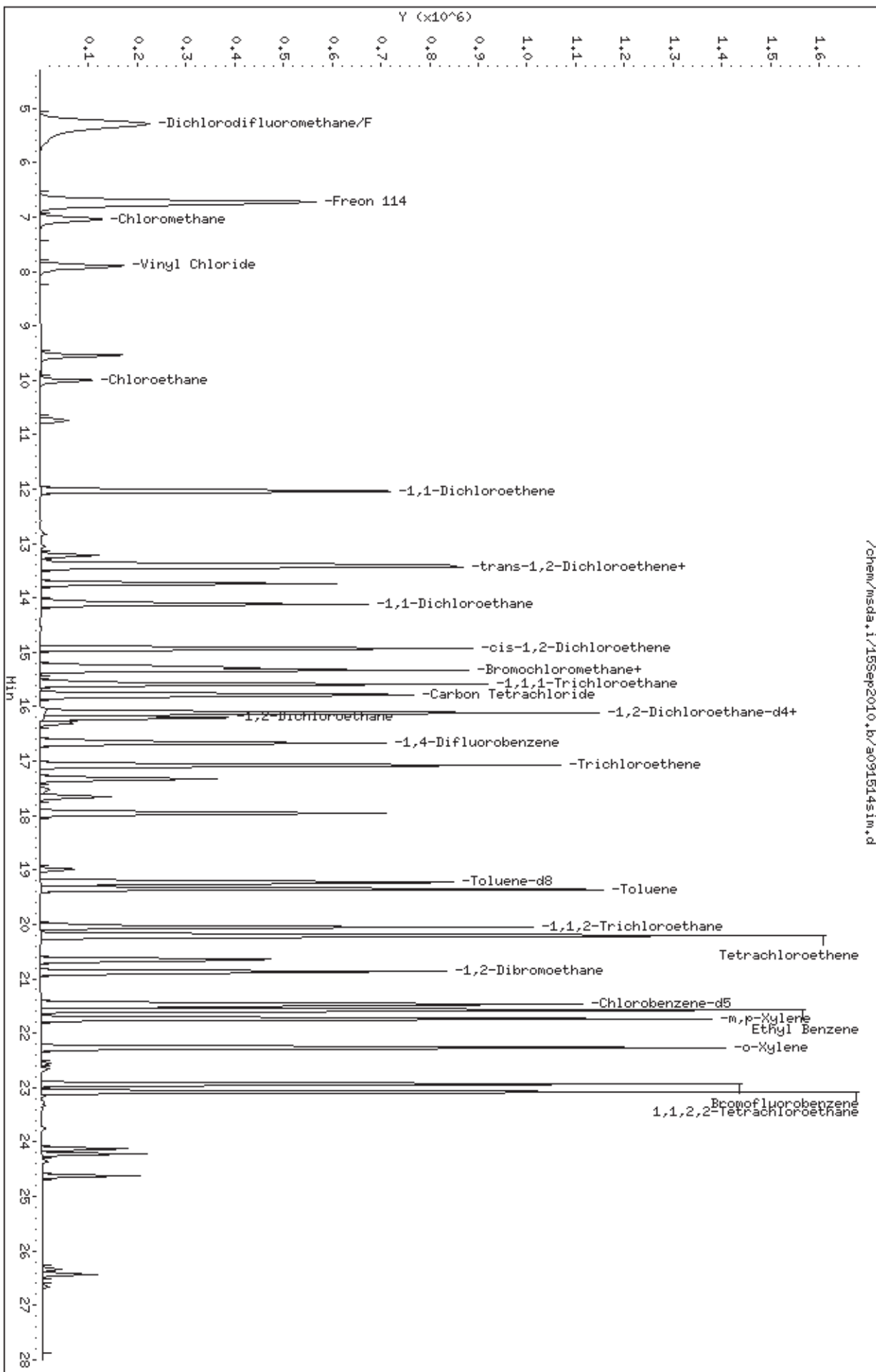
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/15Sep2010.b/a091514sim.d
Date: 15-SEP-2010 16:48
Client ID: Level 9
Sample Info: 50ml #1936-327

Column phase: RTX-624

Instrument: msda.i
Operator: dbj
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/15Sep2010.b/a091515sim.d
 Lab Smp Id: ICAL Client Smp ID: Level 10
 Inj Date : 15-SEP-2010 17:24
 Operator : db Inst ID: msda.i
 Smp Info : 100ml #1936-327
 Misc Info : 20ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/15Sep2010.b/a10s0915a.m
 Meth Date : 16-Sep-2010 09:50 dpage Quant Type: ISTD
 Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
 Als bottle: 2 Calibration Sample, Level: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: HILOcrv.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET	RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	430153	10.0000		70.00-	130.00	100.00
15.269	15.269	(1.000)	128	332347			0.00-	30.00	77.26
15.269	15.269	(1.000)	49	751082			0.00-	30.00	174.61

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1782950	10.0000		70.00-	130.00	100.00
16.661	16.661	(1.000)	88	294914			0.00-	46.55	16.54

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.470	21.470	(1.000)	117	1657569	10.0000		70.00-	130.00	100.00
21.470	21.470	(1.000)	82	916442			0.00-	30.00	55.29

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.084	16.084	(1.053)	65	666785	10.0000	10.473	70.00-	130.00	100.00
16.084	16.084	(1.053)	67	408038			0.00-	30.00	61.19

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1627809	10.0000	10.243	70.00-	130.00	100.00
19.225	19.225	(1.154)	70	198186			0.00-	42.23	12.18

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	1065871			35.44-	95.44	65.48

\$ 66 Bromofluorobenzene									
						CAS #:	460-00-4		
22.922	22.922	(1.068)	174	887809	10.0000	10.627	70.00-	130.00	100.00
22.922	22.922	(1.068)	95	1195451			104.84-	164.84	134.65
22.922	22.922	(1.068)	176	859148			67.30-	127.30	96.77

1 Dichlorodifluoromethane/Fr12									
						CAS #:	75-71-8		
5.290	5.290	(0.346)	85	3398379	20.0000	19.037	70.00-	130.00	100.00
5.290	5.290	(0.346)	87	1101208			0.00-	30.00	32.40

3 Freon 114									
						CAS #:	76-14-2		
6.736	6.736	(0.441)	135	2193218	20.0000	19.251	70.00-	130.00	100.00
6.736	6.736	(0.441)	137	700858			0.00-	30.00	31.96

4 Chloromethane									
						CAS #:	74-87-3		
7.025	7.025	(0.460)	50	1006337	20.0000	18.200	70.00-	130.00	100.00
7.025	7.025	(0.460)	52	325660			0.00-	30.00	32.36

5 Vinyl Chloride									
						CAS #:	75-01-4		
7.897	7.897	(0.517)	62	1237101	20.0000	18.602	70.00-	130.00	100.00
7.897	7.897	(0.517)	64	394990			1.90-	61.90	31.93

9 Chloroethane									
						CAS #:	75-00-3		
9.991	9.991	(0.654)	64	594441	20.0000	21.827	70.00-	130.00	100.00(A)
9.991	9.991	(0.654)	66	197661			0.00-	30.00	33.25

12 1,1-Dichloroethene									
						CAS #:	75-35-4		
12.023	12.023	(0.787)	98	781333	20.0000	19.066	70.00-	130.00	100.00
12.023	12.023	(0.787)	61	1932954			0.00-	30.00	247.39
12.023	12.023	(0.787)	96	1220894			0.00-	30.00	156.26

22 trans-1,2-Dichloroethene									
						CAS #:	156-60-5		
13.435	13.435	(0.880)	98	874567	20.0000	19.513	70.00-	130.00	100.00
13.408	13.408	(0.878)	61	1875559			0.00-	30.00	214.46
13.435	13.435	(0.880)	96	1369217			0.00-	30.00	156.56

21 MTBE									
						CAS #:	1634-04-4		
13.380	13.380	(0.876)	73	3550351	20.0000	20.266	70.00-	130.00	100.00(A)
13.380	13.380	(0.876)	57	733261			0.00-	30.00	20.65
13.380	13.380	(0.876)	41	719460			0.00-	30.00	20.26

25 1,1-Dichloroethane									
						CAS #:	75-34-3		
14.122	14.122	(0.925)	63	2342228	20.0000	19.089	70.00-	130.00	100.00
14.122	14.122	(0.925)	65	754048			2.01-	62.01	32.19

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

29 cis-1,2-Dichloroethene						CAS #: 156-59-2			
14.928	14.928	(0.978)	98	876054	20.0000	19.480	70.00- 130.00	100.00	
14.928	14.928	(0.978)	61	1724073			0.00- 30.00	196.80	
14.928	14.928	(0.978)	96	1373701			0.00- 30.00	156.81	

32 Chloroform						CAS #: 67-66-3			
15.331	15.331	(1.004)	83	2691205	20.0000	18.304	70.00- 130.00	100.00	
15.331	15.331	(1.004)	85	1751933			34.91- 94.91	65.10	

34 1,1,1-Trichloroethane						CAS #: 71-55-6			
15.577	15.577	(1.020)	97	2833641	20.0000	19.766	70.00- 130.00	100.00	
15.577	15.577	(1.020)	99	1828323			34.38- 94.38	64.52	

35 Carbon Tetrachloride						CAS #: 56-23-5			
15.793	15.793	(1.034)	119	2705067	20.0000	20.228	70.00- 130.00	100.00(A)	
15.793	15.793	(1.034)	117	2781410			72.86- 132.86	102.82	

36 Benzene						CAS #: 71-43-2			
16.112	16.112	(0.967)	78	4147623	20.0000	18.230	70.00- 130.00	100.00	
16.112	16.112	(0.967)	77	973720			0.00- 30.00	23.48	

38 1,2-Dichloroethane						CAS #: 107-06-2			
16.194	16.194	(0.972)	62	1828265	20.0000	19.618	70.00- 130.00	100.00	
16.222	16.222	(0.974)	64	583030			0.00- 30.00	31.89	

41 Trichloroethene						CAS #: 79-01-6			
17.073	17.073	(1.025)	130	1853073	20.0000	18.036	70.00- 130.00	100.00	
17.073	17.073	(1.025)	95	1833868			68.89- 128.89	98.96	
17.073	17.073	(1.025)	97	1187051			33.94- 93.94	64.06	

48 Toluene						CAS #: 108-88-3			
19.360	19.360	(1.162)	91	4666934	20.0000	18.736	70.00- 130.00	100.00	
19.360	19.360	(1.162)	92	2781411			29.27- 89.27	59.60	

50 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.050	20.050	(0.934)	97	1753704	20.0000	18.458	70.00- 130.00	100.00	
20.050	20.050	(0.934)	99	1100557			32.82- 92.82	62.76	
20.050	20.050	(0.934)	83	1496296			56.06- 116.06	85.32	

51 Tetrachloroethene						CAS #: 127-18-4			
20.212	20.212	(0.941)	166	2412765	20.0000	17.768	70.00- 130.00	100.00	
20.212	20.212	(0.941)	129	1730289			42.14- 102.14	71.71	
20.212	20.212	(0.941)	131	1677286			39.68- 99.68	69.52	

55 1,2-Dibromoethane						CAS #: 106-93-4			
20.863	20.863	(0.972)	107	2679291	20.0000	19.586	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	2529155			64.37- 124.37	94.40	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	1750471	20.0000	19.770	70.00- 130.00	100.00	
21.566	21.566	(1.004)	91	5696886			0.00- 30.00	325.45	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	1891706	20.0000	20.134	70.00- 130.00	100.00(A)	
21.735	21.735	(1.012)	91	3883806			0.00- 30.00	205.31	

61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	1806601	20.0000	20.758	70.00- 130.00	100.00(A)	
22.265	22.265	(1.037)	91	3915690			189.42- 249.42	216.74	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.077	23.077	(1.075)	83	3798715	20.0000	19.155	70.00- 130.00	100.00	
23.077	23.077	(1.075)	85	2452036			34.42- 94.42	64.55	

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 15-SEP-2010
Lab File ID: a091515sim.d	Calibration Time: 16:48
Lab Smp Id: ICAL	Client Smp ID: Level 10
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: db	
Method File: /chem/msda.i/15Sep2010.b/a10s0915a.m	
Misc Info: 20ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	434303	260582	608024	430153	-0.96
40 1,4-Difluorobenze	1769518	1061711	2477325	1782950	0.76
56 Chlorobenzene-d5	1620049	972029	2268069	1657569	2.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Client Sample ID: CCV

Lab ID#: 1009208-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092718	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 07:59 PM

Compound	%Recovery
Chloromethane	93
1,3-Butadiene	100
Bromomethane	98
Chloroethane	87
Freon 11	100
Ethanol	105
Freon 113	113
Acetone	113
2-Propanol	109
Carbon Disulfide	108
3-Chloropropene	104
Methylene Chloride	98
Hexane	101
2-Butanone (Methyl Ethyl Ketone)	105
Tetrahydrofuran	102
Chloroform	104
Cyclohexane	106
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	93
Heptane	100
1,2-Dichloropropane	104
1,4-Dioxane	104
Bromodichloromethane	106
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	98
trans-1,3-Dichloropropene	106
2-Hexanone	106
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	107
Chlorobenzene	106
Styrene	107
Bromoform	119
Cumene	109
Propylbenzene	112
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	109

Client Sample ID: CCV

Lab ID#: 1009208-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092718	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 07:59 PM

Compound	%Recovery
----------	-----------

1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
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1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 27-SEP-2010 19:59
 Lab File ID: a092718.d Init. Cal. Date(s): 15-SEP-2010 20-SEP-2010
 Analysis Type: AIR Init. Cal. Times: 12:55 20:09
 Lab Sample ID: CCV Quant Type: ISTD
 Method: /chem/msda.i/27Sep2010a.b/a1010915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 61 1,2-Dichloroethane-d4	1.45351	1.38498	0.010	4.71446	30.00000	Averaged	
\$ 80 Toluene-d8	1.01850	0.98773	0.010	3.02127	30.00000	Averaged	
\$ 100 Bromofluorobenzene	0.51095	0.52831	0.010	-3.39867	30.00000	Averaged	
2 Propylene	0.97695	1.09062	0.010	-11.63595	30.00000	Averaged	
4 Dichlorodifluoromethane/Fr1	4.01701	4.00401	0.010	0.32362	30.00000	Averaged	
6 Freon 114	2.65885	2.63843	0.010	0.76786	30.00000	Averaged	
7 Chloromethane	1.25331	1.16892	0.010	6.73354	30.00000	Averaged	
9 Butane	0.29250	0.29997	0.010	-2.55545	30.00000	Averaged	
10 Vinyl Chloride	1.46610	1.47653	0.010	-0.71119	30.00000	Averaged	
11 1,3-Butadiene	1.01513	1.01949	0.010	-0.42950	30.00000	Averaged	
12 Bromomethane	0.79098	0.77533	0.010	1.97876	30.00000	Averaged	
13 Chloroethane	0.65872	0.57199	0.010	13.16654	30.00000	Averaged	
14 Isopentane	1.08873	1.12199	0.010	-3.05493	30.00000	Averaged	
16 Trichlorofluoromethane/Fr11	3.73599	3.74244	0.010	-0.17265	30.00000	Averaged	
20 Ethanol	0.44804	0.47189	0.010	-5.32360	30.00000	Averaged	
23 1,1-Dichloroethene	0.87111	0.95685	0.010	-9.84261	30.00000	Averaged	
22 Freon 113	2.34694	2.65714	0.010	-13.21728	30.00000	Averaged	
24 Acetone	0.59423	0.67258	0.010	-13.18516	30.00000	Averaged	
26 Carbon Disulfide	3.92445	4.24162	0.010	-8.08203	30.00000	Averaged	
28 3-Chloroprene	0.49420	0.51246	0.010	-3.69527	30.00000	Averaged	
27 2-Propanol	2.24354	2.45141	0.010	-9.26512	30.00000	Averaged	
33 Methylene Chloride	1.31682	1.29647	0.010	1.54540	30.00000	Averaged	
34 tert-butyl alcohol	2.60502	2.72066	0.010	-4.43899	30.00000	Averaged	
35 MTBE	4.34852	4.58037	0.010	-5.33152	30.00000	Averaged	
36 trans-1,2-Dichloroethene	1.01002	1.10647	0.010	-9.54913	30.00000	Averaged	
40 Hexane	2.42803	2.45706	0.010	-1.19584	30.00000	Averaged	
41 Isopropyl ether	4.74552	4.87312	0.010	-2.68902	30.00000	Averaged	
42 1,1-Dichloroethane	2.81809	2.85486	0.010	-1.30486	30.00000	Averaged	
44 Vinyl Acetate	0.38854	0.44855	0.010	-15.44485	30.00000	Averaged	
46 Ethyl-tert-butyl ether	4.53335	4.82538	0.010	-6.44181	30.00000	Averaged	
47 cis-1,2-Dichloroethene	1.02373	1.08931	0.010	-6.40579	30.00000	Averaged	
48 2-Butanone	0.81982	0.86019	0.010	-4.92410	30.00000	Averaged	
51 Tetrahydrofuran	1.57038	1.60111	0.010	-1.95700	30.00000	Averaged	
53 Chloroform	3.18990	3.31918	0.010	-4.05273	30.00000	Averaged	
55 Cyclohexane	2.30265	2.43349	0.010	-5.68178	30.00000	Averaged	
56 1,1,1-Trichloroethane	3.25772	3.42532	0.010	-5.14468	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 27-SEP-2010 19:59
 Lab File ID: a092718.d Init. Cal. Date(s): 15-SEP-2010 20-SEP-2010
 Analysis Type: AIR Init. Cal. Times: 12:55 20:09
 Lab Sample ID: CCV Quant Type: ISTD
 Method: /chem/msda.i/27Sep2010a.b/a1010915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
57 Carbon Tetrachloride	3.31934	3.09608	0.010	6.72613	30.00000	Averaged	
59 2,2,4-Trimethylpentane	2.63368	2.45164	0.010	6.91202	30.00000	Averaged	
60 Benzene	1.24712	1.27389	0.010	-2.14708	30.00000	Averaged	
62 tert-amyl methyl ether	0.25699	0.28649	0.010	-11.48052	30.00000	Averaged	
63 1,2-Dichloroethane	0.53107	0.51711	0.010	2.62892	30.00000	Averaged	
64 Heptane	0.34949	0.35055	0.010	-0.30357	30.00000	Averaged	
67 Trichloroethene	0.53768	0.57373	0.010	-6.70523	30.00000	Averaged	
69 Methylcyclohexane	0.71015	0.76590	0.010	-7.85105	30.00000	Averaged	
72 1,2-Dichloropropane	0.43316	0.44894	0.010	-3.64238	30.00000	Averaged	
74 1,4-Dioxane	0.28283	0.29421	0.010	-4.02087	30.00000	Averaged	
76 Bromodichloromethane	0.78723	0.83066	0.010	-5.51579	30.00000	Averaged	
77 cis-1,3-Dichloropropene	0.63615	0.67276	0.010	-5.75493	30.00000	Averaged	
78 4-Methyl-2-pentanone	0.82143	0.80634	0.010	1.83810	30.00000	Averaged	
81 Toluene	1.39086	1.41940	0.010	-2.05169	30.00000	Averaged	
82 trans-1,3-Dichloropropene	0.70669	0.74632	0.010	-5.60784	30.00000	Averaged	
83 1,1,2-Trichloroethane	0.52189	0.55669	0.010	-6.66761	30.00000	Averaged	
84 Tetrachloroethene	0.71585	0.77091	0.010	-7.69193	30.00000	Averaged	
85 2-Hexanone	0.47732	0.50487	0.010	-5.77381	30.00000	Averaged	
86 Dibromochloromethane	0.78921	0.91848	0.010	-16.37931	30.00000	Averaged	
87 1,2-Dibromoethane	0.80488	0.85907	0.010	-6.73324	30.00000	Averaged	
89 Chlorobenzene	1.18900	1.26204	0.010	-6.14245	30.00000	Averaged	
91 Ethyl Benzene	0.57082	0.61003	0.010	-6.86783	30.00000	Averaged	
93 m,p-Xylene	0.60032	0.65001	0.010	-8.27595	30.00000	Averaged	
94 o-Xylene	0.57233	0.62716	0.010	-9.58073	30.00000	Averaged	
95 Styrene	0.90410	0.96821	0.010	-7.09132	30.00000	Averaged	
97 Bromoform	0.70920	0.84510	0.010	-19.16222	30.00000	Averaged	
98 Cumene	1.69091	1.85038	0.010	-9.43094	30.00000	Averaged	
103 1,1,2,2-Tetrachloroethane	1.10424	1.20894	0.010	-9.48222	30.00000	Averaged	
104 Propylbenzene	1.59268	1.78659	0.010	-12.17475	30.00000	Averaged	
107 4-Ethyltoluene	1.22276	1.37456	0.010	-12.41432	30.00000	Averaged	
109 1,3,5-Trimethylbenzene	0.96122	1.06626	0.010	-10.92767	30.00000	Averaged	
112 1,2,4-Trimethylbenzene	0.68604	0.76469	0.010	-11.46458	30.00000	Averaged	
115 1,3-Dichlorobenzene	0.84006	0.90607	0.010	-7.85861	30.00000	Averaged	
117 1,4-Dichlorobenzene	0.77294	0.80288	0.010	-3.87370	30.00000	Averaged	
118 alpha-chlorotoluene	1.16921	1.41410	0.010	-20.94426	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 27-SEP-2010 19:59
Lab File ID: a092718.d Init. Cal. Date(s): 15-SEP-2010 20-SEP-2010
Analysis Type: AIR Init. Cal. Times: 12:55 20:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/27Sep2010a.b/a1010915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
121 1,2-Dichlorobenzene	0.71269	0.77843	0.010	-9.22352	30.00000	Averaged
126 1,2,4-Trichlorobenzene	0.22554	0.25407	0.010	-12.64961	30.00000	Averaged
128 Hexachlorobutadiene	0.34959	0.36827	0.010	-5.34082	30.00000	Averaged
129 Naphthalene	0.39109	0.43961	0.010	-12.40567	40.00000	Averaged

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AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092718.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-SEP-2010 19:59
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-327
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
Meth Date : 28-Sep-2010 09:09 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	354424	10.0000			80.00- 120.00	100.00
15.255	15.255	(1.000)	128	273637				48.35- 108.35	77.21
15.255	15.255	(1.000)	49	487219				89.31- 149.31	137.47

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1467275	10.0000			80.00- 120.00	100.00
16.647	16.647	(1.000)	88	234057				0.00- 46.24	15.95

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1353012	10.0000			80.00- 120.00	100.00
21.456	21.456	(1.000)	82	757052				25.95- 85.95	55.95

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	490871	10.0000	9.528		80.00- 120.00	100.00
16.098	16.098	(1.055)	67	285473				0.00- 30.00	58.16

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.234	19.234	(1.155)	98	1449270	10.0000	9.698		80.00- 120.00	100.00
19.211	19.211	(1.154)	70	157893				0.00- 30.00	10.89

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.234	19.234	(1.155)	100	971267			37.02- 97.02	67.02	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	714812	10.0000	10.340	80.00- 120.00	100.00	
22.908	22.908	(1.068)	95	923678			99.22- 159.22	129.22	
22.934	22.934	(1.069)	176	688831			66.37- 126.37	96.37	

2 Propylene CAS #: 115-07-1									
4.745	4.745	(0.311)	41	386543	10.0000	11.164	80.00- 120.00	100.00	
4.745	4.745	(0.311)	42	240921			0.00- 30.00	62.33	
4.745	4.745	(0.311)	39	256840			0.00- 30.00	66.45	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.276	5.276	(0.346)	85	1419119	10.0000	9.968	80.00- 120.00	100.00	
5.276	5.276	(0.346)	87	459719			2.39- 62.39	32.39	

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	935123	10.0000	9.923	80.00- 120.00	100.00	
6.722	6.722	(0.441)	137	299971			0.00- 30.00	32.08	

7 Chloromethane CAS #: 74-87-3									
7.011	7.011	(0.460)	50	414294	10.0000	9.327	80.00- 120.00	100.00	
7.011	7.011	(0.460)	52	137465			0.00- 30.00	33.18	

9 Butane CAS #: 106-97-8									
7.761	7.761	(0.509)	58	106318	10.0000	10.256	80.00- 120.00	100.00	
7.761	7.761	(0.509)	43	709267			0.00- 30.00	667.12	

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	523317	10.0000	10.071	80.00- 120.00	100.00	
7.883	7.883	(0.517)	64	166582			1.83- 61.83	31.83	

11 1,3-Butadiene CAS #: 106-99-0									
8.109	8.109	(0.532)	54	361333	10.0000	10.043	80.00- 120.00	100.00	
8.109	8.109	(0.532)	39	340092			0.00- 30.00	94.12	

12 Bromomethane CAS #: 74-83-9									
9.522	9.522	(0.624)	94	274795	10.0000	9.802	80.00- 120.00	100.00	
9.522	9.522	(0.624)	96	255727			63.06- 123.06	93.06	

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	202728	10.0000	8.683	80.00- 120.00	100.00	
9.998	9.998	(0.655)	66	71094			0.00- 30.00	35.07	

14 Isopentane CAS #: 78-78-4									
10.123	10.123	(0.664)	57	397661	10.0000	10.305	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)									
10.143	10.143	(0.665)	43	532791			0.00-	30.00	133.98
10.143	10.143	(0.665)	42	471472			0.00-	30.00	118.56

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	1326411	10.0000	10.017	80.00-	120.00	100.00
10.724	10.724	(0.703)	103	865050			35.22-	95.22	65.22

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	167248	10.0000	10.532	80.00-	120.00	100.00
11.553	11.553	(0.757)	43	34738			0.00-	30.00	20.77
11.553	11.553	(0.757)	46	67726			0.00-	30.00	40.49

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	339131	10.0000	10.984	80.00-	120.00	100.00
12.030	12.030	(0.789)	61	791976			0.00-	30.00	233.53
12.030	12.030	(0.789)	96	529824			0.00-	30.00	156.23

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	941755	10.0000	11.322	80.00-	120.00	100.00
12.009	12.009	(0.787)	153	600047			33.72-	93.72	63.72
12.009	12.009	(0.787)	101	1213206			0.00-	30.00	128.82

24 Acetone CAS #: 67-64-1									
12.279	12.279	(0.805)	58	238377	10.0000	11.318	80.00-	120.00	100.00
12.258	12.258	(0.804)	43	681333			0.00-	30.00	285.82

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	1503333	10.0000	10.808	80.00-	120.00	100.00

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	181627	10.0000	10.370	80.00-	120.00	100.00
12.776	12.776	(0.837)	41	448998			0.00-	30.00	247.21

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	868838	10.0000	10.926	80.00-	120.00	100.00
12.569	12.569	(0.824)	43	151980			0.00-	30.00	17.49
12.569	12.569	(0.824)	59	33084			0.00-	30.00	3.81

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	459500	10.0000	9.845	80.00-	120.00	100.00
13.037	13.037	(0.855)	49	515059			0.00-	30.00	112.09
13.037	13.037	(0.855)	51	157477			0.00-	30.00	34.27

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	964267	10.0000	10.444	80.00-	120.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	221695			0.00- 30.00	22.99	
13.229	13.229	(0.867)	57	96382			0.00- 30.00	10.00	

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	1623392	10.0000	10.533	80.00- 120.00	100.00	
13.367	13.367	(0.876)	57	343837			0.00- 30.00	21.18	
13.367	13.367	(0.876)	41	309416			0.00- 30.00	19.06	

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.422	13.422	(0.880)	98	392159	10.0000	10.955	80.00- 120.00	100.00	
13.422	13.422	(0.880)	61	799081			0.00- 30.00	203.76	
13.422	13.422	(0.880)	96	613643			0.00- 30.00	156.48	

40 Hexane CAS #: 110-54-3									
13.723	13.723	(0.900)	57	870842	10.0000	10.120	80.00- 120.00	100.00	
13.723	13.723	(0.900)	43	526047			0.00- 30.00	60.41	
13.723	13.723	(0.900)	86	176948			0.00- 30.00	20.32	

41 Isopropyl ether CAS #: 108-20-3									
14.053	14.053	(0.921)	45	1727152	10.0000	10.269	80.00- 120.00	100.00	
14.080	14.080	(0.923)	87	556744			0.00- 30.00	32.23	
14.053	14.053	(0.921)	59	216379			0.00- 30.00	12.53	

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	1011831	10.0000	10.130	80.00- 120.00	100.00	
14.108	14.108	(0.925)	65	324081			0.00- 30.00	32.03	

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	158976	10.0000	11.544	80.00- 120.00	100.00	
14.135	14.135	(0.927)	42	181869			0.00- 30.00	114.40	
14.135	14.135	(0.927)	43	2104816			0.00- 30.00	1323.98	

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	1710231	10.0000	10.644	80.00- 120.00	100.00	
14.562	14.562	(0.955)	87	790140			0.00- 30.00	46.20	
14.562	14.562	(0.955)	41	292811			0.00- 30.00	17.12	

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	386078	10.0000	10.640	80.00- 120.00	100.00	
14.915	14.915	(0.978)	61	725194			0.00- 30.00	187.84	
14.915	14.915	(0.978)	96	608252			127.55- 187.55	157.55	

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	304872	10.0000	10.492	80.00- 120.00	100.00	
14.915	14.915	(0.978)	43	1029173			0.00- 30.00	337.58	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
48 2-Butanone (continued)									
14.915	14.915	(0.978)	57	85600			0.00- 30.00	28.08	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	567473	10.0000	10.196	80.00- 120.00	100.00	
15.255	15.255	(1.000)	71	260584			0.00- 30.00	45.92	
15.255	15.255	(1.000)	72	283049			0.00- 30.00	49.88	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	1176397	10.0000	10.405	80.00- 120.00	100.00	
15.317	15.317	(1.004)	85	759985			0.00- 30.00	64.60	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	862486	10.0000	10.568	80.00- 120.00	100.00	
15.594	15.594	(1.022)	56	889724			0.00- 30.00	103.16	
15.594	15.594	(1.022)	41	449722			0.00- 30.00	52.14	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.564	15.564	(1.020)	97	1214014	10.0000	10.514	80.00- 120.00	100.00	
15.564	15.564	(1.020)	99	786105			0.00- 30.00	64.75	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	1097324	10.0000	9.327	80.00- 120.00	100.00	
15.779	15.779	(1.034)	117	1151544			0.00- 30.00	104.94	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	868921	10.0000	9.309	80.00- 120.00	100.00	
16.043	16.043	(1.052)	57	2572068			0.00- 30.00	296.01	
16.043	16.043	(1.052)	41	631885			0.00- 30.00	72.72	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	1869153	10.0000	10.215	80.00- 120.00	100.00	
16.098	16.098	(0.967)	77	437970			0.00- 30.00	23.43	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	420362	10.0000	11.148	80.00- 120.00	100.00	
16.153	16.153	(0.970)	73	1763694			0.00- 30.00	419.57	
16.153	16.153	(0.970)	55	444691			0.00- 30.00	105.79	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	758742	10.0000	9.737	80.00- 120.00	100.00	
16.208	16.208	(0.974)	64	249079			0.00- 30.00	32.83	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	514349	10.0000	10.030	80.00- 120.00	100.00	
16.290	16.290	(0.979)	100	220271			0.00- 30.00	42.83	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	911275			0.00-	30.00	177.17

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	841816	10.0000	10.670	80.00-	120.00	100.00
17.059	17.059	(1.025)	95	802080			0.00-	30.00	95.28
17.059	17.059	(1.025)	97	518831			0.00-	30.00	61.63

69 Methylcyclohexane CAS #: 108-87-2									
17.306	17.306	(1.040)	83	1123790	10.0000	10.785	80.00-	120.00	100.00
17.334	17.334	(1.041)	98	544245			0.00-	30.00	48.43
17.306	17.306	(1.040)	55	788481			0.00-	30.00	70.16

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	658712	10.0000	10.364	80.00-	120.00	100.00
17.526	17.526	(1.053)	62	465482			0.00-	30.00	70.67
17.526	17.526	(1.053)	41	325742			19.45-	79.45	49.45

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	431683	10.0000	10.402	80.00-	120.00	100.00
17.636	17.636	(1.059)	58	269606			0.00-	30.00	62.45
17.636	17.636	(1.059)	57	86644			0.00-	30.00	20.07

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	1218802	10.0000	10.552	80.00-	120.00	100.00
17.938	17.938	(1.078)	85	782655			0.00-	30.00	64.22

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	987119	10.0000	10.575	80.00-	120.00	100.00
18.786	18.786	(1.128)	77	312377			0.00-	30.00	31.65
18.786	18.786	(1.128)	39	403297			10.86-	70.86	40.86

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.987	18.987	(1.141)	43	1183116	10.0000	9.816	80.00-	120.00	100.00
18.987	18.987	(1.141)	58	501364			0.00-	30.00	42.38
18.987	18.987	(1.141)	85	243997			0.00-	30.00	20.62

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	2082646	10.0000	10.205	80.00-	120.00	100.00
19.346	19.346	(1.162)	92	1249267			0.00-	30.00	59.98

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.749	(0.920)	75	1009786	10.0000	10.561	80.00-	120.00	100.00
19.749	19.749	(0.920)	77	321025			0.00-	30.00	31.79
19.749	19.749	(0.920)	39	400504			9.66-	69.66	39.66

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	753211	10.0000	10.667	80.00- 120.00	100.00	
20.036	20.036	(0.934)	99	470626			0.00- 30.00	62.48	
20.036	20.036	(0.934)	83	648896			56.15- 116.15	86.15	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	1043050	10.0000	10.769	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	784235			0.00- 30.00	75.19	
20.199	20.199	(0.941)	131	758160			0.00- 30.00	72.69	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	683101	10.0000	10.577	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1173997			0.00- 30.00	171.86	
20.329	20.329	(0.947)	100	164054			0.00- 30.00	24.02	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1242714	10.0000	11.638	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	955652			0.00- 30.00	76.90	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	1162335	10.0000	10.673	80.00- 120.00	100.00	
20.881	20.881	(0.973)	109	1098499			0.00- 30.00	94.51	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1707549	10.0000	10.614	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	546198			0.00- 30.00	31.99	
21.504	21.504	(1.002)	77	988762			27.91- 87.91	57.91	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	825372	10.0000	10.687	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2541810			0.00- 30.00	307.96	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	879466	10.0000	10.828	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1691978			0.00- 30.00	192.39	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	848554	10.0000	10.958	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1720955			0.00- 30.00	202.81	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1310005	10.0000	10.709	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	635492			0.00- 30.00	48.51	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1143430	10.0000	11.916	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	590289			0.00- 30.00	51.62	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2503583	10.0000	10.943	80.00- 120.00	100.00	
22.676	22.676	(1.057)	120	670477			0.00- 30.00	26.78	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1635714	10.0000	10.948	80.00- 120.00	100.00	
23.063	23.063	(1.075)	85	1054871			0.00- 30.00	64.49	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2417273	10.0000	11.217	80.00- 120.00	100.00	
23.140	23.140	(1.078)	120	570692			0.00- 30.00	23.61	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1859790	10.0000	11.241	80.00- 120.00	100.00	
23.269	23.269	(1.085)	120	563190			0.00- 30.00	30.28	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1442656	10.0000	11.093	80.00- 120.00	100.00	
23.321	23.321	(1.087)	120	715136			0.00- 30.00	49.57	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	1034638	10.0000	11.146	80.00- 120.00	100.00	
23.759	23.759	(1.107)	120	487865			0.00- 30.00	47.15	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1225926	10.0000	10.786	80.00- 120.00	100.00	
24.120	24.120	(1.124)	148	780510			0.00- 30.00	63.67	
24.120	24.120	(1.124)	111	481223			0.00- 30.00	39.25	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	1086310	10.0000	10.387	80.00- 120.00	100.00	
24.223	24.223	(1.129)	148	689913			0.00- 30.00	63.51	
24.223	24.223	(1.129)	111	406896			0.00- 30.00	37.46	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1913288	10.0000	12.094	80.00- 120.00	100.00	
24.352	24.352	(1.135)	126	414679			0.00- 30.00	21.67	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	1053223	10.0000	10.922	80.00- 120.00	100.00	
24.636	24.636	(1.148)	148	672347			33.84- 93.84	63.84	
24.636	24.636	(1.148)	111	436293			11.42- 71.42	41.42	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
126 1,2,4-Trichlorobenzene					CAS #: 120-82-1				
26.338	26.338	(1.228)	180	343756	10.0000	11.265	80.00- 120.00	100.00	
26.338	26.338	(1.228)	182	326699			0.00- 30.00	95.04	

128 Hexachlorobutadiene					CAS #: 87-68-3				
26.416	26.416	(1.231)	225	498267	10.0000	10.534	80.00- 120.00	100.00	
26.416	26.416	(1.231)	223	311767			0.00- 30.00	62.57	

129 Naphthalene					CAS #: 91-20-3				
26.648	26.648	(1.242)	128	594798	10.0000	11.240	80.00- 120.00	100.00	
26.648	26.648	(1.242)	127	73504			0.00- 30.00	12.36	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i
 Lab File ID: a092718.d
 Lab Smp Id: CCV
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: ea
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
 Misc Info: 10ppbv (50ppbv)

Calibration Date: 27-SEP-2010
 Calibration Time: 19:59
 Client Smp ID: CCV
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	354424	0.00
66 1,4-Difluorobenze	1467275	880365	2054185	1467275	0.00
88 Chlorobenzene-d5	1353012	811807	1894217	1353012	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 27-SEP-2010 19:59

Client ID: CCV

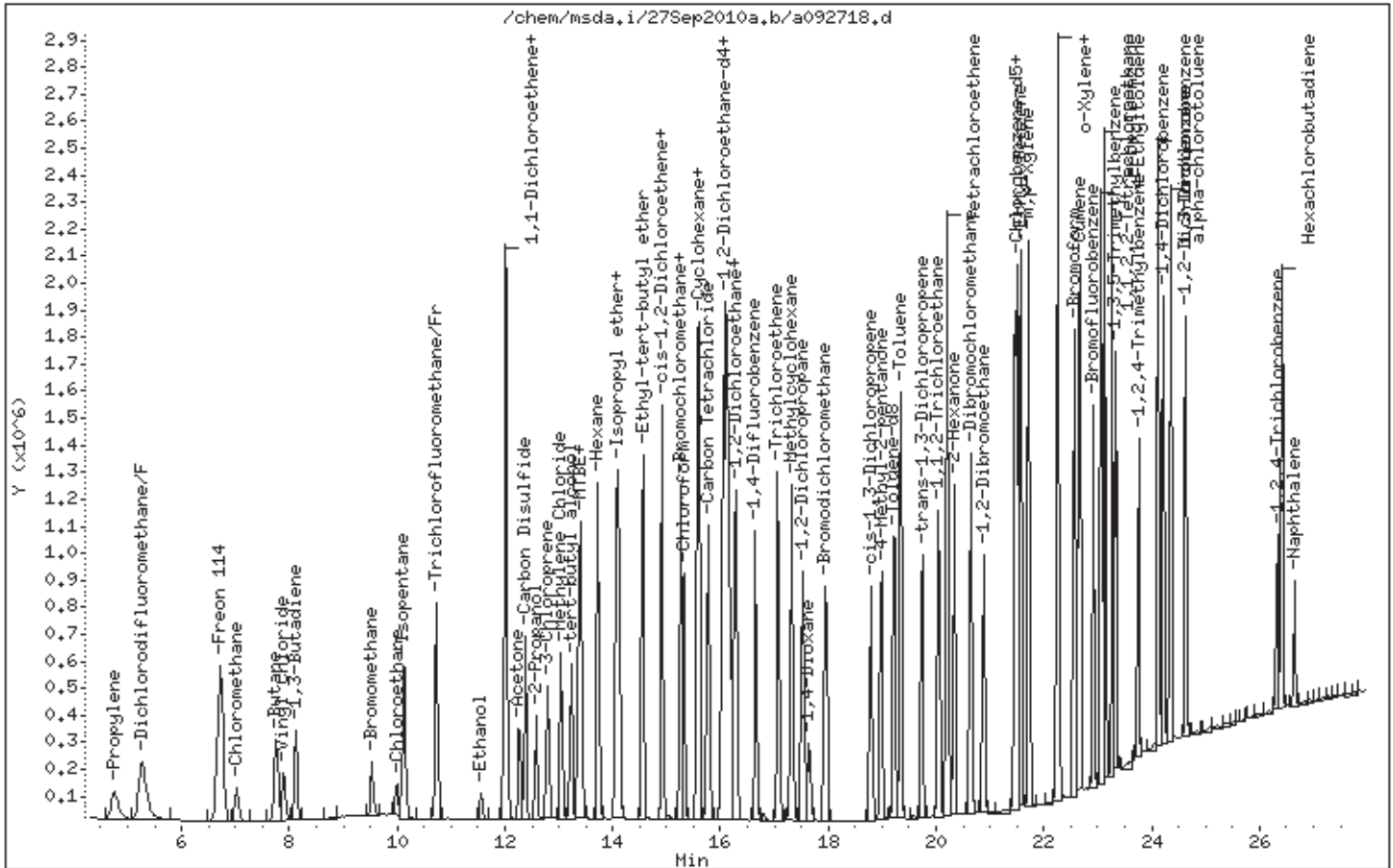
Instrument: msda.i

Sample Info: 50mL #1936-327

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: CCV

Lab ID#: 1009208-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092718sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 07:59 PM

Compound	%Recovery
Vinyl Chloride	100
1,1-Dichloroethene	104
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	108
1,1,1-Trichloroethane	107
Benzene	100
1,2-Dichloroethane	100
Trichloroethene	98
Toluene	99
1,1,2-Trichloroethane	100
Tetrachloroethene	94
Ethyl Benzene	107
m,p-Xylene	108
o-Xylene	112
1,1,2,2-Tetrachloroethane	102
trans-1,2-Dichloroethene	110
Methyl tert-butyl ether	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 27-SEP-2010 19:59
 Lab File ID: a092718sim.d Init. Cal. Date(s): 15-SEP-2010 15-SEP-2010
 Analysis Type: AIR Init. Cal. Times: 10:13 17:24
 Lab Sample ID: CCV Quant Type: ISTD
 Method: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m

COMPOUND	RRF / AMOUNT		MIN		MAX		CURVE TYPE
	RRF	AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT	
\$ 37 1,2-Dichloroethane-d4	1.48014	1.42033	0.010	4.04089	30.00000	Averaged	
\$ 47 Toluene-d8	0.89135	0.89895	0.010	-0.85295	30.00000	Averaged	
\$ 66 Bromofluorobenzene	0.50401	0.53164	0.010	-5.48268	30.00000	Averaged	
1 Dichlorodifluoromethane/Fr1	4.14999	4.19441	0.010	-1.07043	30.00000	Averaged	
3 Freon 114	2.64850	2.74542	0.010	-3.65939	30.00000	Averaged	
4 Chloromethane	1.28546	1.22723	0.010	4.53037	30.00000	Averaged	
5 Vinyl Chloride	1.54606	1.53858	0.010	0.48360	30.00000	Averaged	
9 Chloroethane	0.63312	0.59346	0.010	6.26400	30.00000	Averaged	
12 1,1-Dichloroethene	0.95267	0.98716	0.010	-3.62050	30.00000	Averaged	
22 trans-1,2-Dichloroethene	1.04193	1.14413	0.010	-9.80844	30.00000	Averaged	
21 MTBE	4.07258	4.58491	0.010	-12.58015	30.00000	Averaged	
25 1,1-Dichloroethane	2.85244	2.96183	0.010	-3.83485	30.00000	Averaged	
29 cis-1,2-Dichloroethene	1.04550	1.13436	0.010	-8.49870	30.00000	Averaged	
32 Chloroform	3.41794	3.41372	0.010	0.12360	30.00000	Averaged	
34 1,1,1-Trichloroethane	3.33278	3.57619	0.010	-7.30337	30.00000	Averaged	
35 Carbon Tetrachloride	3.10892	3.11177	0.010	-0.09156	30.00000	Averaged	
36 Benzene	1.27608	1.28166	0.010	-0.43717	30.00000	Averaged	
38 1,2-Dichloroethane	0.52269	0.52100	0.010	0.32413	30.00000	Averaged	
41 Trichloroethene	0.57626	0.56262	0.010	2.36776	30.00000	Averaged	
48 Toluene	1.39704	1.38826	0.010	0.62845	30.00000	Averaged	
50 1,1,2-Trichloroethane	0.57318	0.57313	0.010	0.00953	30.00000	Averaged	
51 Tetrachloroethene	0.81923	0.77486	0.010	5.41550	30.00000	Averaged	
55 1,2-Dibromoethane	0.82526	0.87678	0.010	-6.24300	30.00000	Averaged	
58 Ethyl Benzene	0.53415	0.57378	0.010	-7.41886	30.00000	Averaged	
59 m,p-Xylene	0.56684	0.61277	0.010	-8.10277	30.00000	Averaged	
61 o-Xylene	0.52506	0.58655	0.010	-11.71169	30.00000	Averaged	
67 1,1,2,2-Tetrachloroethane	1.19642	1.21992	0.010	-1.96413	30.00000	Averaged	

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092718sim.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-SEP-2010 19:59
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-327
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 09:09 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	361425	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	280172				0.00- 30.00	77.52
15.269	15.269	(1.000)	49	524020				0.00- 30.00	144.99

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1535311	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	245882				0.00- 46.02	16.02

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.470	21.470	(1.000)	117	1413711	10.0000			80.00- 120.00	100.00
21.470	21.470	(1.000)	82	757505				0.00- 30.00	53.58

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.084	16.084	(1.053)	65	513341	10.0000	9.596		80.00- 120.00	100.00
16.084	16.084	(1.053)	67	306933				0.00- 30.00	59.79

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1380166	10.0000	10.085		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	159296				0.00- 41.54	11.54

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	916416			36.40- 96.40	66.40	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	751591	10.0000	10.548	80.00- 120.00	100.00	
22.922	22.922	(1.068)	95	972036			99.33- 159.33	129.33	
22.922	22.922	(1.068)	176	726576			66.67- 126.67	96.67	

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.265	5.265	(0.345)	85	1515966	10.0000	10.107	80.00- 120.00	100.00	
5.265	5.265	(0.345)	87	490538			0.00- 30.00	32.36	

3 Freon 114 CAS #: 76-14-2									
6.736	6.736	(0.441)	135	992263	10.0000	10.366	80.00- 120.00	100.00	
6.736	6.736	(0.441)	137	316919			0.00- 30.00	31.94	

4 Chloromethane CAS #: 74-87-3									
7.025	7.025	(0.460)	50	443551	10.0000	9.547	80.00- 120.00	100.00	
7.025	7.025	(0.460)	52	144415			0.00- 30.00	32.56	

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	556083	10.0000	9.952	80.00- 120.00	100.00	
7.897	7.897	(0.517)	64	177433			1.91- 61.91	31.91	

9 Chloroethane CAS #: 75-00-3									
9.991	9.991	(0.654)	64	214493	10.0000	9.374	80.00- 120.00	100.00	
9.991	9.991	(0.654)	66	71882			0.00- 30.00	33.51	

12 1,1-Dichloroethene CAS #: 75-35-4									
12.043	12.043	(0.789)	98	356784	10.0000	10.362	80.00- 120.00	100.00	
12.023	12.023	(0.787)	61	841268			0.00- 30.00	235.79	
12.023	12.023	(0.787)	96	557105			0.00- 30.00	156.15	

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	413518	10.0000	10.981	80.00- 120.00	100.00	
13.408	13.408	(0.878)	61	847796			0.00- 30.00	205.02	
13.435	13.435	(0.880)	96	646713			0.00- 30.00	156.39	

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	1657102	10.0000	11.258	80.00- 120.00	100.00	
13.380	13.380	(0.876)	57	346415			0.00- 30.00	20.90	
13.380	13.380	(0.876)	41	331051			0.00- 30.00	19.98	

25 1,1-Dichloroethane CAS #: 75-34-3									
14.122	14.122	(0.925)	63	1070478	10.0000	10.383	80.00- 120.00	100.00	
14.122	14.122	(0.925)	65	344813			2.21- 62.21	32.21	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	409985	10.0000	10.850	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	772868			0.00- 30.00	188.51	
14.928	14.928	(0.978)	96	640525			0.00- 30.00	156.23	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1233803	10.0000	9.988	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	803964			35.16- 95.16	65.16	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	1292523	10.0000	10.730	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	834309			34.55- 94.55	64.55	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.793	15.793	(1.034)	119	1124670	10.0000	10.009	80.00- 120.00	100.00	
15.762	15.762	(1.032)	117	1158778			73.03- 133.03	103.03	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	1967749	10.0000	10.044	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	457915			0.00- 30.00	23.27	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	799896	10.0000	9.968	80.00- 120.00	100.00	
16.194	16.194	(0.972)	64	256992			0.00- 30.00	32.13	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	863797	10.0000	9.763	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	838786			67.10- 127.10	97.10	
17.073	17.073	(1.025)	97	542651			32.82- 92.82	62.82	

48 Toluene CAS #: 108-88-3									
19.337	19.337	(1.161)	91	2131407	10.0000	9.937	80.00- 120.00	100.00	
19.337	19.337	(1.161)	92	1277528			29.94- 89.94	59.94	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	810238	10.0000	9.999	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	509537			32.89- 92.89	62.89	
20.050	20.050	(0.934)	83	688113			54.93- 114.93	84.93	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	1095430	10.0000	9.458	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	782731			41.45- 101.45	71.45	
20.212	20.212	(0.941)	131	755841			39.00- 99.00	69.00	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	1239520	10.0000	10.624	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	1167690			64.21- 124.21	94.21	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	811160	10.0000	10.742	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	2615015			0.00- 30.00	322.38	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	866281	10.0000	10.810	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	1741296			0.00- 30.00	201.01	

61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	829210	10.0000	11.171	80.00- 120.00	100.00	
22.241	22.241	(1.036)	91	1764226			182.76- 242.76	212.76	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.076	23.076	(1.075)	83	1724619	10.0000	10.196	80.00- 120.00	100.00	
23.076	23.076	(1.075)	85	1115534			34.68- 94.68	64.68	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 27-SEP-2010
Lab File ID: a092718sim.d	Calibration Time: 19:59
Lab Smp Id: CCV	Client Smp ID: CCV
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m	
Misc Info: 10ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	361425	216855	505995	361425	0.00
40 1,4-Difluorobenze	1535311	921187	2149435	1535311	0.00
56 Chlorobenzene-d5	1413711	848227	1979195	1413711	0.00

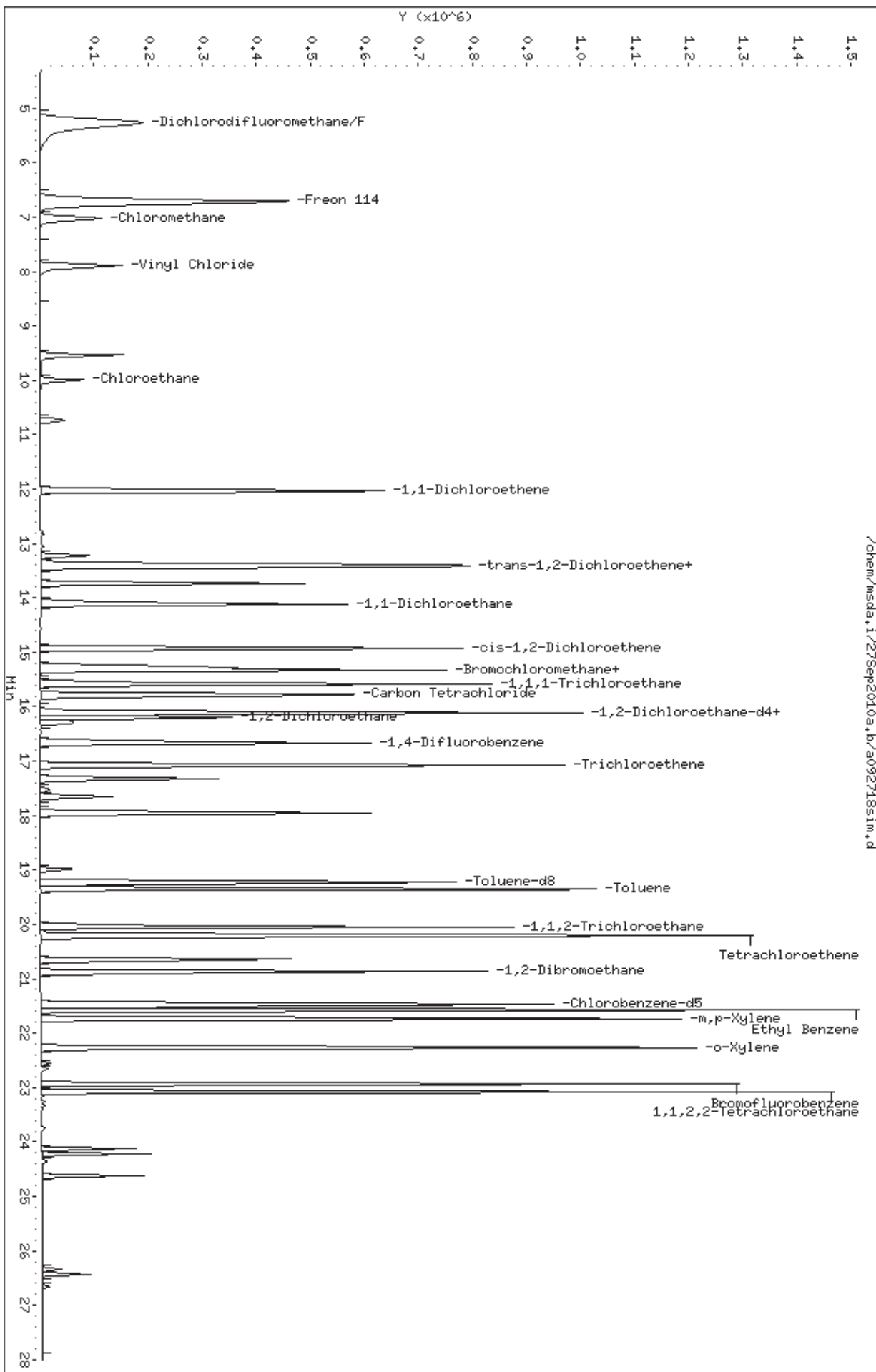
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
31 Bromochloromethan	15.27	14.94	15.60	15.27	0.00
40 1,4-Difluorobenze	16.66	16.33	16.99	16.66	0.00
56 Chlorobenzene-d5	21.47	21.14	21.80	21.47	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/27Sep2010a.k/s092718s.im.d
Date: 27-SEP-2010 19:59
Client ID: CCV
Sample Info: 50mL #1936-327

Column phase: RTX-624

Instrument: msda.i
Operator: ea
Column diameter: 0.53



Client Sample ID: CCV

Lab ID#: 1009208-12C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 07:58 PM

Compound	%Recovery
Chloromethane	87
1,3-Butadiene	90
Bromomethane	104
Chloroethane	104
Freon 11	96
Ethanol	95
Freon 113	99
Acetone	107
2-Propanol	105
Carbon Disulfide	107
3-Chloropropene	97
Methylene Chloride	100
Hexane	93
2-Butanone (Methyl Ethyl Ketone)	94
Tetrahydrofuran	95
Chloroform	96
Cyclohexane	96
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	88
Heptane	96
1,2-Dichloropropane	97
1,4-Dioxane	98
Bromodichloromethane	98
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	90
trans-1,3-Dichloropropene	99
2-Hexanone	98
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	100
Chlorobenzene	101
Styrene	101
Bromoform	113
Cumene	105
Propylbenzene	108
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	99

Client Sample ID: CCV

Lab ID#: 1009208-12C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 07:58 PM

Compound	%Recovery
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 28-SEP-2010 19:58
 Lab File ID: a092802.d Init. Cal. Date(s): 15-SEP-2010 20-SEP-2010
 Analysis Type: AIR Init. Cal. Times: 12:55 20:09
 Lab Sample ID: CCV Quant Type: ISTD
 Method: /chem/msda.i/28Sep2010.b/a1010915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 61 1,2-Dichloroethane-d4	1.45351	1.30737	0.010	10.05428	30.00000	Averaged	
\$ 80 Toluene-d8	1.01850	0.98229	0.010	3.55551	30.00000	Averaged	
\$ 100 Bromofluorobenzene	0.51095	0.52242	0.010	-2.24481	30.00000	Averaged	
2 Propylene	0.97695	0.94215	0.010	3.56187	30.00000	Averaged	
4 Dichlorodifluoromethane/Fr1	4.01701	3.70738	0.010	7.70800	30.00000	Averaged	
6 Freon 114	2.65885	2.60567	0.010	1.99981	30.00000	Averaged	
7 Chloromethane	1.25331	1.09661	0.010	12.50316	30.00000	Averaged	
9 Butane	0.29250	0.28783	0.010	1.59773	30.00000	Averaged	
10 Vinyl Chloride	1.46610	1.39074	0.010	5.14019	30.00000	Averaged	
11 1,3-Butadiene	1.01513	0.91768	0.010	9.60013	30.00000	Averaged	
12 Bromomethane	0.79098	0.82344	0.010	-4.10324	30.00000	Averaged	
13 Chloroethane	0.65872	0.68480	0.010	-3.95858	30.00000	Averaged	
14 Isopentane	1.08873	1.07499	0.010	1.26178	30.00000	Averaged	
16 Trichlorofluoromethane/Fr11	3.73599	3.57727	0.010	4.24849	30.00000	Averaged	
20 Ethanol	0.44804	0.42436	0.010	5.28374	30.00000	Averaged	
23 1,1-Dichloroethene	0.87111	0.89947	0.010	-3.25605	30.00000	Averaged	
22 Freon 113	2.34694	2.32673	0.010	0.86114	30.00000	Averaged	
24 Acetone	0.59423	0.63815	0.010	-7.39165	30.00000	Averaged	
26 Carbon Disulfide	3.92445	4.21171	0.010	-7.31981	30.00000	Averaged	
28 3-Chloroprene	0.49420	0.48094	0.010	2.68233	30.00000	Averaged	
27 2-Propanol	2.24354	2.36303	0.010	-5.32569	30.00000	Averaged	
33 Methylene Chloride	1.31682	1.31943	0.010	-0.19801	30.00000	Averaged	
34 tert-butyl alcohol	2.60502	2.51839	0.010	3.32573	30.00000	Averaged	
35 MTBE	4.34852	4.13020	0.010	5.02071	30.00000	Averaged	
36 trans-1,2-Dichloroethene	1.01002	0.98948	0.010	2.03371	30.00000	Averaged	
40 Hexane	2.42803	2.26071	0.010	6.89115	30.00000	Averaged	
41 Isopropyl ether	4.74552	4.48985	0.010	5.38748	30.00000	Averaged	
42 1,1-Dichloroethane	2.81809	2.64685	0.010	6.07623	30.00000	Averaged	
44 Vinyl Acetate	0.38854	0.40183	0.010	-3.42031	30.00000	Averaged	
46 Ethyl-tert-butyl ether	4.53335	4.45484	0.010	1.73187	30.00000	Averaged	
47 cis-1,2-Dichloroethene	1.02373	0.99928	0.010	2.38858	30.00000	Averaged	
48 2-Butanone	0.81982	0.76714	0.010	6.42586	30.00000	Averaged	
51 Tetrahydrofuran	1.57038	1.48893	0.010	5.18668	30.00000	Averaged	
53 Chloroform	3.18990	3.04861	0.010	4.42922	30.00000	Averaged	
55 Cyclohexane	2.30265	2.20484	0.010	4.24791	30.00000	Averaged	
56 1,1,1-Trichloroethane	3.25772	3.10059	0.010	4.82327	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 28-SEP-2010 19:58
 Lab File ID: a092802.d Init. Cal. Date(s): 15-SEP-2010 20-SEP-2010
 Analysis Type: AIR Init. Cal. Times: 12:55 20:09
 Lab Sample ID: CCV Quant Type: ISTD
 Method: /chem/msda.i/28Sep2010.b/a1010915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 Carbon Tetrachloride	3.31934	2.76998	0.010	16.55029	30.00000	Averaged
59 2,2,4-Trimethylpentane	2.63368	2.31280	0.010	12.18376	30.00000	Averaged
60 Benzene	1.24712	1.20159	0.010	3.65075	30.00000	Averaged
62 tert-amyl methyl ether	0.25699	0.27878	0.010	-8.48149	30.00000	Averaged
63 1,2-Dichloroethane	0.53107	0.47928	0.010	9.75304	30.00000	Averaged
64 Heptane	0.34949	0.33747	0.010	3.43740	30.00000	Averaged
67 Trichloroethene	0.53768	0.53379	0.010	0.72288	30.00000	Averaged
69 Methylcyclohexane	0.71015	0.74368	0.010	-4.72173	30.00000	Averaged
72 1,2-Dichloropropane	0.43316	0.42005	0.010	3.02574	30.00000	Averaged
74 1,4-Dioxane	0.28283	0.27792	0.010	1.73798	30.00000	Averaged
76 Bromodichloromethane	0.78723	0.77234	0.010	1.89143	30.00000	Averaged
77 cis-1,3-Dichloropropene	0.63615	0.63902	0.010	-0.45126	30.00000	Averaged
78 4-Methyl-2-pentanone	0.82143	0.73814	0.010	10.14017	30.00000	Averaged
81 Toluene	1.39086	1.34238	0.010	3.48561	30.00000	Averaged
82 trans-1,3-Dichloropropene	0.70669	0.69875	0.010	1.12395	30.00000	Averaged
83 1,1,2-Trichloroethane	0.52189	0.51126	0.010	2.03745	30.00000	Averaged
84 Tetrachloroethene	0.71585	0.71245	0.010	0.47471	30.00000	Averaged
85 2-Hexanone	0.47732	0.46776	0.010	2.00274	30.00000	Averaged
86 Dibromochloromethane	0.78921	0.85381	0.010	-8.18559	30.00000	Averaged
87 1,2-Dibromoethane	0.80488	0.80782	0.010	-0.36525	30.00000	Averaged
89 Chlorobenzene	1.18900	1.19648	0.010	-0.62862	30.00000	Averaged
91 Ethyl Benzene	0.57082	0.58419	0.010	-2.34199	30.00000	Averaged
93 m,p-Xylene	0.60032	0.62725	0.010	-4.48612	30.00000	Averaged
94 o-Xylene	0.57233	0.59424	0.010	-3.82899	30.00000	Averaged
95 Styrene	0.90410	0.90970	0.010	-0.61881	30.00000	Averaged
97 Bromoform	0.70920	0.80378	0.010	-13.33591	30.00000	Averaged
98 Cumene	1.69091	1.78239	0.010	-5.41039	30.00000	Averaged
103 1,1,2,2-Tetrachloroethane	1.10424	1.15162	0.010	-4.29122	30.00000	Averaged
104 Propylbenzene	1.59268	1.71510	0.010	-7.68634	30.00000	Averaged
107 4-Ethyltoluene	1.22276	1.31890	0.010	-7.86255	30.00000	Averaged
109 1,3,5-Trimethylbenzene	0.96122	0.99034	0.010	-3.03000	30.00000	Averaged
112 1,2,4-Trimethylbenzene	0.68604	0.71634	0.010	-4.41581	30.00000	Averaged
115 1,3-Dichlorobenzene	0.84006	0.83539	0.010	0.55531	30.00000	Averaged
117 1,4-Dichlorobenzene	0.77294	0.74611	0.010	3.47123	30.00000	Averaged
118 alpha-chlorotoluene	1.16921	1.32585	0.010	-13.39691	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 28-SEP-2010 19:58
Lab File ID: a092802.d Init. Cal. Date(s): 15-SEP-2010 20-SEP-2010
Analysis Type: AIR Init. Cal. Times: 12:55 20:09
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/28Sep2010.b/a1010915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
121 1,2-Dichlorobenzene	0.71269	0.70760	0.010	0.71457	30.00000	Averaged
126 1,2,4-Trichlorobenzene	0.22554	0.22173	0.010	1.68819	30.00000	Averaged
128 Hexachlorobutadiene	0.34959	0.33902	0.010	3.02552	30.00000	Averaged
129 Naphthalene	0.39109	0.37591	0.010	3.88107	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092802.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 28-SEP-2010 19:58
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-327
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m
Meth Date : 28-Sep-2010 20:40 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 52	Bromochloromethane						CAS #:	74-97-5	
15.255	15.255	(1.000)	130	351504	10.0000			80.00- 120.00	100.00
15.255	15.255	(1.000)	128	274837				48.35- 108.35	78.19
15.255	15.255	(1.000)	49	481456				89.31- 149.31	136.97

* 66	1,4-Difluorobenzene						CAS #:	540-36-3	
16.647	16.647	(1.000)	114	1417041	10.0000			80.00- 120.00	100.00
16.647	16.647	(1.000)	88	225829				0.00- 46.24	15.94

* 88	Chlorobenzene-d5						CAS #:	3114-55-4	
21.456	21.456	(1.000)	117	1320371	10.0000			80.00- 120.00	100.00
21.456	21.456	(1.000)	82	728371				25.95- 85.95	55.16

\$ 61	1,2-Dichloroethane-d4						CAS #:	17060-07-0	
16.098	16.098	(1.055)	65	459545	10.0000	8.994		80.00- 120.00	100.00
16.098	16.098	(1.055)	67	268275				0.00- 30.00	58.38

\$ 80	Toluene-d8						CAS #:	2037-26-5	
19.211	19.211	(1.154)	98	1391942	10.0000	9.644		80.00- 120.00	100.00
19.211	19.211	(1.154)	70	153056				0.00- 30.00	11.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.211	19.211	(1.154)	100	944619			37.86-	97.86	67.86

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	689783	10.0000	10.224	80.00-	120.00	100.00
22.908	22.908	(1.068)	95	889094			98.89-	158.89	128.89
22.934	22.934	(1.069)	176	670120			67.15-	127.15	97.15

2 Propylene CAS #: 115-07-1									
4.770	4.770	(0.313)	41	331169	10.0000	9.644	80.00-	120.00	100.00
4.770	4.770	(0.313)	42	218733			0.00-	30.00	66.05
4.770	4.770	(0.313)	39	236770			0.00-	30.00	71.50

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.276	5.276	(0.346)	85	1303160	10.0000	9.229	80.00-	120.00	100.00
5.276	5.276	(0.346)	87	424998			2.61-	62.61	32.61

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	915905	10.0000	9.800	80.00-	120.00	100.00
6.746	6.746	(0.442)	137	290946			0.00-	30.00	31.77

7 Chloromethane CAS #: 74-87-3									
7.035	7.035	(0.461)	50	385463	10.0000	8.750	80.00-	120.00	100.00
7.035	7.035	(0.461)	52	128344			0.00-	30.00	33.30

9 Butane CAS #: 106-97-8									
7.761	7.761	(0.509)	58	101172	10.0000	9.840	80.00-	120.00	100.00
7.761	7.761	(0.509)	43	646048			0.00-	30.00	638.56

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	488851	10.0000	9.486	80.00-	120.00	100.00
7.883	7.883	(0.517)	64	157462			2.21-	62.21	32.21

11 1,3-Butadiene CAS #: 106-99-0									
8.126	8.126	(0.533)	54	322568	10.0000	9.040	80.00-	120.00	100.00
8.126	8.126	(0.533)	39	304688			0.00-	30.00	94.46

12 Bromomethane CAS #: 74-83-9									
9.542	9.542	(0.626)	94	289441	10.0000	10.410	80.00-	120.00	100.00
9.542	9.542	(0.626)	96	269077			62.96-	122.96	92.96

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	240710	10.0000	10.396	80.00-	120.00	100.00
9.998	9.998	(0.655)	66	80709			0.00-	30.00	33.53

14 Isopentane CAS #: 78-78-4									
10.143	10.143	(0.665)	57	377865	10.0000	9.874	80.00-	120.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
14 Isopentane (continued)									
10.143	10.143	(0.665)	43	521978			0.00- 30.00	138.14	
10.143	10.143	(0.665)	42	459227			0.00- 30.00	121.53	

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	1257424	10.0000	9.575	80.00- 120.00	100.00	
10.724	10.724	(0.703)	103	819118			35.14- 95.14	65.14	

20 Ethanol CAS #: 64-17-5									
11.532	11.532	(0.756)	45	149165	10.0000	9.472	80.00- 120.00	100.00	
11.532	11.532	(0.756)	43	30162			0.00- 30.00	20.22	
11.532	11.532	(0.756)	46	61910			0.00- 30.00	41.50	

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	316169	10.0000	10.326	80.00- 120.00	100.00	
12.030	12.030	(0.789)	61	740273			0.00- 30.00	234.14	
12.030	12.030	(0.789)	96	491859			0.00- 30.00	155.57	

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	817855	10.0000	9.914	80.00- 120.00	100.00	
12.009	12.009	(0.787)	153	528907			34.67- 94.67	64.67	
12.009	12.009	(0.787)	101	1069139			0.00- 30.00	130.72	

24 Acetone CAS #: 67-64-1									
12.258	12.258	(0.804)	58	224312	10.0000	10.739	80.00- 120.00	100.00	
12.258	12.258	(0.804)	43	627950			0.00- 30.00	279.94	

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	1480433	10.0000	10.732	80.00- 120.00	100.00	

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	169052	10.0000	9.732	80.00- 120.00	100.00	
12.776	12.776	(0.837)	41	419843			0.00- 30.00	248.35	

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	830613	10.0000	10.532	80.00- 120.00	100.00	
12.569	12.569	(0.824)	43	129402			0.00- 30.00	15.58	
12.569	12.569	(0.824)	59	30807			0.00- 30.00	3.71	

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	463784	10.0000	10.020	80.00- 120.00	100.00	
13.037	13.037	(0.855)	49	518500			0.00- 30.00	111.80	
13.037	13.037	(0.855)	51	159285			0.00- 30.00	34.34	

34 tert-butyl alcohol CAS #: 75-65-0									
13.202	13.202	(0.865)	59	885223	10.0000	9.667	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
34 tert-butyl alcohol (continued)									
13.202	13.202	(0.865)	41	190276			0.00- 30.00	21.49	
13.202	13.202	(0.865)	57	90265			0.00- 30.00	10.20	

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	1451781	10.0000	9.498	80.00- 120.00	100.00	
13.367	13.367	(0.876)	57	304178			0.00- 30.00	20.95	
13.367	13.367	(0.876)	41	272496			0.00- 30.00	18.77	

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.421	13.421	(0.880)	98	347806	10.0000	9.797	80.00- 120.00	100.00	
13.421	13.421	(0.880)	61	717848			0.00- 30.00	206.39	
13.421	13.421	(0.880)	96	543112			0.00- 30.00	156.15	

40 Hexane CAS #: 110-54-3									
13.723	13.723	(0.900)	57	794648	10.0000	9.311	80.00- 120.00	100.00	
13.723	13.723	(0.900)	43	474916			0.00- 30.00	59.76	
13.723	13.723	(0.900)	86	160422			0.00- 30.00	20.19	

41 Isopropyl ether CAS #: 108-20-3									
14.053	14.053	(0.921)	45	1578201	10.0000	9.461	80.00- 120.00	100.00	
14.053	14.053	(0.921)	87	509556			0.00- 30.00	32.29	
14.053	14.053	(0.921)	59	194846			0.00- 30.00	12.35	

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	930380	10.0000	9.392	80.00- 120.00	100.00	
14.108	14.108	(0.925)	65	294273			0.00- 30.00	31.63	

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	141244	10.0000	10.342	80.00- 120.00	100.00	
14.108	14.108	(0.925)	42	154607			0.00- 30.00	109.46	
14.108	14.108	(0.925)	43	1868106			0.00- 30.00	1322.61	

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	1565894	10.0000	9.827	80.00- 120.00	100.00	
14.562	14.562	(0.955)	87	725448			0.00- 30.00	46.33	
14.541	14.541	(0.953)	41	261070			0.00- 30.00	16.67	

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	351251	10.0000	9.761	80.00- 120.00	100.00	
14.915	14.915	(0.978)	61	663291			0.00- 30.00	188.84	
14.915	14.915	(0.978)	96	555388			128.12- 188.12	158.12	

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	269653	10.0000	9.357	80.00- 120.00	100.00	
14.915	14.915	(0.978)	43	909022			0.00- 30.00	337.11	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
48 2-Butanone (continued)									
14.915	14.915	(0.978)	57	76330			0.00- 30.00	28.31	

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255	(1.000)	42	523365	10.0000	9.481	80.00- 120.00	100.00	
15.255	15.255	(1.000)	71	239946			0.00- 30.00	45.85	
15.255	15.255	(1.000)	72	263237			0.00- 30.00	50.30	

53 Chloroform CAS #: 67-66-3									
15.317	15.317	(1.004)	83	1071600	10.0000	9.557	80.00- 120.00	100.00	
15.317	15.317	(1.004)	85	693598			0.00- 30.00	64.73	

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594	(1.022)	84	775010	10.0000	9.575	80.00- 120.00	100.00	
15.594	15.594	(1.022)	56	805424			0.00- 30.00	103.92	
15.594	15.594	(1.022)	41	400378			0.00- 30.00	51.66	

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.563	15.563	(1.020)	97	1089869	10.0000	9.518	80.00- 120.00	100.00	
15.563	15.563	(1.020)	99	701034			0.00- 30.00	64.32	

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779	(1.034)	119	973659	10.0000	8.345	80.00- 120.00	100.00	
15.779	15.779	(1.034)	117	1007633			0.00- 30.00	103.49	

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043	(1.052)	56	812959	10.0000	8.782	80.00- 120.00	100.00	
16.043	16.043	(1.052)	57	2420298			0.00- 30.00	297.71	
16.043	16.043	(1.052)	41	583372			0.00- 30.00	71.76	

60 Benzene CAS #: 71-43-2									
16.098	16.098	(0.967)	78	1702700	10.0000	9.635	80.00- 120.00	100.00	
16.098	16.098	(0.967)	77	393215			0.00- 30.00	23.09	

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153	(0.970)	87	395049	10.0000	10.848	80.00- 120.00	100.00	
16.126	16.126	(0.969)	73	1623546			0.00- 30.00	410.97	
16.126	16.126	(0.969)	55	395355			0.00- 30.00	100.08	

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208	(0.974)	62	679153	10.0000	9.025	80.00- 120.00	100.00	
16.208	16.208	(0.974)	64	225697			0.00- 30.00	33.23	

64 Heptane CAS #: 142-82-5									
16.290	16.290	(0.979)	57	478213	10.0000	9.656	80.00- 120.00	100.00	
16.290	16.290	(0.979)	100	204091			0.00- 30.00	42.68	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
64 Heptane (continued)									
16.290	16.290	(0.979)	43	831204			0.00- 30.00	173.81	

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	756400	10.0000	9.928	80.00- 120.00	100.00	
17.059	17.059	(1.025)	95	726053			0.00- 30.00	95.99	
17.059	17.059	(1.025)	97	466725			0.00- 30.00	61.70	

69 Methylcyclohexane CAS #: 108-87-2									
17.306	17.306	(1.040)	83	1053825	10.0000	10.472	80.00- 120.00	100.00	
17.306	17.306	(1.040)	98	505442			0.00- 30.00	47.96	
17.306	17.306	(1.040)	55	729211			0.00- 30.00	69.20	

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	595231	10.0000	9.697	80.00- 120.00	100.00	
17.526	17.526	(1.053)	62	417924			0.00- 30.00	70.21	
17.526	17.526	(1.053)	41	287618			18.32- 78.32	48.32	

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	393823	10.0000	9.826	80.00- 120.00	100.00	
17.636	17.636	(1.059)	58	252187			0.00- 30.00	64.04	
17.636	17.636	(1.059)	57	76977			0.00- 30.00	19.55	

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	1094444	10.0000	9.811	80.00- 120.00	100.00	
17.938	17.938	(1.078)	85	705901			0.00- 30.00	64.50	

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.785	18.785	(1.128)	75	905514	10.0000	10.045	80.00- 120.00	100.00	
18.785	18.785	(1.128)	77	286028			0.00- 30.00	31.59	
18.785	18.785	(1.128)	39	365386			10.35- 70.35	40.35	

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.965	18.965	(1.139)	43	1045974	10.0000	8.986	80.00- 120.00	100.00	
18.965	18.965	(1.139)	58	453553			0.00- 30.00	43.36	
18.987	18.987	(1.141)	85	218162			0.00- 30.00	20.86	

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	1902209	10.0000	9.651	80.00- 120.00	100.00	
19.346	19.346	(1.162)	92	1140832			0.00- 30.00	59.97	

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.727	19.727	(0.919)	75	922611	10.0000	9.888	80.00- 120.00	100.00	
19.749	19.749	(0.920)	77	292814			0.00- 30.00	31.74	
19.727	19.727	(0.919)	39	356588			8.65- 68.65	38.65	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	675054	10.0000	9.796	80.00- 120.00	100.00	
20.036	20.036	(0.934)	99	422231			0.00- 30.00	62.55	
20.036	20.036	(0.934)	83	583449			56.43- 116.43	86.43	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	940697	10.0000	9.952	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	720895			0.00- 30.00	76.63	
20.199	20.199	(0.941)	131	695862			0.00- 30.00	73.97	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	617611	10.0000	9.800	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1007166			0.00- 30.00	163.07	
20.329	20.329	(0.947)	100	151048			0.00- 30.00	24.46	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1127351	10.0000	10.818	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	870663			0.00- 30.00	77.23	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	1066619	10.0000	10.036	80.00- 120.00	100.00	
20.881	20.881	(0.973)	109	1008075			0.00- 30.00	94.51	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1579792	10.0000	10.063	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	509315			0.00- 30.00	32.24	
21.504	21.504	(1.002)	77	914714			27.90- 87.90	57.90	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	771349	10.0000	10.234	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2346710			0.00- 30.00	304.23	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	828209	10.0000	10.449	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1572054			0.00- 30.00	189.81	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	784618	10.0000	10.383	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1589711			0.00- 30.00	202.61	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1201136	10.0000	10.062	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	585376			0.00- 30.00	48.74	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1061287	10.0000	11.334	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	547722			0.00- 30.00	51.61	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2353421	10.0000	10.541	80.00- 120.00	100.00	
22.676	22.676	(1.057)	120	638381			0.00- 30.00	27.13	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1520568	10.0000	10.429	80.00- 120.00	100.00	
23.063	23.063	(1.075)	85	977612			0.00- 30.00	64.29	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2264569	10.0000	10.769	80.00- 120.00	100.00	
23.140	23.140	(1.078)	120	539148			0.00- 30.00	23.81	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1741435	10.0000	10.786	80.00- 120.00	100.00	
23.269	23.269	(1.085)	120	525050			0.00- 30.00	30.15	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1307618	10.0000	10.303	80.00- 120.00	100.00	
23.321	23.321	(1.087)	120	643096			0.00- 30.00	49.18	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	945828	10.0000	10.442	80.00- 120.00	100.00	
23.759	23.759	(1.107)	120	444145			0.00- 30.00	46.96	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1103025	10.0000	9.944	80.00- 120.00	100.00	
24.120	24.120	(1.124)	148	707703			0.00- 30.00	64.16	
24.120	24.120	(1.124)	111	437188			0.00- 30.00	39.64	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	985143	10.0000	9.653	80.00- 120.00	100.00	
24.223	24.223	(1.129)	148	623263			0.00- 30.00	63.27	
24.223	24.223	(1.129)	111	370753			0.00- 30.00	37.63	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1750615	10.0000	11.340	80.00- 120.00	100.00	
24.352	24.352	(1.135)	126	371399			0.00- 30.00	21.22	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	934295	10.0000	9.928	80.00- 120.00	100.00	
24.636	24.636	(1.148)	148	599080			34.12- 94.12	64.12	
24.636	24.636	(1.148)	111	381441			10.83- 70.83	40.83	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	292766	10.0000	9.831	80.00- 120.00	100.00	
26.338	26.338	(1.228)	182	279890			0.00- 30.00	95.60	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	447628	10.0000	9.697	80.00- 120.00	100.00	
26.416	26.416	(1.231)	223	276091			0.00- 30.00	61.68	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	496346	10.0000	9.612	80.00- 120.00	100.00	
26.648	26.648	(1.242)	127	64790			0.00- 30.00	13.05	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092802.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 28-SEP-2010
Calibration Time: 19:58
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	351504	0.00
66 1,4-Difluorobenze	1417041	850225	1983857	1417041	0.00
88 Chlorobenzene-d5	1320371	792223	1848519	1320371	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 28-SEP-2010 19:58

Client ID: CCV

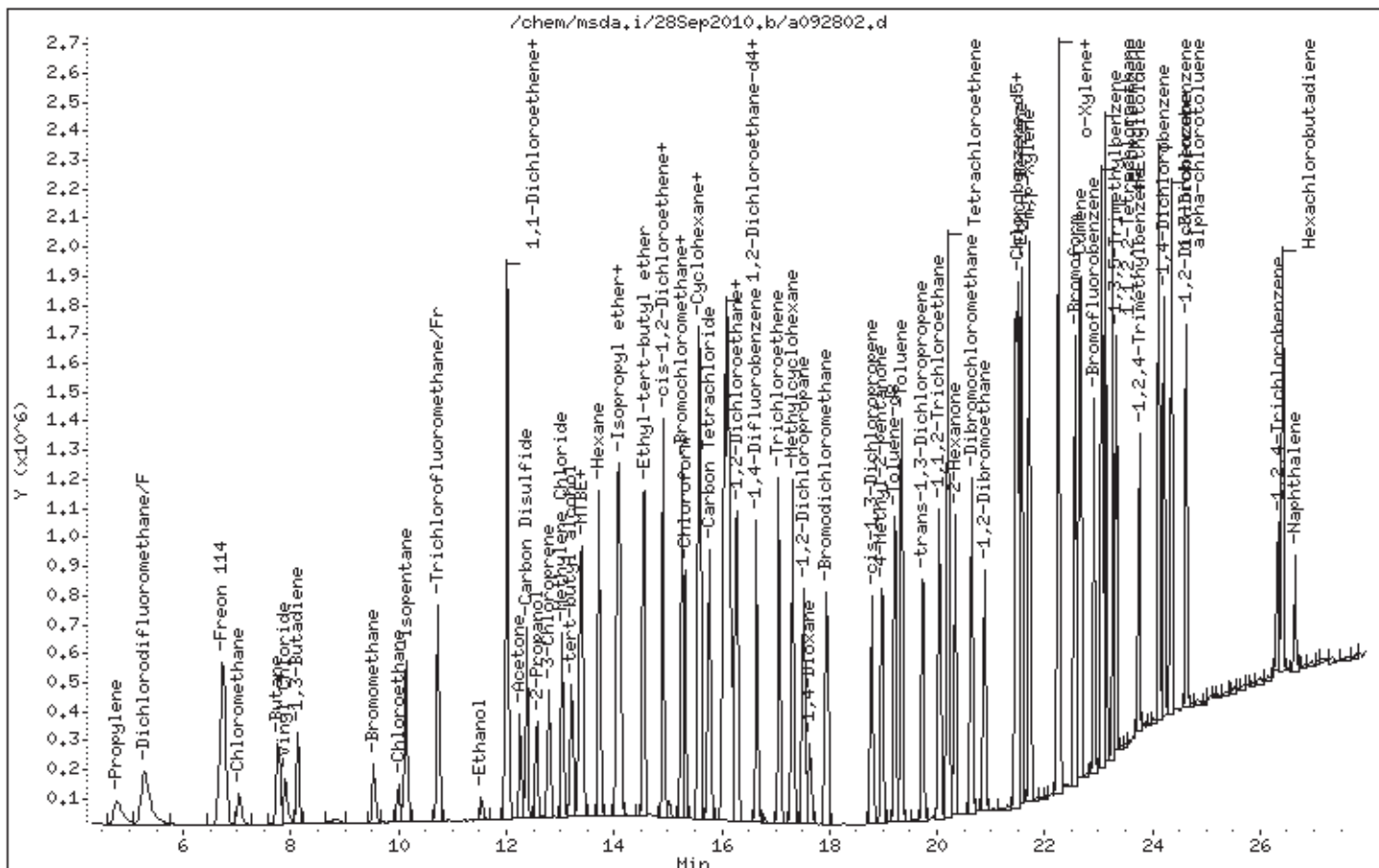
Instrument: msda.i

Sample Info: 50mL #1936-327

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: CCV

Lab ID#: 1009208-12D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092802sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 07:58 PM

Compound	%Recovery
Vinyl Chloride	94
1,1-Dichloroethene	97
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	99
1,1,1-Trichloroethane	97
Benzene	95
1,2-Dichloroethane	94
Trichloroethene	90
Toluene	95
1,1,2-Trichloroethane	91
Tetrachloroethene	89
Ethyl Benzene	104
m,p-Xylene	105
o-Xylene	108
1,1,2,2-Tetrachloroethane	97
trans-1,2-Dichloroethene	98
Methyl tert-butyl ether	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 28-SEP-2010 19:58
 Lab File ID: a092802sim.d Init. Cal. Date(s): 15-SEP-2010 15-SEP-2010
 Analysis Type: AIR Init. Cal. Times: 10:13 17:24
 Lab Sample ID: CCV Quant Type: ISTD
 Method: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m

COMPOUND	RRF / AMOUNT	RF10	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 37 1,2-Dichloroethane-d4	1.48014	1.35673	0.010	8.33771	30.00000	Averaged	
\$ 47 Toluene-d8	0.89135	0.90783	0.010	-1.84920	30.00000	Averaged	
\$ 66 Bromofluorobenzene	0.50401	0.52925	0.010	-5.00767	30.00000	Averaged	
1 Dichlorodifluoromethane/Fr1	4.14999	3.88804	0.010	6.31201	30.00000	Averaged	
3 Freon 114	2.64850	2.70454	0.010	-2.11581	30.00000	Averaged	
4 Chloromethane	1.28546	1.13951	0.010	11.35459	30.00000	Averaged	
5 Vinyl Chloride	1.54606	1.45269	0.010	6.03910	30.00000	Averaged	
9 Chloroethane	0.63312	0.71010	0.010	-12.15806	30.00000	Averaged	
12 1,1-Dichloroethene	0.95267	0.92382	0.010	3.02762	30.00000	Averaged	
22 trans-1,2-Dichloroethene	1.04193	1.02115	0.010	1.99500	30.00000	Averaged	
21 MTBE	4.07258	4.14257	0.010	-1.71857	30.00000	Averaged	
25 1,1-Dichloroethane	2.85244	2.74030	0.010	3.93128	30.00000	Averaged	
29 cis-1,2-Dichloroethene	1.04550	1.03673	0.010	0.83925	30.00000	Averaged	
32 Chloroform	3.41794	3.14246	0.010	8.05996	30.00000	Averaged	
34 1,1,1-Trichloroethane	3.33278	3.22283	0.010	3.29914	30.00000	Averaged	
35 Carbon Tetrachloride	3.10892	2.75905	0.010	11.25385	30.00000	Averaged	
36 Benzene	1.27608	1.20966	0.010	5.20494	30.00000	Averaged	
38 1,2-Dichloroethane	0.52269	0.48909	0.010	6.42961	30.00000	Averaged	
41 Trichloroethene	0.57626	0.52155	0.010	9.49533	30.00000	Averaged	
48 Toluene	1.39704	1.32930	0.010	4.84845	30.00000	Averaged	
50 1,1,2-Trichloroethane	0.57318	0.52191	0.010	8.94538	30.00000	Averaged	
51 Tetrachloroethene	0.81923	0.72632	0.010	11.34075	30.00000	Averaged	
55 1,2-Dibromoethane	0.82526	0.81150	0.010	1.66777	30.00000	Averaged	
58 Ethyl Benzene	0.53415	0.55813	0.010	-4.48892	30.00000	Averaged	
59 m,p-Xylene	0.56684	0.59674	0.010	-5.27519	30.00000	Averaged	
61 o-Xylene	0.52506	0.56926	0.010	-8.41832	30.00000	Averaged	
67 1,1,2,2-Tetrachloroethane	1.19642	1.15921	0.010	3.11029	30.00000	Averaged	

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092802sim.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 28-SEP-2010 19:58
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-327
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 20:42 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	359040	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	277996				0.00- 30.00	77.43
15.269	15.269	(1.000)	49	514113				0.00- 30.00	143.19

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1478522	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	239057				0.00- 46.17	16.17

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.469	21.469	(1.000)	117	1377474	10.0000			80.00- 120.00	100.00
21.469	21.469	(1.000)	82	740728				0.00- 30.00	53.77

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.084	16.084	(1.053)	65	487119	10.0000	9.166		80.00- 120.00	100.00
16.084	16.084	(1.053)	67	289319				0.00- 30.00	59.39

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1342245	10.0000	10.185		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	154595				0.00- 41.52	11.52

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	896693			36.81- 96.81	66.81	

\$ 66 Bromofluorobenzene									
								CAS #: 460-00-4	
22.922	22.922	(1.068)	174	729028	10.0000	10.501	80.00- 120.00	100.00	
22.922	22.922	(1.068)	95	953678			100.82- 160.82	130.82	
22.922	22.922	(1.068)	176	707075			66.99- 126.99	96.99	

1 Dichlorodifluoromethane/Fr12									
								CAS #: 75-71-8	
5.289	5.289	(0.346)	85	1395963	10.0000	9.369	80.00- 120.00	100.00	
5.289	5.289	(0.346)	87	451575			0.00- 30.00	32.35	

3 Freon 114									
								CAS #: 76-14-2	
6.736	6.736	(0.441)	135	971037	10.0000	10.212	80.00- 120.00	100.00	
6.736	6.736	(0.441)	137	309960			0.00- 30.00	31.92	

4 Chloromethane									
								CAS #: 74-87-3	
7.049	7.049	(0.462)	50	409128	10.0000	8.864	80.00- 120.00	100.00	
7.049	7.049	(0.462)	52	133368			0.00- 30.00	32.60	

5 Vinyl Chloride									
								CAS #: 75-01-4	
7.897	7.897	(0.517)	62	521575	10.0000	9.396	80.00- 120.00	100.00	
7.897	7.897	(0.517)	64	166144			1.85- 61.85	31.85	

9 Chloroethane									
								CAS #: 75-00-3	
10.012	10.012	(0.656)	64	254954	10.0000	11.216	80.00- 120.00	100.00	
10.012	10.012	(0.656)	66	83750			0.00- 30.00	32.85	

12 1,1-Dichloroethene									
								CAS #: 75-35-4	
12.023	12.023	(0.787)	98	331690	10.0000	9.697	80.00- 120.00	100.00	
12.023	12.023	(0.787)	61	790173			0.00- 30.00	238.23	
12.023	12.023	(0.787)	96	517143			0.00- 30.00	155.91	

22 trans-1,2-Dichloroethene									
								CAS #: 156-60-5	
13.435	13.435	(0.880)	98	366633	10.0000	9.800	80.00- 120.00	100.00	
13.408	13.408	(0.878)	61	761334			0.00- 30.00	207.66	
13.435	13.435	(0.880)	96	574879			0.00- 30.00	156.80	

21 MTBE									
								CAS #: 1634-04-4	
13.380	13.380	(0.876)	73	1487347	10.0000	10.172	80.00- 120.00	100.00	
13.380	13.380	(0.876)	57	309860			0.00- 30.00	20.83	
13.380	13.380	(0.876)	41	286158			0.00- 30.00	19.24	

25 1,1-Dichloroethane									
								CAS #: 75-34-3	
14.121	14.121	(0.925)	63	983878	10.0000	9.607	80.00- 120.00	100.00	
14.121	14.121	(0.925)	65	316737			2.19- 62.19	32.19	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	372227	10.0000	9.916	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	705382			0.00- 30.00	189.50	
14.928	14.928	(0.978)	96	590040			0.00- 30.00	158.52	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1128268	10.0000	9.194	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	735853			35.22- 95.22	65.22	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	1157124	10.0000	9.670	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	746609			34.52- 94.52	64.52	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.762	15.762	(1.032)	119	990608	10.0000	8.875	80.00- 120.00	100.00	
15.762	15.762	(1.032)	117	1022372			73.21- 133.21	103.21	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	1788514	10.0000	9.480	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	414285			0.00- 30.00	23.16	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	723125	10.0000	9.357	80.00- 120.00	100.00	
16.194	16.194	(0.972)	64	230578			0.00- 30.00	31.89	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	771118	10.0000	9.050	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	753288			67.69- 127.69	97.69	
17.073	17.073	(1.025)	97	486584			33.10- 93.10	63.10	

48 Toluene CAS #: 108-88-3									
19.337	19.337	(1.161)	91	1965403	10.0000	9.515	80.00- 120.00	100.00	
19.337	19.337	(1.161)	92	1186951			30.39- 90.39	60.39	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	718917	10.0000	9.105	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	451728			32.83- 92.83	62.83	
20.050	20.050	(0.934)	83	609665			54.80- 114.80	84.80	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	1000487	10.0000	8.866	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	719010			41.87- 101.87	71.87	
20.212	20.212	(0.941)	131	695585			39.52- 99.52	69.52	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.862	20.862	(0.972)	107	1117820	10.0000	9.833	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.862	20.862	(0.972)	109	1052985			64.20- 124.20	94.20	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	768810	10.0000	10.449	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	2440919			0.00- 30.00	317.49	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	821998	10.0000	10.528	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	1625071			0.00- 30.00	197.70	

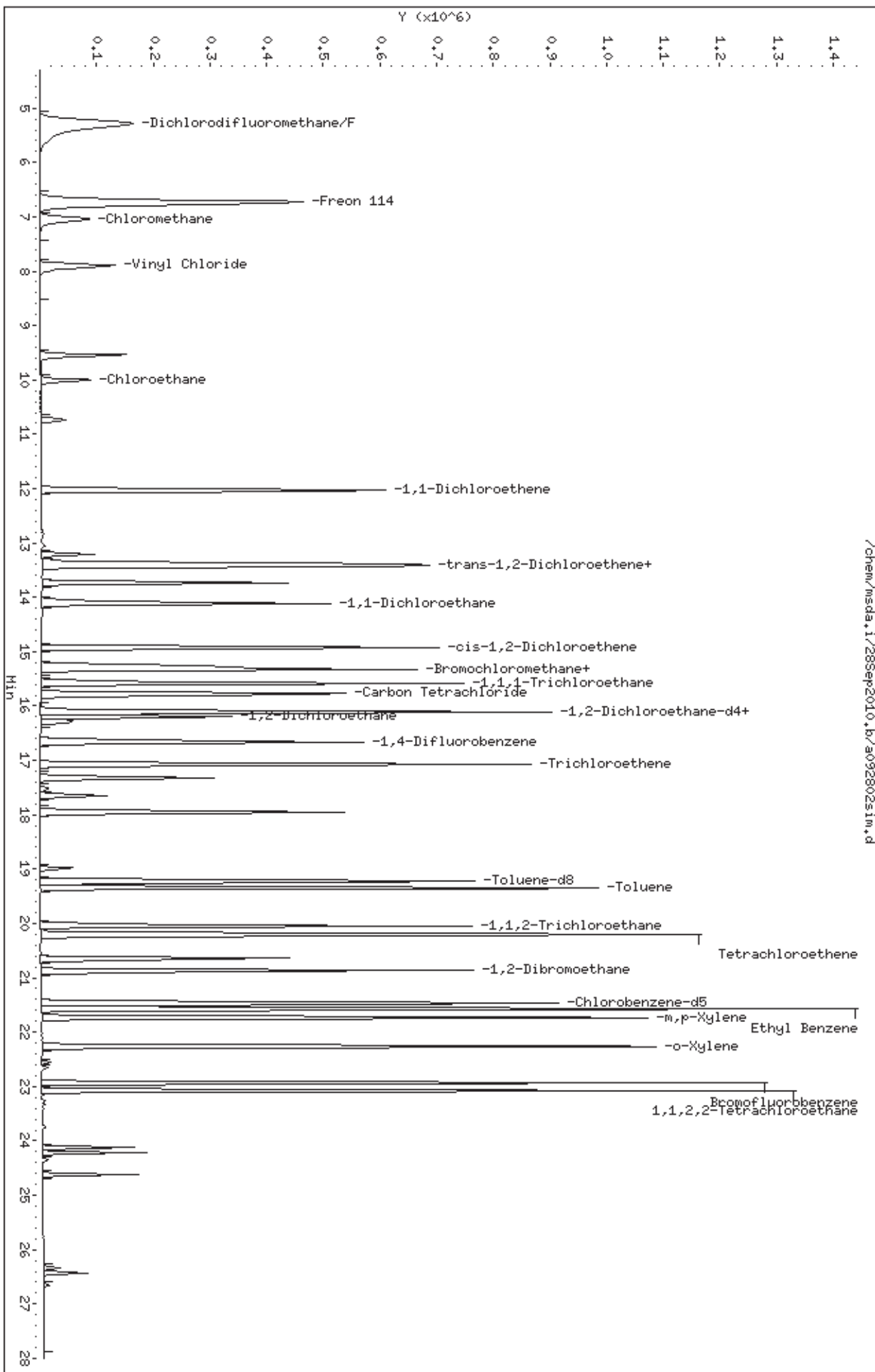
61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	784136	10.0000	10.842	80.00- 120.00	100.00	
22.240	22.240	(1.036)	91	1658273			181.48- 241.48	211.48	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.076	23.076	(1.075)	83	1596784	10.0000	9.689	80.00- 120.00	100.00	
23.076	23.076	(1.075)	85	1031818			34.62- 94.62	64.62	

Data File: /chem/msda.i/28Sep2010.b/a092802sim.d
Date: 28-SEP-2010 19:58
Client ID: CCV
Sample Info: 50mL #1936-327

Column phase: RTX-624

Instrument: msda.i
Operator: ea
Column diameter: 0.53



Client Sample ID: LCS

Lab ID#: 1009208-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092719	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 08:44 PM

Compound	%Recovery
Chloromethane	88
1,3-Butadiene	94
Bromomethane	98
Chloroethane	85
Freon 11	95
Ethanol	83
Freon 113	95
Acetone	101
2-Propanol	96
Carbon Disulfide	104
3-Chloropropene	106
Methylene Chloride	88
Hexane	93
2-Butanone (Methyl Ethyl Ketone)	95
Tetrahydrofuran	94
Chloroform	95
Cyclohexane	98
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	88
Heptane	96
1,2-Dichloropropane	98
1,4-Dioxane	100
Bromodichloromethane	100
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	91
trans-1,3-Dichloropropene	100
2-Hexanone	102
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	104
Chlorobenzene	101
Styrene	99
Bromoform	114
Cumene	102
Propylbenzene	105
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	102

Client Sample ID: LCS

Lab ID#: 1009208-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092719	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 08:44 PM

Compound	%Recovery
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS Client Smp ID: LCS
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCS
 SpikeList File: AT09.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	10.000	9.459	94.59	70-130
2 Propylene	10.000	9.394	93.94	60-140
6 Freon 114	10.000	9.446	94.47	70-130
7 Chloromethane	10.000	8.831	88.31	70-130
10 Vinyl Chloride	10.000	9.620	96.20	70-130
11 1,3-Butadiene	10.000	9.410	94.10	60-140
12 Bromomethane	10.000	9.812	98.12	70-130
13 Chloroethane	10.000	8.485	84.85	70-130
16 Trichlorofluoromet	10.000	9.486	94.86	70-130
20 Ethanol	10.000	8.322	83.22	60-140
22 Freon 113	10.000	9.504	95.04	70-130
23 1,1-Dichloroethene	10.000	9.184	91.84	70-130
24 Acetone	10.000	10.115	101.15	60-140
26 Carbon Disulfide	10.000	10.368	103.68	60-140
27 2-Propanol	10.000	9.634	96.34	60-140
28 3-Chloroprene	10.000	10.655	106.55	60-140
33 Methylene Chloride	10.000	8.754	87.54	70-130
35 MTBE	10.000	9.772	97.72	60-140
36 trans-1,2-Dichloro	10.000	10.084	100.84	60-140
40 Hexane	10.000	9.322	93.22	60-140
42 1,1-Dichloroethane	10.000	9.044	90.44	70-130
44 Vinyl Acetate	10.000	10.610	106.10	60-140
47 cis-1,2-Dichloroet	10.000	9.746	97.46	70-130
48 2-Butanone	10.000	9.543	95.43	60-140
51 Tetrahydrofuran	10.000	9.445	94.45	60-140
53 Chloroform	10.000	9.539	95.39	70-130
55 Cyclohexane	10.000	9.781	97.81	60-140
56 1,1,1-Trichloroeth	10.000	9.710	97.10	70-130
57 Carbon Tetrachlori	10.000	9.612	96.12	70-130
59 2,2,4-Trimethylpen	10.000	8.818	88.18	60-140
60 Benzene	10.000	9.662	96.62	70-130
64 Heptane	10.000	9.551	95.51	60-140
63 1,2-Dichloroethane	10.000	8.942	89.42	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 Trichloroethene	10.000	10.070	100.70	70-130
72 1,2-Dichloropropan	10.000	9.797	97.97	70-130
74 1,4-Dioxane	10.000	10.029	100.29	60-140
76 Bromodichlorometha	10.000	10.005	100.05	60-140
77 cis-1,3-Dichloropr	10.000	10.032	100.32	70-130
78 4-Methyl-2-pentano	10.000	9.104	91.04	60-140
81 Toluene	10.000	9.347	93.47	70-130
82 trans-1,3-Dichloro	10.000	10.038	100.38	70-130
83 1,1,2-Trichloroeth	10.000	10.114	101.14	70-130
85 2-Hexanone	10.000	10.220	102.20	60-140
84 Tetrachloroethene	10.000	10.007	100.07	70-130
86 Dibromochlorometha	10.000	11.041	110.41	60-140
87 1,2-Dibromoethane	10.000	10.417	104.17	70-130
89 Chlorobenzene	10.000	10.077	100.77	70-130
91 Ethyl Benzene	10.000	10.249	102.49	70-130
93 m,p-Xylene	10.000	10.398	103.98	70-130
94 o-Xylene	10.000	10.294	102.94	70-130
95 Styrene	10.000	9.938	99.38	70-130
97 Bromoform	10.000	11.376	113.76	60-140
98 Cumene	10.000	10.250	102.50	60-140
103 1,1,2,2-Tetrachlor	10.000	10.536	105.36	70-130
104 Propylbenzene	10.000	10.501	105.01	70-130
107 4-Ethyltoluene	10.000	10.511	105.11	60-140
109 1,3,5-Trimethylben	10.000	10.533	105.33	70-130
112 1,2,4-Trimethylben	10.000	10.605	106.05	70-130
115 1,3-Dichlorobenzen	10.000	10.066	100.66	70-130
117 1,4-Dichlorobenzen	10.000	9.774	97.74	70-130
118 alpha-chlorotoluen	10.000	10.493	104.93	70-130
121 1,2-Dichlorobenzen	10.000	10.204	102.04	70-130
126 1,2,4-Trichloroben	10.000	8.607	86.07	70-130
128 Hexachlorobutadien	10.000	8.378	83.78	70-130
129 Naphthalene	10.000	8.510	85.10	60-140
14 Isopentane	10.000	10.473	104.73	60-140
9 Butane	10.000	9.626	96.26	60-140
69 Methylcyclohexane	10.000	10.301	103.01	60-140
34 tert-butyl alcohol	10.000	10.078	100.78	60-140
41 Isopropyl ether	10.000	9.768	97.68	60-140
46 Ethyl-tert-butyl e	10.000	10.293	102.93	60-140
62 tert-amyl methyl e	10.000	10.966	109.66	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.994	89.94	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 80 Toluene-d8	10.000	9.770	97.70	70-130
\$ 100 Bromofluorobenzene	10.000	10.128	101.28	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092719.d
 Lab Smp Id: LCS Client Smp ID: LCS
 Inj Date : 27-SEP-2010 20:44
 Operator : ea Inst ID: msda.i
 Smp Info : 50mL #1936-341
 Misc Info : 10ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
 Meth Date : 27-Sep-2010 20:31 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT09.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	351328	10.0000			80.00- 120.00	100.00
15.255	15.255	(1.000)	128	269965				48.35- 108.35	76.84
15.255	15.255	(1.000)	49	476368				89.31- 149.31	135.59

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1434020	10.0000			80.00- 120.00	100.00
16.647	16.647	(1.000)	88	227134				0.00- 46.24	15.84

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1332522	10.0000			80.00- 120.00	100.00
21.456	21.456	(1.000)	82	740552				25.95- 85.95	55.58

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	459303	8.99434	8.994		80.00- 120.00	100.00
16.098	16.098	(1.055)	67	274320				0.00- 30.00	59.73

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.211	19.234	(1.154)	98	1426922	9.76976	9.770		80.00- 120.00	100.00
19.211	19.211	(1.154)	70	155320				0.00- 30.00	10.88

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.211	19.234	(1.154)	100	956905			37.02-	97.02	67.06

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	689553	10.1279	10.128	80.00-	120.00	100.00
22.908	22.908	(1.068)	95	895408			99.22-	159.22	129.85
22.934	22.934	(1.069)	176	672973			66.37-	126.37	97.60

2 Propylene CAS #: 115-07-1									
4.746	4.745	(0.311)	41	322428	9.39397	9.394	80.00-	120.00	100.00
4.746	4.745	(0.311)	42	210752			0.00-	30.00	65.36
4.746	4.745	(0.311)	39	226084			0.00-	30.00	70.12

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.252	5.276	(0.344)	85	1334981	9.45930	9.459	80.00-	120.00	100.00
5.276	5.276	(0.346)	87	433222			2.39-	62.39	32.45

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	882432	9.44659	9.446	80.00-	120.00	100.00
6.722	6.722	(0.441)	137	281626			0.00-	30.00	31.91

7 Chloromethane CAS #: 74-87-3									
7.011	7.011	(0.460)	50	388854	8.83108	8.831	80.00-	120.00	100.00
7.011	7.011	(0.460)	52	126811			0.00-	30.00	32.61

9 Butane CAS #: 106-97-8									
7.761	7.761	(0.509)	58	98921	9.62611	9.626	80.00-	120.00	100.00
7.761	7.761	(0.509)	43	644220			0.00-	30.00	651.25

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	495509	9.61999	9.620	80.00-	120.00	100.00
7.883	7.883	(0.517)	64	159145			1.83-	61.83	32.12

11 1,3-Butadiene CAS #: 106-99-0									
8.109	8.109	(0.532)	54	335613	9.41029	9.410	80.00-	120.00	100.00
8.109	8.109	(0.532)	39	312843			0.00-	30.00	93.22

12 Bromomethane CAS #: 74-83-9									
9.522	9.522	(0.624)	94	272670	9.81203	9.812	80.00-	120.00	100.00
9.522	9.522	(0.624)	96	254883			63.06-	123.06	93.48

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	196359	8.48466	8.485	80.00-	120.00	100.00
9.998	9.998	(0.655)	66	68234			0.00-	30.00	34.75

14 Isopentane CAS #: 78-78-4									
10.123	10.123	(0.664)	57	400580	10.4726	10.473	80.00-	120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
				ON-COL (PPBV)	FINAL (PPBV)		
14 Isopentane (continued)							
10.123	10.143 (0.664)	43	546835			0.00- 30.00	136.51
10.123	10.143 (0.664)	42	486082			0.00- 30.00	121.34

16 Trichlorofluoromethane/Fr11				CAS #: 75-69-4			
10.724	10.724 (0.703)	101	1245079	9.48589	9.486	80.00- 120.00	100.00
10.724	10.724 (0.703)	103	813048			35.22- 95.22	65.30

20 Ethanol				CAS #: 64-17-5			
11.553	11.553 (0.757)	45	130999	8.32229	8.322	80.00- 120.00	100.00
11.553	11.553 (0.757)	43	27279			0.00- 30.00	20.82
11.553	11.553 (0.757)	46	54366			0.00- 30.00	41.50

23 1,1-Dichloroethene				CAS #: 75-35-4			
12.030	12.030 (0.789)	98	281073	9.18402	9.184	80.00- 120.00	100.00
12.030	12.030 (0.789)	61	650655			0.00- 30.00	231.49
12.030	12.030 (0.789)	96	439495			0.00- 30.00	156.36

22 Freon 113				CAS #: 76-13-1			
12.009	12.009 (0.787)	151	783646	9.50397	9.504	80.00- 120.00	100.00
12.009	12.009 (0.787)	153	500578			33.72- 93.72	63.88
12.009	12.009 (0.787)	101	1005322			0.00- 30.00	128.29

24 Acetone				CAS #: 67-64-1			
12.258	12.279 (0.804)	58	211171	10.1151	10.115	80.00- 120.00	100.00
12.258	12.258 (0.804)	43	590398			0.00- 30.00	279.58

26 Carbon Disulfide				CAS #: 75-15-0			
12.382	12.382 (0.812)	76	1429538	10.3682	10.368	80.00- 120.00	100.00

28 3-Chloroprene				CAS #: 107-05-1			
12.776	12.776 (0.837)	76	185005	10.6555	10.655	80.00- 120.00	100.00
12.776	12.776 (0.837)	41	450727			0.00- 30.00	243.63

27 2-Propanol				CAS #: 67-63-0			
12.569	12.569 (0.824)	45	759393	9.63429	9.634	80.00- 120.00	100.00
12.569	12.569 (0.824)	43	130728			0.00- 30.00	17.21
12.569	12.569 (0.824)	59	29289			0.00- 30.00	3.86

33 Methylene Chloride				CAS #: 75-09-2			
13.037	13.037 (0.855)	84	405010	8.75440	8.754	80.00- 120.00	100.00
13.037	13.037 (0.855)	49	436119			0.00- 30.00	107.68
13.037	13.037 (0.855)	51	136736			0.00- 30.00	33.76

34 tert-butyl alcohol				CAS #: 75-65-0			
13.229	13.229 (0.867)	59	922353	10.0780	10.078	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	205068			0.00-	30.00	22.23
13.229	13.229	(0.867)	57	93353			0.00-	30.00	10.12

35 MTBE					CAS #: 1634-04-4				
13.367	13.367	(0.876)	73	1492924	9.77199	9.772	80.00-	120.00	100.00
13.367	13.367	(0.876)	57	314744			0.00-	30.00	21.08
13.367	13.367	(0.876)	41	287099			0.00-	30.00	19.23

36 trans-1,2-Dichloroethene					CAS #: 156-60-5				
13.422	13.422	(0.880)	98	357815	10.0836	10.084	80.00-	120.00	100.00
13.422	13.422	(0.880)	61	723189			0.00-	30.00	202.11
13.422	13.422	(0.880)	96	563054			0.00-	30.00	157.36

40 Hexane					CAS #: 110-54-3				
13.724	13.723	(0.900)	57	795190	9.32190	9.322	80.00-	120.00	100.00
13.724	13.723	(0.900)	43	476954			0.00-	30.00	59.98
13.724	13.723	(0.900)	86	162725			0.00-	30.00	20.46

41 Isopropyl ether					CAS #: 108-20-3				
14.053	14.053	(0.921)	45	1628622	9.76841	9.768	80.00-	120.00	100.00
14.053	14.080	(0.921)	87	535325			0.00-	30.00	32.87
14.053	14.053	(0.921)	59	205342			0.00-	30.00	12.61

42 1,1-Dichloroethane					CAS #: 75-34-3				
14.108	14.108	(0.925)	63	895380	9.04357	9.044	80.00-	120.00	100.00
14.108	14.108	(0.925)	65	289635			0.00-	30.00	32.35

44 Vinyl Acetate					CAS #: 108-05-4				
14.135	14.135	(0.927)	86	144836	10.6104	10.610	80.00-	120.00	100.00
14.135	14.135	(0.927)	42	166261			0.00-	30.00	114.79
14.135	14.135	(0.927)	43	1923931			0.00-	30.00	1328.35

46 Ethyl-tert-butyl ether					CAS #: 637-92-3				
14.562	14.562	(0.955)	59	1639438	10.2935	10.293	80.00-	120.00	100.00
14.562	14.562	(0.955)	87	758906			0.00-	30.00	46.29
14.562	14.562	(0.955)	41	280167			0.00-	30.00	17.09

47 cis-1,2-Dichloroethene					CAS #: 156-59-2				
14.915	14.915	(0.978)	98	350515	9.74557	9.746	80.00-	120.00	100.00
14.915	14.915	(0.978)	61	654002			0.00-	30.00	186.58
14.915	14.915	(0.978)	96	551502			127.55-	187.55	157.34

48 2-Butanone					CAS #: 78-93-3				
14.915	14.915	(0.978)	72	274872	9.54330	9.543	80.00-	120.00	100.00
14.915	14.915	(0.978)	43	925333			0.00-	30.00	336.64

CONCENTRATIONS									
RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO		
				ON-COL (PPBV)	FINAL (PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
48 2-Butanone (continued)									
14.915	14.915 (0.978)	57	75580			0.00- 30.00	27.50		

51 Tetrahydrofuran CAS #: 109-99-9									
15.255	15.255 (1.000)	42	521111	9.44523	9.445	80.00- 120.00	100.00		
15.255	15.255 (1.000)	71	240542			0.00- 30.00	46.16		
15.255	15.255 (1.000)	72	260941			0.00- 30.00	50.07		

53 Chloroform CAS #: 67-66-3									
15.317	15.317 (1.004)	83	1069036	9.53899	9.539	80.00- 120.00	100.00		
15.317	15.317 (1.004)	85	692652			0.00- 30.00	64.79		

55 Cyclohexane CAS #: 110-82-7									
15.594	15.594 (1.022)	84	791254	9.78080	9.781	80.00- 120.00	100.00		
15.594	15.594 (1.022)	56	805822			0.00- 30.00	101.84		
15.594	15.594 (1.022)	41	413622			0.00- 30.00	52.27		

56 1,1,1-Trichloroethane CAS #: 71-55-6									
15.564	15.564 (1.020)	97	1111305	9.70973	9.710	80.00- 120.00	100.00		
15.564	15.564 (1.020)	99	716520			0.00- 30.00	64.48		

57 Carbon Tetrachloride CAS #: 56-23-5									
15.779	15.779 (1.034)	119	1120903	9.61177	9.612	80.00- 120.00	100.00		
15.779	15.779 (1.034)	117	1159539			0.00- 30.00	103.45		

59 2,2,4-Trimethylpentane CAS #: 540-84-1									
16.043	16.043 (1.052)	56	815907	8.81788	8.818	80.00- 120.00	100.00		
16.043	16.043 (1.052)	57	2416016			0.00- 30.00	296.11		
16.043	16.043 (1.052)	41	587669			0.00- 30.00	72.03		

60 Benzene CAS #: 71-43-2									
16.098	16.098 (0.967)	78	1727867	9.66157	9.662	80.00- 120.00	100.00		
16.098	16.098 (0.967)	77	399912			0.00- 30.00	23.14		

62 tert-amyl methyl ether CAS #: 994-05-8									
16.153	16.153 (0.970)	87	404139	10.9664	10.966	80.00- 120.00	100.00		
16.153	16.153 (0.970)	73	1700185			0.00- 30.00	420.69		
16.126	16.153 (0.969)	55	422393			0.00- 30.00	104.52		

63 1,2-Dichloroethane CAS #: 107-06-2									
16.208	16.208 (0.974)	62	681028	8.94246	8.942	80.00- 120.00	100.00		
16.208	16.208 (0.974)	64	224937			0.00- 30.00	33.03		

64 Heptane CAS #: 142-82-5									
16.290	16.290 (0.979)	57	478648	9.55061	9.551	80.00- 120.00	100.00		
16.290	16.290 (0.979)	100	204195			0.00- 30.00	42.66		

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	CONCENTRATIONS		TARGET RANGE	RATIO		
				ON-COL	FINAL				
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	829235		0.00- 30.00	173.25		

67 Trichloroethene					CAS #: 79-01-6				
17.059	17.059	(1.025)	130	776396	10.0695	10.070	80.00- 120.00	100.00	
17.059	17.059	(1.025)	95	734117			0.00- 30.00	94.55	
17.059	17.059	(1.025)	97	484007			0.00- 30.00	62.34	

69 Methylcyclohexane					CAS #: 108-87-2				
17.306	17.306	(1.040)	83	1049042	10.3012	10.301	80.00- 120.00	100.00	
17.306	17.334	(1.040)	98	504073			0.00- 30.00	48.05	
17.306	17.306	(1.040)	55	731066			0.00- 30.00	69.69	

72 1,2-Dichloropropane					CAS #: 78-87-5				
17.526	17.526	(1.053)	63	608527	9.79666	9.797	80.00- 120.00	100.00	
17.526	17.526	(1.053)	62	432548			0.00- 30.00	71.08	
17.526	17.526	(1.053)	41	298470			19.45- 79.45	49.05	

74 1,4-Dioxane					CAS #: 123-91-1				
17.636	17.636	(1.059)	88	406778	10.0293	10.029	80.00- 120.00	100.00	
17.636	17.636	(1.059)	58	255621			0.00- 30.00	62.84	
17.636	17.636	(1.059)	57	82811			0.00- 30.00	20.36	

76 Bromodichloromethane					CAS #: 75-27-4				
17.938	17.938	(1.078)	83	1129441	10.0047	10.005	80.00- 120.00	100.00	
17.938	17.938	(1.078)	85	719087			0.00- 30.00	63.67	

77 cis-1,3-Dichloropropene					CAS #: 10061-01-5				
18.786	18.786	(1.128)	75	915197	10.0323	10.032	80.00- 120.00	100.00	
18.786	18.786	(1.128)	77	288680			0.00- 30.00	31.54	
18.786	18.786	(1.128)	39	368906			10.86- 70.86	40.31	

78 4-Methyl-2-pentanone					CAS #: 108-10-1				
18.965	18.987	(1.139)	43	1072360	9.10359	9.104	80.00- 120.00	100.00	
18.987	18.987	(1.141)	58	456929			0.00- 30.00	42.61	
18.987	18.987	(1.141)	85	221075			0.00- 30.00	20.62	

81 Toluene					CAS #: 108-88-3				
19.346	19.346	(1.162)	91	1864253	9.34686	9.347	80.00- 120.00	100.00	
19.346	19.346	(1.162)	92	1106127			0.00- 30.00	59.33	

82 trans-1,3-Dichloropropene					CAS #: 10061-02-6				
19.749	19.749	(0.920)	75	945252	10.0379	10.038	80.00- 120.00	100.00	
19.749	19.749	(0.920)	77	299704			0.00- 30.00	31.71	
19.727	19.749	(0.919)	39	372500			9.66- 69.66	39.41	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	703394	10.1144	10.114	80.00- 120.00	100.00	
20.036	20.036	(0.934)	99	442074			0.00- 30.00	62.85	
20.036	20.036	(0.934)	83	605188			56.15- 116.15	86.04	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	954554	10.0070	10.007	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	723663			0.00- 30.00	75.81	
20.199	20.199	(0.941)	131	692910			0.00- 30.00	72.59	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	650006	10.2197	10.220	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1094779			0.00- 30.00	168.43	
20.329	20.329	(0.947)	100	157367			0.00- 30.00	24.21	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1161131	11.0411	11.041	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	897424			0.00- 30.00	77.29	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	1117223	10.4168	10.417	80.00- 120.00	100.00	
20.881	20.881	(0.973)	109	1049085			0.00- 30.00	93.90	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1596533	10.0768	10.077	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	515382			0.00- 30.00	32.28	
21.504	21.504	(1.002)	77	931204			27.91- 87.91	58.33	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	779562	10.2489	10.249	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2388401			0.00- 30.00	306.38	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	831801	10.3982	10.398	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1588752			0.00- 30.00	191.00	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	785034	10.2937	10.294	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1589600			0.00- 30.00	202.49	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1197221	9.93763	9.938	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	579673			0.00- 30.00	48.42	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1075105	11.3765	11.376	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	555323			0.00-	30.00	51.65

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2309418	10.2496	10.250	80.00-	120.00	100.00
22.676	22.676	(1.057)	120	618094			0.00-	30.00	26.76

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1550292	10.5360	10.536	80.00-	120.00	100.00
23.063	23.063	(1.075)	85	998799			0.00-	30.00	64.43

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2228681	10.5013	10.501	80.00-	120.00	100.00
23.140	23.140	(1.078)	120	524957			0.00-	30.00	23.55

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1712570	10.5107	10.511	80.00-	120.00	100.00
23.269	23.269	(1.085)	120	524771			0.00-	30.00	30.64

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1349142	10.5332	10.533	80.00-	120.00	100.00
23.321	23.321	(1.087)	120	659067			0.00-	30.00	48.85

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	969435	10.6046	10.605	80.00-	120.00	100.00
23.759	23.759	(1.107)	120	456603			0.00-	30.00	47.10

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1126790	10.0661	10.066	80.00-	120.00	100.00
24.120	24.120	(1.124)	148	717230			0.00-	30.00	63.65
24.120	24.120	(1.124)	111	439633			0.00-	30.00	39.02

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	1006670	9.77386	9.774	80.00-	120.00	100.00
24.223	24.223	(1.129)	148	641442			0.00-	30.00	63.72
24.223	24.223	(1.129)	111	376693			0.00-	30.00	37.42

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1634858	10.4933	10.493	80.00-	120.00	100.00
24.352	24.352	(1.135)	126	352758			0.00-	30.00	21.58

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	969053	10.2040	10.204	80.00-	120.00	100.00
24.636	24.636	(1.148)	148	613437			33.84-	93.84	63.30
24.636	24.636	(1.148)	111	395448			11.42-	71.42	40.81

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
26.338	26.338	(1.228)	180	258667	8.60692	8.607	80.00- 120.00	100.00	
26.338	26.338	(1.228)	182	246008			0.00- 30.00	95.11	

128	Hexachlorobutadiene					CAS #: 87-68-3			
26.416	26.416	(1.231)	225	390289	8.37815	8.378	80.00- 120.00	100.00	
26.416	26.416	(1.231)	223	244591			0.00- 30.00	62.67	

129	Naphthalene					CAS #: 91-20-3			
26.648	26.648	(1.242)	128	443468	8.50958	8.510	80.00- 120.00	100.00	
26.648	26.648	(1.242)	127	55236			0.00- 30.00	12.46	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092719.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 27-SEP-2010
Calibration Time: 19:59
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	351328	-0.87
66 1,4-Difluorobenze	1467275	880365	2054185	1434020	-2.27
88 Chlorobenzene-d5	1353012	811807	1894217	1332522	-1.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 27-SEP-2010 20:44

Client ID: LCS

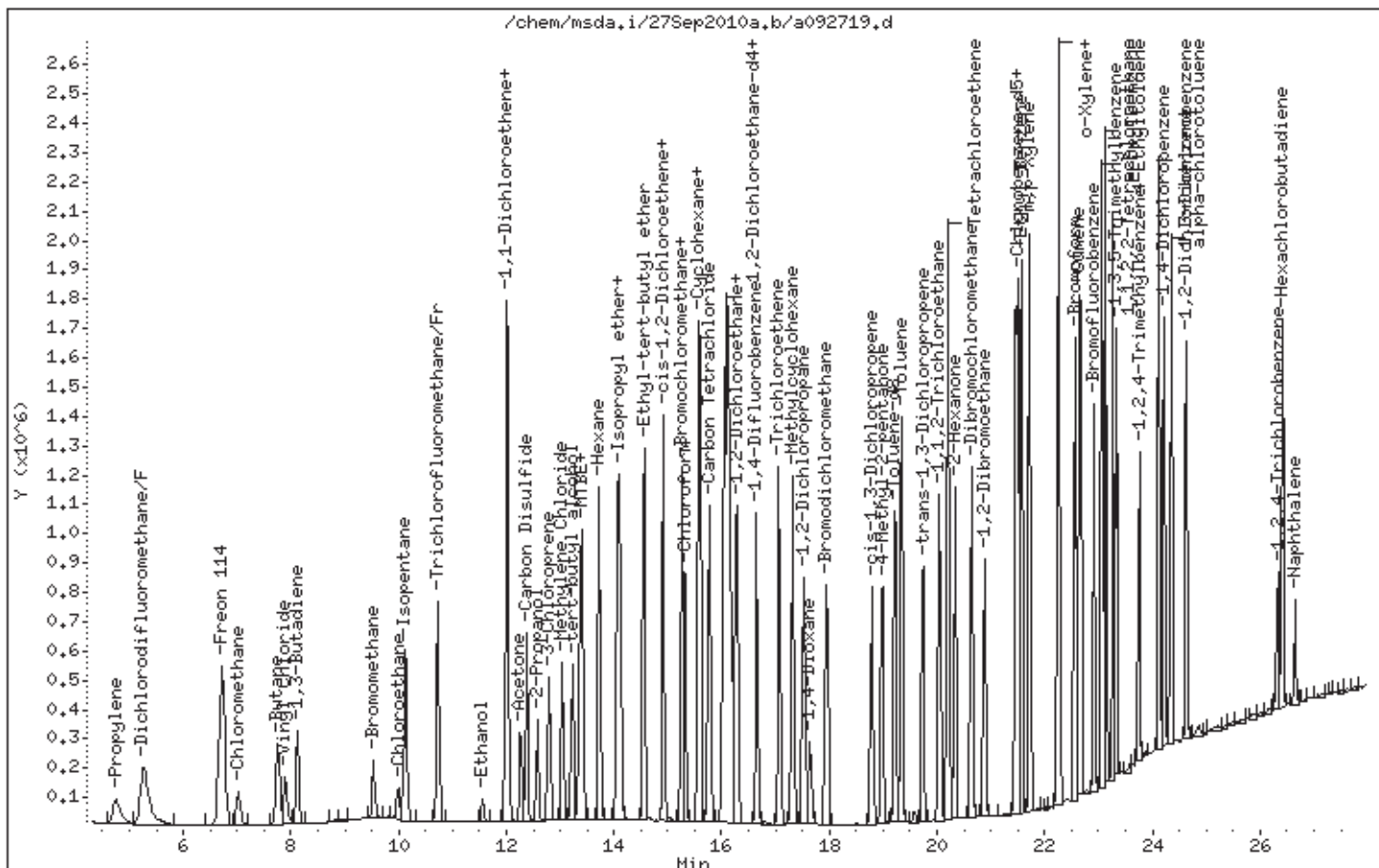
Instrument: msda.i

Sample Info: 50mL #1936-341

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: LCSD

Lab ID#: 1009208-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092720	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 09:19 PM

Compound	%Recovery
Chloromethane	90
1,3-Butadiene	94
Bromomethane	103
Chloroethane	98
Freon 11	97
Ethanol	83
Freon 113	96
Acetone	101
2-Propanol	83
Carbon Disulfide	106
3-Chloropropene	112
Methylene Chloride	89
Hexane	94
2-Butanone (Methyl Ethyl Ketone)	97
Tetrahydrofuran	97
Chloroform	96
Cyclohexane	100
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	88
Heptane	96
1,2-Dichloropropane	99
1,4-Dioxane	103
Bromodichloromethane	101
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	91
trans-1,3-Dichloropropene	102
2-Hexanone	103
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	104
Chlorobenzene	101
Styrene	101
Bromoform	114
Cumene	104
Propylbenzene	107
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	100



Client Sample ID: LCSD

Lab ID#: 1009208-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092720	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 09:19 PM

Compound	%Recovery
1,2,4-Trichlorobenzene	75
Hexachlorobutadiene	67 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCSD Client Smp ID: LCSD
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: AT09.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	10.000	9.554	95.54	70-130
2 Propylene	10.000	9.092	90.92	60-140
6 Freon 114	10.000	9.594	95.94	70-130
7 Chloromethane	10.000	8.974	89.74	70-130
10 Vinyl Chloride	10.000	9.641	96.41	70-130
11 1,3-Butadiene	10.000	9.453	94.53	60-140
12 Bromomethane	10.000	10.332	103.32	70-130
13 Chloroethane	10.000	9.817	98.17	70-130
16 Trichlorofluoromet	10.000	9.673	96.73	70-130
20 Ethanol	10.000	8.278	82.78	60-140
22 Freon 113	10.000	9.577	95.77	70-130
23 1,1-Dichloroethene	10.000	9.401	94.01	70-130
24 Acetone	10.000	10.127	101.27	60-140
26 Carbon Disulfide	10.000	10.610	106.10	60-140
27 2-Propanol	10.000	8.331	83.31	60-140
28 3-Chloroprene	10.000	11.205	112.05	60-140
33 Methylene Chloride	10.000	8.930	89.30	70-130
35 MTBE	10.000	9.856	98.57	60-140
36 trans-1,2-Dichloro	10.000	10.202	102.02	60-140
40 Hexane	10.000	9.382	93.82	60-140
42 1,1-Dichloroethane	10.000	9.143	91.43	70-130
44 Vinyl Acetate	10.000	10.784	107.84	60-140
47 cis-1,2-Dichloroet	10.000	10.018	100.18	70-130
48 2-Butanone	10.000	9.725	97.25	60-140
51 Tetrahydrofuran	10.000	9.675	96.75	60-140
53 Chloroform	10.000	9.652	96.52	70-130
55 Cyclohexane	10.000	10.002	100.02	60-140
56 1,1,1-Trichloroeth	10.000	9.847	98.47	70-130
57 Carbon Tetrachlori	10.000	9.733	97.33	70-130
59 2,2,4-Trimethylpen	10.000	8.764	87.64	60-140
60 Benzene	10.000	9.704	97.04	70-130
64 Heptane	10.000	9.594	95.94	60-140
63 1,2-Dichloroethane	10.000	8.994	89.95	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 Trichloroethene	10.000	10.209	102.09	70-130
72 1,2-Dichloropropan	10.000	9.924	99.24	70-130
74 1,4-Dioxane	10.000	10.347	103.47	60-140
76 Bromodichlorometha	10.000	10.086	100.86	60-140
77 cis-1,3-Dichloropr	10.000	10.134	101.34	70-130
78 4-Methyl-2-pentano	10.000	9.088	90.88	60-140
81 Toluene	10.000	9.378	93.78	70-130
82 trans-1,3-Dichloro	10.000	10.185	101.85	70-130
83 1,1,2-Trichloroeth	10.000	10.281	102.81	70-130
85 2-Hexanone	10.000	10.271	102.71	60-140
84 Tetrachloroethene	10.000	10.031	100.31	70-130
86 Dibromochlorometha	10.000	11.083	110.83	60-140
87 1,2-Dibromoethane	10.000	10.402	104.02	70-130
89 Chlorobenzene	10.000	10.127	101.27	70-130
91 Ethyl Benzene	10.000	10.389	103.89	70-130
93 m,p-Xylene	10.000	10.628	106.28	70-130
94 o-Xylene	10.000	10.433	104.33	70-130
95 Styrene	10.000	10.085	100.85	70-130
97 Bromoform	10.000	11.385	113.85	60-140
98 Cumene	10.000	10.407	104.07	60-140
103 1,1,2,2-Tetrachlor	10.000	10.517	105.17	70-130
104 Propylbenzene	10.000	10.665	106.65	70-130
107 4-Ethyltoluene	10.000	10.696	106.96	60-140
109 1,3,5-Trimethylben	10.000	10.463	104.63	70-130
112 1,2,4-Trimethylben	10.000	10.612	106.12	70-130
115 1,3-Dichlorobenzen	10.000	9.973	99.73	70-130
117 1,4-Dichlorobenzen	10.000	9.848	98.48	70-130
118 alpha-chlorotoluen	10.000	10.645	106.45	70-130
121 1,2-Dichlorobenzen	10.000	10.024	100.24	70-130
126 1,2,4-Trichloroben	10.000	7.472	74.72	70-130
128 Hexachlorobutadien	10.000	6.729	67.29*	70-130
129 Naphthalene	10.000	7.622	76.22	60-140
14 Isopentane	10.000	10.185	101.85	60-140
9 Butane	10.000	9.702	97.02	60-140
69 Methylcyclohexane	10.000	10.370	103.70	60-140
34 tert-butyl alcohol	10.000	10.386	103.86	60-140
41 Isopropyl ether	10.000	9.836	98.36	60-140
46 Ethyl-tert-butyl e	10.000	10.359	103.59	60-140
62 tert-amyl methyl e	10.000	11.247	112.47	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	9.243	92.43	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 80 Toluene-d8	10.000	9.712	97.12	70-130
\$ 100 Bromofluorobenzene	10.000	10.144	101.44	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/27Sep2010a.b/a092720.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 27-SEP-2010 21:19
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-341
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/27Sep2010a.b/a1010915a.m
Meth Date : 27-Sep-2010 20:31 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	354337	10.0000		80.00- 120.00	100.00	
15.255	15.255	(1.000)	128	270997			48.35- 108.35	76.48	
15.255	15.255	(1.000)	49	475350			89.31- 149.31	134.15	

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1449638	10.0000		80.00- 120.00	100.00	
16.647	16.647	(1.000)	88	229933			0.00- 46.24	15.86	

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1354633	10.0000		80.00- 120.00	100.00	
21.456	21.456	(1.000)	82	752006			25.95- 85.95	55.51	

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	476058	9.24328	9.243	80.00- 120.00	100.00	
16.098	16.098	(1.055)	67	277777			0.00- 30.00	58.35	

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.211	19.234	(1.154)	98	1433910	9.71183	9.712	80.00- 120.00	100.00	
19.211	19.211	(1.154)	70	154476			0.00- 30.00	10.77	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.211	19.234	(1.154)	100	970019			37.02-	97.02	67.65

\$ 100 Bromofluorobenzene									
									CAS #: 460-00-4
22.934	22.934	(1.069)	174	702101	10.1438	10.144	80.00-	120.00	100.00
22.908	22.908	(1.068)	95	897032			99.22-	159.22	127.76
22.934	22.934	(1.069)	176	678576			66.37-	126.37	96.65

2 Propylene									
									CAS #: 115-07-1
4.746	4.745	(0.311)	41	314722	9.09159	9.092	80.00-	120.00	100.00
4.746	4.745	(0.311)	42	215381			0.00-	30.00	68.44
4.722	4.745	(0.309)	39	225900			0.00-	30.00	71.78

4 Dichlorodifluoromethane/Fr12									
									CAS #: 75-71-8
5.252	5.276	(0.344)	85	1359893	9.55399	9.554	80.00-	120.00	100.00
5.252	5.276	(0.344)	87	438868			2.39-	62.39	32.27

6 Freon 114									
									CAS #: 76-14-2
6.722	6.722	(0.441)	135	903835	9.59355	9.594	80.00-	120.00	100.00
6.722	6.722	(0.441)	137	288309			0.00-	30.00	31.90

7 Chloromethane									
									CAS #: 74-87-3
7.011	7.011	(0.460)	50	398533	8.97403	8.974	80.00-	120.00	100.00
7.011	7.011	(0.460)	52	131503			0.00-	30.00	33.00

9 Butane									
									CAS #: 106-97-8
7.762	7.761	(0.509)	58	100550	9.70154	9.702	80.00-	120.00	100.00
7.762	7.761	(0.509)	43	651820			0.00-	30.00	648.25

10 Vinyl Chloride									
									CAS #: 75-01-4
7.883	7.883	(0.517)	62	500866	9.64142	9.641	80.00-	120.00	100.00
7.883	7.883	(0.517)	64	159741			1.83-	61.83	31.89

11 1,3-Butadiene									
									CAS #: 106-99-0
8.109	8.109	(0.532)	54	340015	9.45275	9.453	80.00-	120.00	100.00
8.109	8.109	(0.532)	39	313121			0.00-	30.00	92.09

12 Bromomethane									
									CAS #: 74-83-9
9.522	9.522	(0.624)	94	289575	10.3319	10.332	80.00-	120.00	100.00
9.522	9.522	(0.624)	96	269581			63.06-	123.06	93.10

13 Chloroethane									
									CAS #: 75-00-3
9.999	9.998	(0.655)	64	229135	9.81683	9.817	80.00-	120.00	100.00
9.999	9.998	(0.655)	66	75220			0.00-	30.00	32.83

14 Isopentane									
									CAS #: 78-78-4
10.123	10.123	(0.664)	57	392934	10.1855	10.185	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)									
10.123	10.143	(0.664)	43	544195			0.00-	30.00	138.50
10.123	10.143	(0.664)	42	476866			0.00-	30.00	121.36

16 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
10.724	10.724	(0.703)	101	1280545	9.67325	9.673	80.00-	120.00	100.00
10.724	10.724	(0.703)	103	825323			35.22-	95.22	64.45

20 Ethanol CAS #: 64-17-5									
11.553	11.553	(0.757)	45	131417	8.27795	8.278	80.00-	120.00	100.00
11.553	11.553	(0.757)	43	28417			0.00-	30.00	21.62
11.553	11.553	(0.757)	46	53611			0.00-	30.00	40.79

23 1,1-Dichloroethene CAS #: 75-35-4									
12.030	12.030	(0.789)	98	290190	9.40140	9.401	80.00-	120.00	100.00
12.030	12.030	(0.789)	61	658671			0.00-	30.00	226.98
12.030	12.030	(0.789)	96	454124			0.00-	30.00	156.49

22 Freon 113 CAS #: 76-13-1									
12.009	12.009	(0.787)	151	796459	9.57734	9.577	80.00-	120.00	100.00
12.009	12.009	(0.787)	153	515502			33.72-	93.72	64.72
12.009	12.009	(0.787)	101	1028858			0.00-	30.00	129.18

24 Acetone CAS #: 67-64-1									
12.258	12.279	(0.804)	58	213222	10.1266	10.127	80.00-	120.00	100.00
12.258	12.258	(0.804)	43	602975			0.00-	30.00	282.79

26 Carbon Disulfide CAS #: 75-15-0									
12.382	12.382	(0.812)	76	1475410	10.6101	10.610	80.00-	120.00	100.00

28 3-Chloroprene CAS #: 107-05-1									
12.776	12.776	(0.837)	76	196213	11.2050	11.205	80.00-	120.00	100.00
12.776	12.776	(0.837)	41	475882			0.00-	30.00	242.53

27 2-Propanol CAS #: 67-63-0									
12.569	12.569	(0.824)	45	662289	8.33100	8.331	80.00-	120.00	100.00
12.569	12.569	(0.824)	43	133466			0.00-	30.00	20.15
12.569	12.569	(0.824)	59	30680			0.00-	30.00	4.63

33 Methylene Chloride CAS #: 75-09-2									
13.037	13.037	(0.855)	84	416677	8.93011	8.930	80.00-	120.00	100.00
13.037	13.037	(0.855)	49	458846			0.00-	30.00	110.12
13.037	13.037	(0.855)	51	139436			0.00-	30.00	33.46

34 tert-butyl alcohol CAS #: 75-65-0									
13.229	13.229	(0.867)	59	958679	10.3859	10.386	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.229	(0.867)	41	212763			0.00-	30.00	22.19
13.229	13.229	(0.867)	57	96758			0.00-	30.00	10.09

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	1518745	9.85658	9.856	80.00-	120.00	100.00
13.367	13.367	(0.876)	57	316401			0.00-	30.00	20.83
13.367	13.367	(0.876)	41	282525			0.00-	30.00	18.60

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.422	13.422	(0.880)	98	365110	10.2018	10.202	80.00-	120.00	100.00
13.422	13.422	(0.880)	61	741923			0.00-	30.00	203.21
13.422	13.422	(0.880)	96	577747			0.00-	30.00	158.24

40 Hexane CAS #: 110-54-3									
13.724	13.723	(0.900)	57	807144	9.38169	9.382	80.00-	120.00	100.00
13.724	13.723	(0.900)	43	482697			0.00-	30.00	59.80
13.724	13.723	(0.900)	86	164235			0.00-	30.00	20.35

41 Isopropyl ether CAS #: 108-20-3									
14.053	14.053	(0.921)	45	1653973	9.83623	9.836	80.00-	120.00	100.00
14.053	14.080	(0.921)	87	542452			0.00-	30.00	32.80
14.053	14.053	(0.921)	59	204255			0.00-	30.00	12.35

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	913011	9.14334	9.143	80.00-	120.00	100.00
14.108	14.108	(0.925)	65	296963			0.00-	30.00	32.53

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	148470	10.7842	10.784	80.00-	120.00	100.00
14.108	14.135	(0.925)	42	164514			0.00-	30.00	110.81
14.108	14.135	(0.925)	43	1947205			0.00-	30.00	1311.51

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	1663964	10.3588	10.359	80.00-	120.00	100.00
14.562	14.562	(0.955)	87	778638			0.00-	30.00	46.79
14.542	14.562	(0.953)	41	283253			0.00-	30.00	17.02

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	363410	10.0183	10.018	80.00-	120.00	100.00
14.915	14.915	(0.978)	61	670477			0.00-	30.00	184.50
14.915	14.915	(0.978)	96	567879			127.55-	187.55	156.26

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	282518	9.72547	9.725	80.00-	120.00	100.00
14.915	14.915	(0.978)	43	941723			0.00-	30.00	333.33

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
48 2-Butanone (continued)									
14.915	14.915	(0.978)	57	79693			0.00-	30.00	28.21

51 Tetrahydrofuran					CAS #: 109-99-9				
15.255	15.255	(1.000)	42	538359	9.67499	9.675	80.00-	120.00	100.00
15.255	15.255	(1.000)	71	245400			0.00-	30.00	45.58
15.255	15.255	(1.000)	72	272122			0.00-	30.00	50.55

53 Chloroform					CAS #: 67-66-3				
15.317	15.317	(1.004)	83	1090969	9.65203	9.652	80.00-	120.00	100.00
15.317	15.317	(1.004)	85	710848			0.00-	30.00	65.16

55 Cyclohexane					CAS #: 110-82-7				
15.595	15.594	(1.022)	84	816050	10.0016	10.002	80.00-	120.00	100.00
15.595	15.594	(1.022)	56	823593			0.00-	30.00	100.92
15.595	15.594	(1.022)	41	417168			0.00-	30.00	51.12

56 1,1,1-Trichloroethane					CAS #: 71-55-6				
15.564	15.564	(1.020)	97	1136649	9.84683	9.847	80.00-	120.00	100.00
15.564	15.564	(1.020)	99	728532			0.00-	30.00	64.09

57 Carbon Tetrachloride					CAS #: 56-23-5				
15.779	15.779	(1.034)	119	1144767	9.73305	9.733	80.00-	120.00	100.00
15.779	15.779	(1.034)	117	1200184			0.00-	30.00	104.84

59 2,2,4-Trimethylpentane					CAS #: 540-84-1				
16.043	16.043	(1.052)	56	817886	8.76421	8.764	80.00-	120.00	100.00
16.043	16.043	(1.052)	57	2445710			0.00-	30.00	299.03
16.043	16.043	(1.052)	41	590445			0.00-	30.00	72.19

60 Benzene					CAS #: 71-43-2				
16.098	16.098	(0.967)	78	1754369	9.70407	9.704	80.00-	120.00	100.00
16.098	16.098	(0.967)	77	408283			0.00-	30.00	23.27

62 tert-amyl methyl ether					CAS #: 994-05-8				
16.153	16.153	(0.970)	87	419003	11.2472	11.247	80.00-	120.00	100.00
16.126	16.153	(0.969)	73	1724855			0.00-	30.00	411.66
16.126	16.153	(0.969)	55	427350			0.00-	30.00	101.99

63 1,2-Dichloroethane					CAS #: 107-06-2				
16.208	16.208	(0.974)	62	692452	8.99451	8.994	80.00-	120.00	100.00
16.208	16.208	(0.974)	64	227868			0.00-	30.00	32.91

64 Heptane					CAS #: 142-82-5				
16.263	16.290	(0.977)	57	486049	9.59380	9.594	80.00-	120.00	100.00
16.290	16.290	(0.979)	100	205532			0.00-	30.00	42.29

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.263	16.290	(0.977)	43	848135			0.00-	30.00	174.50

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	795732	10.2091	10.209	80.00-	120.00	100.00
17.059	17.059	(1.025)	95	759367			0.00-	30.00	95.43
17.059	17.059	(1.025)	97	491889			0.00-	30.00	61.82

69 Methylcyclohexane CAS #: 108-87-2									
17.306	17.306	(1.040)	83	1067517	10.3697	10.370	80.00-	120.00	100.00
17.306	17.334	(1.040)	98	516208			0.00-	30.00	48.36
17.306	17.306	(1.040)	55	733343			0.00-	30.00	68.70

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	623177	9.92442	9.924	80.00-	120.00	100.00
17.526	17.526	(1.053)	62	441393			0.00-	30.00	70.83
17.526	17.526	(1.053)	41	302728			19.45-	79.45	48.58

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	424246	10.3473	10.347	80.00-	120.00	100.00
17.636	17.636	(1.059)	58	260719			0.00-	30.00	61.45
17.636	17.636	(1.059)	57	84326			0.00-	30.00	19.88

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	1151028	10.0861	10.086	80.00-	120.00	100.00
17.938	17.938	(1.078)	85	736110			0.00-	30.00	63.95

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.786	(1.128)	75	934520	10.1338	10.134	80.00-	120.00	100.00
18.786	18.786	(1.128)	77	298500			0.00-	30.00	31.94
18.786	18.786	(1.128)	39	372340			10.86-	70.86	39.84

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.965	18.987	(1.139)	43	1082174	9.08792	9.088	80.00-	120.00	100.00
18.965	18.987	(1.139)	58	465361			0.00-	30.00	43.00
18.987	18.987	(1.141)	85	225073			0.00-	30.00	20.80

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	1890797	9.37781	9.378	80.00-	120.00	100.00
19.346	19.346	(1.162)	92	1130630			0.00-	30.00	59.80

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.727	19.749	(0.919)	75	974986	10.1846	10.185	80.00-	120.00	100.00
19.727	19.749	(0.919)	77	309705			0.00-	30.00	31.77
19.727	19.749	(0.919)	39	377738			9.66-	69.66	38.74

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
83 1,1,2-Trichloroethane					CAS #: 79-00-5				
20.036	20.036	(0.934)	97	726850	10.2811	10.281	80.00- 120.00	100.00	
20.036	20.036	(0.934)	99	449446			0.00- 30.00	61.83	
20.036	20.036	(0.934)	83	618717			56.15- 116.15	85.12	

84 Tetrachloroethene					CAS #: 127-18-4				
20.199	20.199	(0.941)	166	972734	10.0312	10.031	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	736999			0.00- 30.00	75.77	
20.199	20.199	(0.941)	131	708936			0.00- 30.00	72.88	

85 2-Hexanone					CAS #: 591-78-6				
20.329	20.329	(0.947)	58	664132	10.2714	10.271	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1117550			0.00- 30.00	168.27	
20.329	20.329	(0.947)	100	163820			0.00- 30.00	24.67	

86 Dibromochloromethane					CAS #: 124-48-1				
20.654	20.654	(0.963)	129	1184843	11.0827	11.083	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	916624			0.00- 30.00	77.36	

87 1,2-Dibromoethane					CAS #: 106-93-4				
20.882	20.881	(0.973)	107	1134111	10.4017	10.402	80.00- 120.00	100.00	
20.882	20.881	(0.973)	109	1073047			0.00- 30.00	94.62	

89 Chlorobenzene					CAS #: 108-90-7				
21.504	21.504	(1.002)	112	1631173	10.1274	10.127	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	523571			0.00- 30.00	32.10	
21.504	21.504	(1.002)	77	945066			27.91- 87.91	57.94	

91 Ethyl Benzene					CAS #: 100-41-4				
21.576	21.576	(1.006)	106	803305	10.3886	10.389	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2465444			0.00- 30.00	306.91	

93 m,p-Xylene					CAS #: 108-38-3				
21.721	21.721	(1.012)	106	864299	10.6281	10.628	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1651456			0.00- 30.00	191.07	

94 o-Xylene					CAS #: 95-47-6				
22.251	22.251	(1.037)	106	808861	10.4330	10.433	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1644264			0.00- 30.00	203.28	

95 Styrene					CAS #: 100-42-5				
22.275	22.275	(1.038)	104	1235127	10.0849	10.085	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	597948			0.00- 30.00	48.41	

97 Bromoform					CAS #: 75-25-2				
22.573	22.573	(1.052)	173	1093791	11.3853	11.385	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	560732			0.00-	30.00	51.27

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2383875	10.4074	10.407	80.00-	120.00	100.00
22.676	22.676	(1.057)	120	638488			0.00-	30.00	26.78

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1573187	10.5171	10.517	80.00-	120.00	100.00
23.063	23.063	(1.075)	85	1021285			0.00-	30.00	64.92

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2301013	10.6652	10.665	80.00-	120.00	100.00
23.140	23.140	(1.078)	120	545416			0.00-	30.00	23.70

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1771669	10.6960	10.696	80.00-	120.00	100.00
23.269	23.269	(1.085)	120	538944			0.00-	30.00	30.42

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1362377	10.4630	10.463	80.00-	120.00	100.00
23.321	23.321	(1.087)	120	669409			0.00-	30.00	49.14

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	986218	10.6121	10.612	80.00-	120.00	100.00
23.759	23.759	(1.107)	120	462061			0.00-	30.00	46.85

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1134932	9.97334	9.973	80.00-	120.00	100.00
24.120	24.120	(1.124)	148	720293			0.00-	30.00	63.47
24.120	24.120	(1.124)	111	446505			0.00-	30.00	39.34

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	1031164	9.84826	9.848	80.00-	120.00	100.00
24.223	24.223	(1.129)	148	655034			0.00-	30.00	63.52
24.223	24.223	(1.129)	111	388482			0.00-	30.00	37.67

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1685983	10.6448	10.645	80.00-	120.00	100.00
24.352	24.352	(1.135)	126	362607			0.00-	30.00	21.51

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	967768	10.0241	10.024	80.00-	120.00	100.00
24.636	24.636	(1.148)	148	617085			33.84-	93.84	63.76
24.636	24.636	(1.148)	111	400478			11.42-	71.42	41.38

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		

126	1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.338	26.338	(1.228)	180	228291	7.47219	7.472	80.00- 120.00	100.00
26.338	26.338	(1.228)	182	219131			0.00- 30.00	95.99

128	Hexachlorobutadiene					CAS #: 87-68-3		
26.416	26.416	(1.231)	225	318665	6.72898	6.729	80.00- 120.00	100.00(R)
26.416	26.416	(1.231)	223	200171			0.00- 30.00	62.82

129	Naphthalene					CAS #: 91-20-3		
26.648	26.648	(1.242)	128	403784	7.62163	7.622	80.00- 120.00	100.00
26.648	26.648	(1.242)	127	50482			0.00- 30.00	12.50

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092720.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 27-SEP-2010
Calibration Time: 19:59
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	354424	212654	496194	354337	-0.02
66 1,4-Difluorobenze	1467275	880365	2054185	1449638	-1.20
88 Chlorobenzene-d5	1353012	811807	1894217	1354633	0.12

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 27-SEP-2010 21:19

Client ID: LCSD

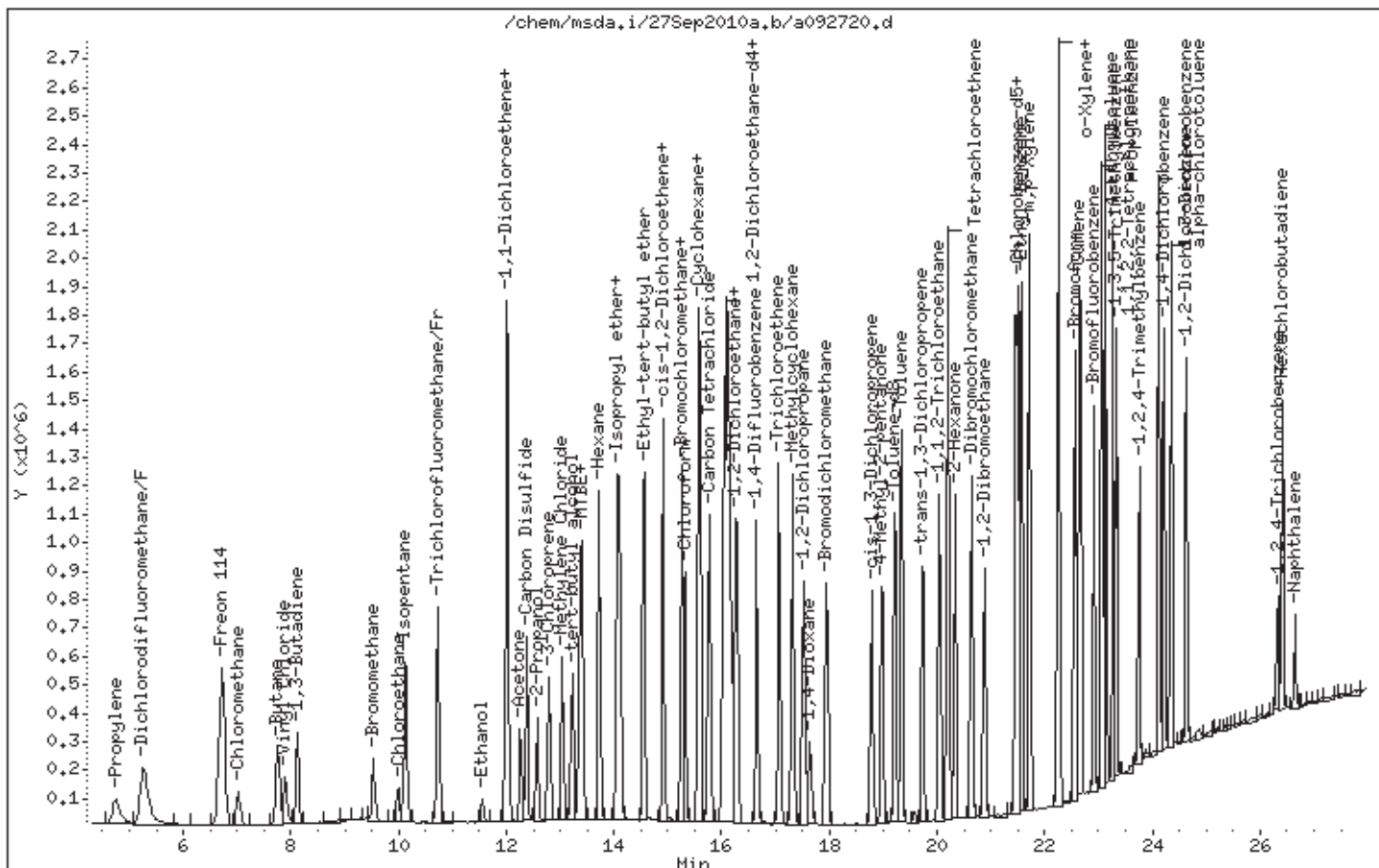
Instrument: msda.i

Sample Info: 50mL #1936-341

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: LCS

Lab ID#: 1009208-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092719sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 08:44 PM

Compound	%Recovery
Vinyl Chloride	96
1,1-Dichloroethene	87
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	100
1,1,1-Trichloroethane	100
Benzene	95
1,2-Dichloroethane	92
Trichloroethene	92
Toluene	91
1,1,2-Trichloroethane	94
Tetrachloroethene	89
Ethyl Benzene	104
m,p-Xylene	104
o-Xylene	106
1,1,2,2-Tetrachloroethane	99
trans-1,2-Dichloroethene	101
Methyl tert-butyl ether	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS Client Smp ID: LCS
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCS
 SpikeList File: HILO.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	9.665	96.65	70-130
3 Freon 114	10.000	9.904	99.04	70-130
4 Chloromethane	10.000	9.082	90.82	70-130
5 Vinyl Chloride	10.000	9.599	95.99	70-130
9 Chloroethane	10.000	9.281	92.81	70-130
12 1,1-Dichloroethene	10.000	8.732	87.32	70-130
21 MTBE	10.000	10.497	104.97	70-130
22 trans-1,2-Dichloro	10.000	10.148	101.48	70-130
25 1,1-Dichloroethane	10.000	9.321	93.21	70-130
29 cis-1,2-Dichloroet	10.000	10.016	100.16	70-130
32 Chloroform	10.000	9.213	92.13	70-130
34 1,1,1-Trichloroeth	10.000	9.981	99.81	70-130
35 Carbon Tetrachlori	10.000	10.327	103.27	70-130
36 Benzene	10.000	9.462	94.63	70-130
38 1,2-Dichloroethane	10.000	9.206	92.06	70-130
41 Trichloroethene	10.000	9.199	91.99	70-130
48 Toluene	10.000	9.094	90.94	70-130
50 1,1,2-Trichloroeth	10.000	9.446	94.46	70-130
51 Tetrachloroethene	10.000	8.926	89.26	70-130
55 1,2-Dibromoethane	10.000	10.385	103.85	70-130
58 Ethyl Benzene	10.000	10.451	104.51	70-130
59 m,p-Xylene	10.000	10.426	104.26	70-130
61 o-Xylene	10.000	10.625	106.25	70-130
67 1,1,2,2-Tetrachlor	10.000	9.868	98.68	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	9.390	93.90	70-130
\$ 47 Toluene-d8	10.000	10.160	101.60	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 66 Bromofluorobenzene	10.000	10.504	105.04	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092719sim.d
 Lab Smp Id: LCS Client Smp ID: LCS
 Inj Date : 27-SEP-2010 20:44
 Operator : ea Inst ID: msda.i
 Smp Info : 50mL #1936-341
 Misc Info : 10ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
 Meth Date : 27-Sep-2010 20:33 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
 Als bottle: 3 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT09.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	355635	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	274898				0.00- 30.00	77.30
15.269	15.269	(1.000)	49	498740				0.00- 30.00	140.24

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1499412	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	240345				0.00- 46.02	16.03

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.470	21.470	(1.000)	117	1384602	10.0000			80.00- 120.00	100.00
21.470	21.470	(1.000)	82	743271				0.00- 30.00	53.68

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.084	16.084	(1.053)	65	494280	9.39003	9.390		80.00- 120.00	100.00
16.084	16.084	(1.053)	67	295061				0.00- 30.00	59.70

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1357888	10.1601	10.160		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	156751				0.00- 41.54	11.54

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	902820			36.40-	96.40	66.49

\$ 66 Bromofluorobenzene									
						CAS #: 460-00-4			
22.922	22.922	(1.068)	174	733014	10.5038	10.504	80.00-	120.00	100.00
22.922	22.922	(1.068)	95	955907			99.33-	159.33	130.41
22.922	22.922	(1.068)	176	710146			66.67-	126.67	96.88

1 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
5.265	5.265	(0.345)	85	1426457	9.66511	9.665	80.00-	120.00	100.00
5.265	5.265	(0.345)	87	461391			0.00-	30.00	32.35

3 Freon 114									
						CAS #: 76-14-2			
6.736	6.736	(0.441)	135	932837	9.90379	9.904	80.00-	120.00	100.00
6.736	6.736	(0.441)	137	297871			0.00-	30.00	31.93

4 Chloromethane									
						CAS #: 74-87-3			
7.025	7.025	(0.460)	50	415204	9.08232	9.082	80.00-	120.00	100.00
7.025	7.025	(0.460)	52	135162			0.00-	30.00	32.55

5 Vinyl Chloride									
						CAS #: 75-01-4			
7.897	7.897	(0.517)	62	527787	9.59903	9.599	80.00-	120.00	100.00
7.897	7.897	(0.517)	64	168257			1.91-	61.91	31.88

9 Chloroethane									
						CAS #: 75-00-3			
9.991	9.991	(0.654)	64	208977	9.28123	9.281	80.00-	120.00	100.00
9.991	9.991	(0.654)	66	70165			0.00-	30.00	33.58

12 1,1-Dichloroethene									
						CAS #: 75-35-4			
12.043	12.043	(0.789)	98	295834	8.73177	8.732	80.00-	120.00	100.00
12.023	12.023	(0.787)	61	694181			0.00-	30.00	234.65
12.023	12.023	(0.787)	96	461495			0.00-	30.00	156.00

22 trans-1,2-Dichloroethene									
						CAS #: 156-60-5			
13.435	13.435	(0.880)	98	376048	10.1484	10.148	80.00-	120.00	100.00
13.408	13.408	(0.878)	61	771082			0.00-	30.00	205.05
13.435	13.435	(0.880)	96	589079			0.00-	30.00	156.65

21 MTBE									
						CAS #: 1634-04-4			
13.380	13.380	(0.876)	73	1520307	10.4968	10.497	80.00-	120.00	100.00
13.380	13.380	(0.876)	57	315480			0.00-	30.00	20.75
13.380	13.380	(0.876)	41	294945			0.00-	30.00	19.40

25 1,1-Dichloroethane									
						CAS #: 75-34-3			
14.122	14.122	(0.925)	63	945574	9.32126	9.321	80.00-	120.00	100.00
14.122	14.122	(0.925)	65	304652			2.21-	62.21	32.22

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	372429	10.0164	10.016	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	698829			0.00- 30.00	187.64	
14.928	14.928	(0.978)	96	586464			0.00- 30.00	157.47	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1119912	9.21329	9.213	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	730239			35.16- 95.16	65.21	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	1183027	9.98122	9.981	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	763193			34.55- 94.55	64.51	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.762	15.793	(1.032)	119	1141836	10.3274	10.327	80.00- 120.00	100.00	
15.762	15.762	(1.032)	117	1177013			73.03- 133.03	103.08	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	1810542	9.46256	9.462	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	421399			0.00- 30.00	23.27	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	721511	9.20608	9.206	80.00- 120.00	100.00	
16.194	16.194	(0.972)	64	230690			0.00- 30.00	31.97	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	794882	9.19940	9.199	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	772487			67.10- 127.10	97.18	
17.073	17.073	(1.025)	97	499278			32.82- 92.82	62.81	

48 Toluene CAS #: 108-88-3									
19.337	19.337	(1.161)	91	1904901	9.09376	9.094	80.00- 120.00	100.00	
19.337	19.337	(1.161)	92	1143789			29.94- 89.94	60.04	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	749638	9.44568	9.446	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	472006			32.89- 92.89	62.96	
20.050	20.050	(0.934)	83	636965			54.93- 114.93	84.97	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	1012525	8.92641	8.926	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	726901			41.45- 101.45	71.79	
20.212	20.212	(0.941)	131	702340			39.00- 99.00	69.37	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.863	(0.972)	107	1186615	10.3847	10.385	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	1121975			64.21- 124.21	94.55	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	772949	10.4511	10.451	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	2483653			0.00- 30.00	321.32	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	818315	10.4264	10.426	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	1646986			0.00- 30.00	201.27	

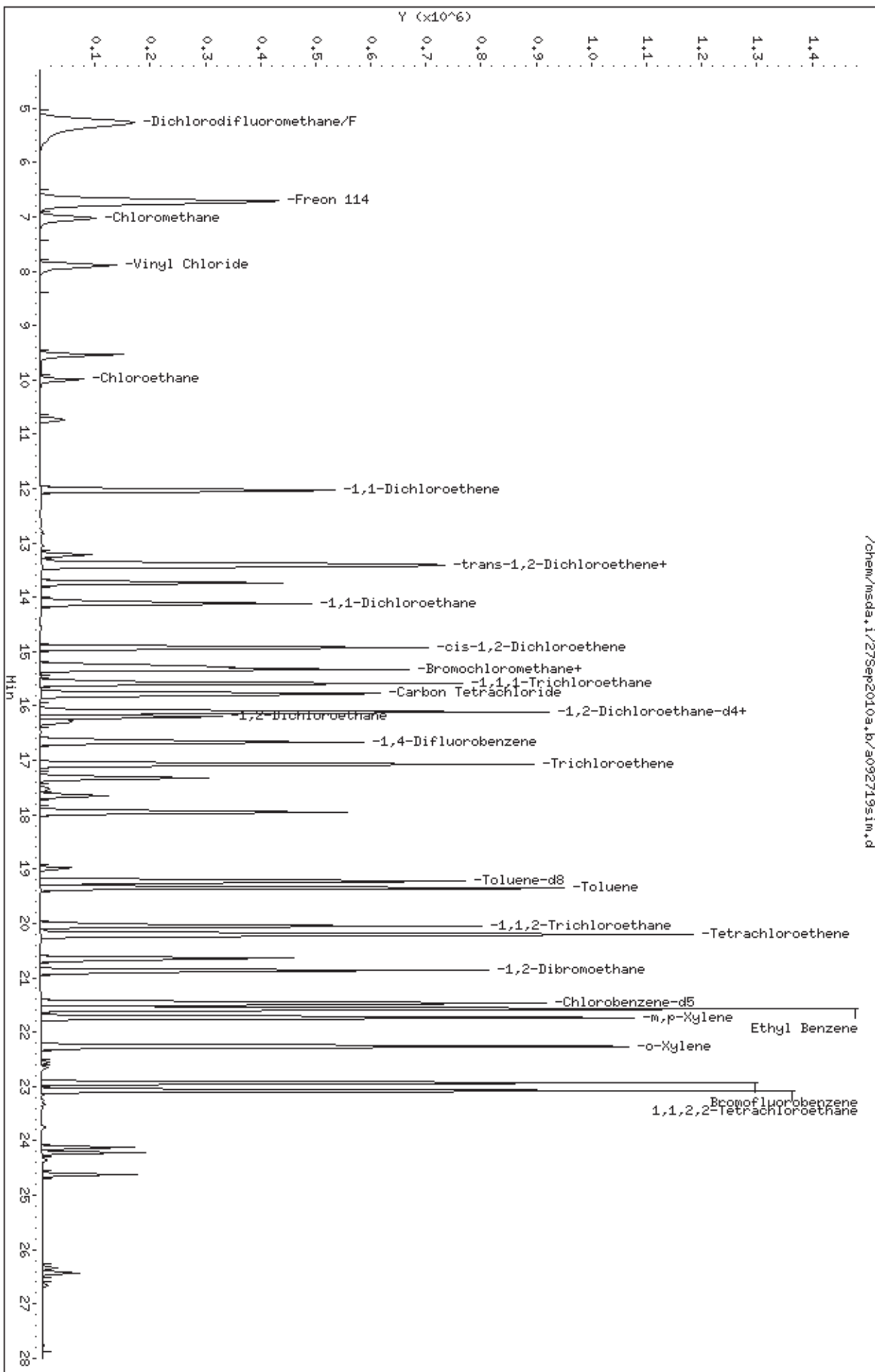
61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	772423	10.6249	10.625	80.00- 120.00	100.00	
22.241	22.241	(1.036)	91	1645990			182.76- 242.76	213.09	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.076	23.076	(1.075)	83	1634728	9.86814	9.868	80.00- 120.00	100.00	
23.076	23.076	(1.075)	85	1058268			34.68- 94.68	64.74	

Data File: /chem/msda.i/27Sep2010a.k/a092719s.im.d
Date: 27-SEP-2010 20:44
Client ID: LCS
Sample Info: 50mL #1936-341

Column phase: RTX-624

Instrument: msda.i
Operator: ea
Column diameter: 0.53



Client Sample ID: LCSD

Lab ID#: 1009208-13BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092720sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/27/10 09:19 PM

Compound	%Recovery
Vinyl Chloride	96
1,1-Dichloroethene	88
1,1-Dichloroethane	94
cis-1,2-Dichloroethene	101
1,1,1-Trichloroethane	100
Benzene	95
1,2-Dichloroethane	93
Trichloroethene	93
Toluene	92
1,1,2-Trichloroethane	94
Tetrachloroethene	90
Ethyl Benzene	106
m,p-Xylene	106
o-Xylene	108
1,1,2,2-Tetrachloroethane	99
trans-1,2-Dichloroethene	102
Methyl tert-butyl ether	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCSD Client Smp ID: LCSD
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: HILO.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	9.590	95.90	70-130
3 Freon 114	10.000	9.913	99.13	70-130
4 Chloromethane	10.000	9.246	92.46	70-130
5 Vinyl Chloride	10.000	9.557	95.57	70-130
9 Chloroethane	10.000	10.518	105.18	70-130
12 1,1-Dichloroethene	10.000	8.797	87.97	70-130
21 MTBE	10.000	10.506	105.06	70-130
22 trans-1,2-Dichloro	10.000	10.247	102.47	70-130
25 1,1-Dichloroethane	10.000	9.379	93.79	70-130
29 cis-1,2-Dichloroet	10.000	10.096	100.96	70-130
32 Chloroform	10.000	9.278	92.78	70-130
34 1,1,1-Trichloroeth	10.000	9.996	99.96	70-130
35 Carbon Tetrachlori	10.000	10.387	103.87	70-130
36 Benzene	10.000	9.470	94.70	70-130
38 1,2-Dichloroethane	10.000	9.277	92.77	70-130
41 Trichloroethene	10.000	9.277	92.77	70-130
48 Toluene	10.000	9.164	91.64	70-130
50 1,1,2-Trichloroeth	10.000	9.454	94.54	70-130
51 Tetrachloroethene	10.000	8.953	89.53	70-130
55 1,2-Dibromoethane	10.000	10.481	104.81	70-130
58 Ethyl Benzene	10.000	10.578	105.78	70-130
59 m,p-Xylene	10.000	10.642	106.42	70-130
61 o-Xylene	10.000	10.786	107.86	70-130
67 1,1,2,2-Tetrachlor	10.000	9.889	98.89	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	9.309	93.09	70-130
\$ 47 Toluene-d8	10.000	10.146	101.46	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 66 Bromofluorobenzene	10.000	10.568	105.68	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/27Sep2010a.b/a092720sim.d
 Lab Smp Id: LCSD Client Smp ID: LCSD
 Inj Date : 27-SEP-2010 21:19
 Operator : ea Inst ID: msda.i
 Smp Info : 50mL #1936-341
 Misc Info : 10ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/27Sep2010a.b/a1010915a.m/a10s0915a.m
 Meth Date : 27-Sep-2010 20:33 croush Quant Type: ISTD
 Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
 Als bottle: 3 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT09.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5									
15.269	15.269	(1.000)	130	362521	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	281105				0.00- 30.00	77.54
15.269	15.269	(1.000)	49	506871				0.00- 30.00	139.82

* 40 1,4-Difluorobenzene CAS #: 540-36-3									
16.661	16.661	(1.000)	114	1520604	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	243516				0.00- 46.02	16.01

* 56 Chlorobenzene-d5 CAS #: 3114-55-4									
21.470	21.470	(1.000)	117	1408249	10.0000			80.00- 120.00	100.00
21.470	21.470	(1.000)	82	746870				0.00- 30.00	53.04

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.085	16.084	(1.053)	65	499509	9.30912	9.309		80.00- 120.00	100.00
16.085	16.084	(1.053)	67	298547				0.00- 30.00	59.77

\$ 47 Toluene-d8 CAS #: 2037-26-5									
19.225	19.225	(1.154)	98	1375143	10.1458	10.146		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	158088				0.00- 41.54	11.50

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	912485			36.40-	96.40	66.36

\$ 66 Bromofluorobenzene									
									CAS #: 460-00-4
22.922	22.922	(1.068)	174	750053	10.5675	10.568	80.00-	120.00	100.00
22.922	22.922	(1.068)	95	977651			99.33-	159.33	130.34
22.922	22.922	(1.068)	176	724146			66.67-	126.67	96.55

1 Dichlorodifluoromethane/Fr12									
									CAS #: 75-71-8
5.266	5.265	(0.345)	85	1442817	9.59027	9.590	80.00-	120.00	100.00
5.266	5.265	(0.345)	87	467006			0.00-	30.00	32.37

3 Freon 114									
									CAS #: 76-14-2
6.712	6.736	(0.440)	135	951749	9.91264	9.913	80.00-	120.00	100.00
6.736	6.736	(0.441)	137	303658			0.00-	30.00	31.91

4 Chloromethane									
									CAS #: 74-87-3
7.025	7.025	(0.460)	50	430869	9.24596	9.246	80.00-	120.00	100.00
7.025	7.025	(0.460)	52	137820			0.00-	30.00	31.99

5 Vinyl Chloride									
									CAS #: 75-01-4
7.897	7.897	(0.517)	62	535656	9.55710	9.557	80.00-	120.00	100.00
7.897	7.897	(0.517)	64	170918			1.91-	61.91	31.91

9 Chloroethane									
									CAS #: 75-00-3
9.991	9.991	(0.654)	64	241408	10.5179	10.518	80.00-	120.00	100.00
9.991	9.991	(0.654)	66	79360			0.00-	30.00	32.87

12 1,1-Dichloroethene									
									CAS #: 75-35-4
12.023	12.043	(0.787)	98	303808	8.79680	8.797	80.00-	120.00	100.00
12.023	12.023	(0.787)	61	709484			0.00-	30.00	233.53
12.023	12.023	(0.787)	96	473700			0.00-	30.00	155.92

22 trans-1,2-Dichloroethene									
									CAS #: 156-60-5
13.435	13.435	(0.880)	98	387040	10.2467	10.247	80.00-	120.00	100.00
13.408	13.408	(0.878)	61	785228			0.00-	30.00	202.88
13.435	13.435	(0.880)	96	604772			0.00-	30.00	156.26

21 MTBE									
									CAS #: 1634-04-4
13.380	13.380	(0.876)	73	1551053	10.5057	10.506	80.00-	120.00	100.00
13.380	13.380	(0.876)	57	321010			0.00-	30.00	20.70
13.380	13.380	(0.876)	41	297536			0.00-	30.00	19.18

25 1,1-Dichloroethane									
									CAS #: 75-34-3
14.122	14.122	(0.925)	63	969833	9.37880	9.379	80.00-	120.00	100.00
14.122	14.122	(0.925)	65	312100			2.21-	62.21	32.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
				ON-COL (PPBV)	FINAL (PPBV)		
==	=====	=====	=====	=====	=====	=====	=====

29	cis-1,2-Dichloroethene					CAS #: 156-59-2	
14.928	14.928 (0.978)	98	382651	10.0959	10.096	80.00- 120.00	100.00
14.928	14.928 (0.978)	61	716174			0.00- 30.00	187.16
14.928	14.928 (0.978)	96	602779			0.00- 30.00	157.53

32	Chloroform					CAS #: 67-66-3	
15.331	15.331 (1.004)	83	1149667	9.27842	9.278	80.00- 120.00	100.00
15.331	15.331 (1.004)	85	748900			35.16- 95.16	65.14

34	1,1,1-Trichloroethane					CAS #: 71-55-6	
15.577	15.577 (1.020)	97	1207754	9.99628	9.996	80.00- 120.00	100.00
15.577	15.577 (1.020)	99	780596			34.55- 94.55	64.63

35	Carbon Tetrachloride					CAS #: 56-23-5	
15.762	15.793 (1.032)	119	1170627	10.3867	10.387	80.00- 120.00	100.00
15.762	15.762 (1.032)	117	1210775			73.03- 133.03	103.43

36	Benzene					CAS #: 71-43-2	
16.112	16.112 (0.967)	78	1837613	9.47020	9.470	80.00- 120.00	100.00
16.112	16.112 (0.967)	77	427533			0.00- 30.00	23.27

38	1,2-Dichloroethane					CAS #: 107-06-2	
16.194	16.194 (0.972)	62	737365	9.27725	9.277	80.00- 120.00	100.00
16.194	16.194 (0.972)	64	235549			0.00- 30.00	31.94

41	Trichloroethene					CAS #: 79-01-6	
17.073	17.073 (1.025)	130	812897	9.27678	9.277	80.00- 120.00	100.00
17.073	17.073 (1.025)	95	788506			67.10- 127.10	97.00
17.073	17.073 (1.025)	97	509820			32.82- 92.82	62.72

48	Toluene					CAS #: 108-88-3	
19.337	19.337 (1.161)	91	1946654	9.16357	9.164	80.00- 120.00	100.00
19.337	19.337 (1.161)	92	1168031			29.94- 89.94	60.00

50	1,1,2-Trichloroethane					CAS #: 79-00-5	
20.050	20.050 (0.934)	97	763107	9.45394	9.454	80.00- 120.00	100.00
20.050	20.050 (0.934)	99	479825			32.89- 92.89	62.88
20.050	20.050 (0.934)	83	648822			54.93- 114.93	85.02

51	Tetrachloroethene					CAS #: 127-18-4	
20.212	20.212 (0.941)	166	1032874	8.95290	8.953	80.00- 120.00	100.00
20.212	20.212 (0.941)	129	739353			41.45- 101.45	71.58
20.212	20.212 (0.941)	131	713864			39.00- 99.00	69.11

55	1,2-Dibromoethane					CAS #: 106-93-4	
20.863	20.863 (0.972)	107	1218081	10.4810	10.481	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL	FINAL			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
55 1,2-Dibromoethane (continued)									
20.863	20.863	(0.972)	109	1151916			64.21- 124.21	94.57	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	795704	10.5781	10.578	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	2549188			0.00- 30.00	320.37	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	849540	10.6425	10.642	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	1702727			0.00- 30.00	200.43	

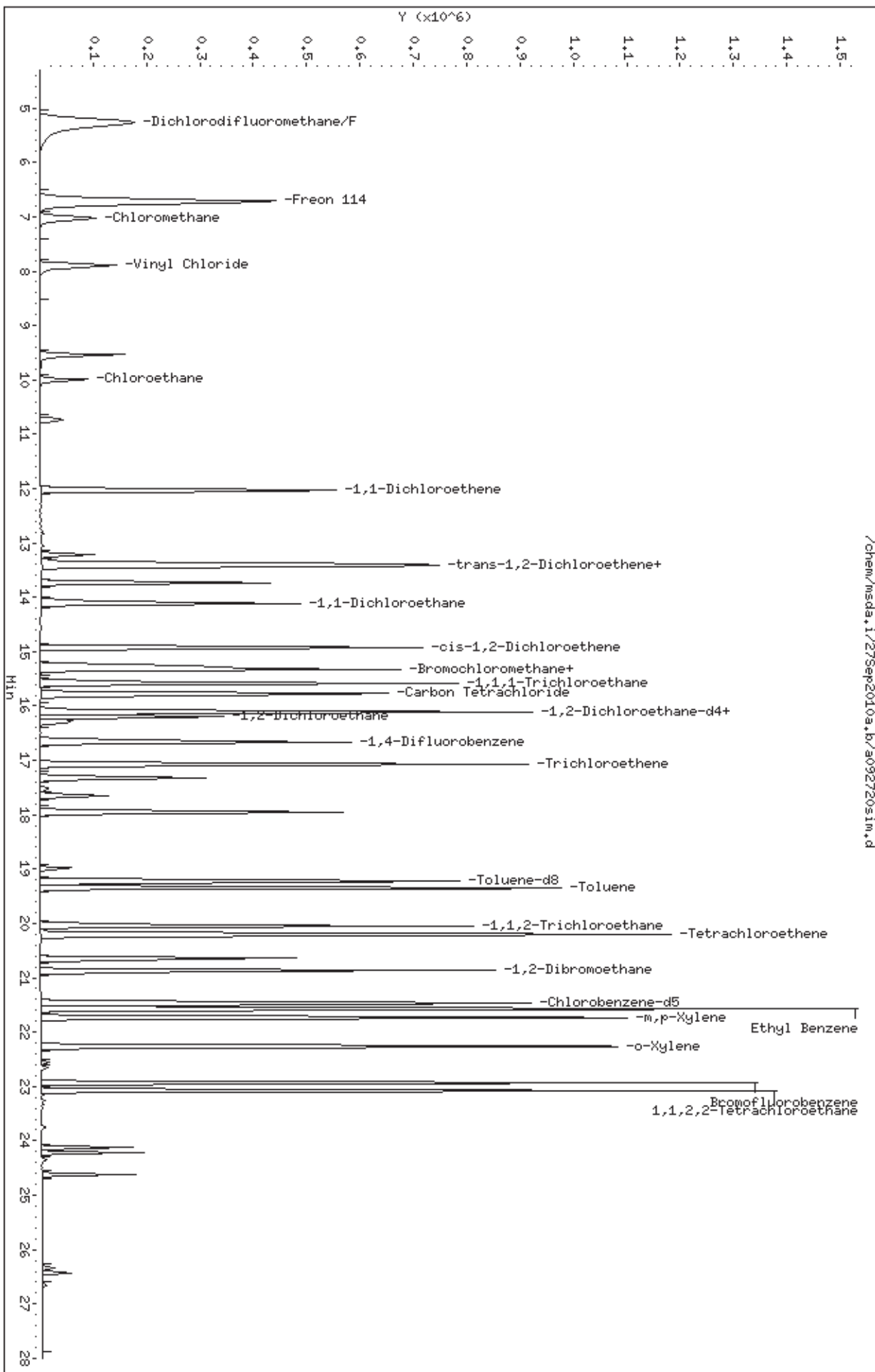
61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	797497	10.7856	10.786	80.00- 120.00	100.00	
22.241	22.241	(1.036)	91	1700259			182.76- 242.76	213.20	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.077	23.076	(1.075)	83	1666144	9.88890	9.889	80.00- 120.00	100.00	
23.077	23.076	(1.075)	85	1076295			34.68- 94.68	64.60	

Data File: /chem/msda.i/27Sep2010a.k/a092720s.im.d
Date: 27-SEP-2010 21:19
Client ID: LCSD
Sample Info: 50mL #1936-341

Column phase: RTX-624

Instrument: msda.i
Operator: ea
Column diameter: 0.53



Client Sample ID: LCS

Lab ID#: 1009208-13C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 08:54 PM

Compound	%Recovery
Chloromethane	84
1,3-Butadiene	94
Bromomethane	105
Chloroethane	98
Freon 11	95
Ethanol	85
Freon 113	93
Acetone	101
2-Propanol	101
Carbon Disulfide	106
3-Chloropropene	113
Methylene Chloride	88
Hexane	94
2-Butanone (Methyl Ethyl Ketone)	97
Tetrahydrofuran	93
Chloroform	96
Cyclohexane	99
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	87
Heptane	92
1,2-Dichloropropane	96
1,4-Dioxane	100
Bromodichloromethane	98
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	86
trans-1,3-Dichloropropene	100
2-Hexanone	100
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	104
Chlorobenzene	100
Styrene	100
Bromoform	116
Cumene	103
Propylbenzene	105
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	99

Client Sample ID: LCS

Lab ID#: 1009208-13C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 08:54 PM

Compound	%Recovery
1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	74

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: lcs Client Smp ID: lcs
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCS
 SpikeList File: AT09.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	10.000	9.319	93.19	70-130
2 Propylene	10.000	8.692	86.92	60-140
6 Freon 114	10.000	9.318	93.18	70-130
7 Chloromethane	10.000	8.372	83.72	70-130
10 Vinyl Chloride	10.000	9.560	95.60	70-130
11 1,3-Butadiene	10.000	9.351	93.51	60-140
12 Bromomethane	10.000	10.528	105.28	70-130
13 Chloroethane	10.000	9.779	97.79	70-130
16 Trichlorofluoromet	10.000	9.462	94.62	70-130
20 Ethanol	10.000	8.475	84.75	60-140
22 Freon 113	10.000	9.277	92.77	70-130
23 1,1-Dichloroethene	10.000	9.291	92.91	70-130
24 Acetone	10.000	10.121	101.21	60-140
26 Carbon Disulfide	10.000	10.574	105.74	60-140
27 2-Propanol	10.000	10.130	101.30	60-140
28 3-Chloroprene	10.000	11.338	113.38	60-140
33 Methylene Chloride	10.000	8.809	88.09	70-130
35 MTBE	10.000	9.967	99.67	60-140
36 trans-1,2-Dichloro	10.000	10.163	101.63	60-140
40 Hexane	10.000	9.444	94.44	60-140
42 1,1-Dichloroethane	10.000	8.876	88.76	70-130
44 Vinyl Acetate	10.000	10.696	106.97	60-140
47 cis-1,2-Dichloroet	10.000	9.852	98.52	70-130
48 2-Butanone	10.000	9.703	97.03	60-140
51 Tetrahydrofuran	10.000	9.342	93.43	60-140
53 Chloroform	10.000	9.575	95.75	70-130
55 Cyclohexane	10.000	9.928	99.28	60-140
56 1,1,1-Trichloroeth	10.000	9.914	99.14	70-130
57 Carbon Tetrachlori	10.000	9.822	98.23	70-130
59 2,2,4-Trimethylpen	10.000	8.725	87.25	60-140
60 Benzene	10.000	9.447	94.47	70-130
64 Heptane	10.000	9.236	92.36	60-140
63 1,2-Dichloroethane	10.000	8.646	86.46	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 Trichloroethene	10.000	9.983	99.83	70-130
72 1,2-Dichloropropan	10.000	9.635	96.35	70-130
74 1,4-Dioxane	10.000	9.976	99.76	60-140
76 Bromodichlorometha	10.000	9.764	97.64	60-140
77 cis-1,3-Dichloropr	10.000	10.038	100.38	70-130
78 4-Methyl-2-pentano	10.000	8.577	85.77	60-140
81 Toluene	10.000	9.057	90.57	70-130
82 trans-1,3-Dichloro	10.000	10.001	100.01	70-130
83 1,1,2-Trichloroeth	10.000	9.966	99.66	70-130
85 2-Hexanone	10.000	10.030	100.30	60-140
84 Tetrachloroethene	10.000	9.878	98.78	70-130
86 Dibromochlorometha	10.000	10.996	109.97	60-140
87 1,2-Dibromoethane	10.000	10.417	104.17	70-130
89 Chlorobenzene	10.000	10.059	100.59	70-130
91 Ethyl Benzene	10.000	10.322	103.22	70-130
93 m,p-Xylene	10.000	10.571	105.71	70-130
94 o-Xylene	10.000	10.409	104.09	70-130
95 Styrene	10.000	10.017	100.17	70-130
97 Bromoform	10.000	11.586	115.86	60-140
98 Cumene	10.000	10.313	103.13	60-140
103 1,1,2,2-Tetrachlor	10.000	10.578	105.78	70-130
104 Propylbenzene	10.000	10.543	105.43	70-130
107 4-Ethyltoluene	10.000	10.727	107.27	60-140
109 1,3,5-Trimethylben	10.000	10.685	106.85	70-130
112 1,2,4-Trimethylben	10.000	10.864	108.64	70-130
115 1,3-Dichlorobenzen	10.000	9.875	98.75	70-130
117 1,4-Dichlorobenzen	10.000	9.606	96.06	70-130
118 alpha-chlorotoluen	10.000	10.412	104.12	70-130
121 1,2-Dichlorobenzen	10.000	9.922	99.22	70-130
126 1,2,4-Trichloroben	10.000	7.851	78.51	70-130
128 Hexachlorobutadien	10.000	7.424	74.24	70-130
129 Naphthalene	10.000	7.709	77.09	60-140
14 Isopentane	10.000	10.218	102.18	60-140
9 Butane	10.000	9.312	93.12	60-140
69 Methylcyclohexane	10.000	10.231	102.31	60-140
34 tert-butyl alcohol	10.000	10.385	103.85	60-140
41 Isopropyl ether	10.000	9.695	96.95	60-140
46 Ethyl-tert-butyl e	10.000	10.422	104.22	60-140
62 tert-amyl methyl e	10.000	11.106	111.06	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	9.268	92.68	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 80 Toluene-d8	10.000	9.564	95.64	70-130
\$ 100 Bromofluorobenzene	10.000	10.336	103.36	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092803.d
Lab Smp Id: lcs Client Smp ID: lcs
Inj Date : 28-SEP-2010 20:54
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-341
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m
Meth Date : 28-Sep-2010 20:40 croush Quant Type: ISTD
Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5								
15.255	15.255	(1.000)	130	346141	10.0000		80.00- 120.00	100.00
15.255	15.255	(1.000)	128	270903			48.35- 108.35	78.26
15.255	15.255	(1.000)	49	458211			89.31- 149.31	132.38

* 66 1,4-Difluorobenzene CAS #: 540-36-3								
16.647	16.647	(1.000)	114	1445906	10.0000		80.00- 120.00	100.00
16.647	16.647	(1.000)	88	233905			0.00- 46.24	16.18

* 88 Chlorobenzene-d5 CAS #: 3114-55-4								
21.456	21.456	(1.000)	117	1333882	10.0000		80.00- 120.00	100.00
21.456	21.456	(1.000)	82	736810			25.95- 85.95	55.24

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.098	16.098	(1.055)	65	466269	9.26758	9.268	80.00- 120.00	100.00
16.098	16.098	(1.055)	67	269377			0.00- 30.00	57.77

\$ 80 Toluene-d8 CAS #: 2037-26-5								
19.211	19.211	(1.154)	98	1408405	9.56371	9.564	80.00- 120.00	100.00
19.211	19.211	(1.154)	70	153793			0.00- 30.00	10.92

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 80 Toluene-d8 (continued)									
19.211	19.211	(1.154)	100	954754			37.86-	97.86	67.79

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	704413	10.3356	10.336	80.00-	120.00	100.00
22.908	22.908	(1.068)	95	909216			98.89-	158.89	129.07
22.934	22.934	(1.069)	176	683966			67.15-	127.15	97.10

2 Propylene CAS #: 115-07-1									
4.745	4.770	(0.311)	41	293934	8.69213	8.692	80.00-	120.00	100.00
4.745	4.770	(0.311)	42	197677			0.00-	30.00	67.25
4.745	4.770	(0.311)	39	207537			0.00-	30.00	70.61

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.252	5.276	(0.344)	85	1295812	9.31935	9.319	80.00-	120.00	100.00
5.252	5.276	(0.344)	87	420297			2.61-	62.61	32.44

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	857550	9.31779	9.318	80.00-	120.00	100.00
6.722	6.746	(0.441)	137	274712			0.00-	30.00	32.03

7 Chloromethane CAS #: 74-87-3									
7.011	7.035	(0.460)	50	363208	8.37225	8.372	80.00-	120.00	100.00
7.011	7.035	(0.460)	52	120717			0.00-	30.00	33.24

9 Butane CAS #: 106-97-8									
7.761	7.761	(0.509)	58	94282	9.31217	9.312	80.00-	120.00	100.00
7.761	7.761	(0.509)	43	600971			0.00-	30.00	637.42

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	485149	9.56000	9.560	80.00-	120.00	100.00
7.883	7.883	(0.517)	64	155061			2.21-	62.21	31.96

11 1,3-Butadiene CAS #: 106-99-0									
8.109	8.126	(0.532)	54	328579	9.35112	9.351	80.00-	120.00	100.00
8.109	8.126	(0.532)	39	305150			0.00-	30.00	92.87

12 Bromomethane CAS #: 74-83-9									
9.522	9.542	(0.624)	94	288253	10.5282	10.528	80.00-	120.00	100.00
9.522	9.542	(0.624)	96	270869			62.96-	122.96	93.97

13 Chloroethane CAS #: 75-00-3									
9.998	9.998	(0.655)	64	222977	9.77920	9.779	80.00-	120.00	100.00
9.998	9.998	(0.655)	66	75453			0.00-	30.00	33.84

14 Isopentane CAS #: 78-78-4									
10.123	10.143	(0.664)	57	385052	10.2175	10.218	80.00-	120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
				ON-COL (PPBV)	FINAL (PPBV)		
==	=====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)							
10.123	10.143 (0.664)	43	528223			0.00- 30.00	137.18
10.123	10.143 (0.664)	42	463743			0.00- 30.00	120.44

16 Trichlorofluoromethane/Fr11				CAS #: 75-69-4			
10.724	10.724 (0.703)	101	1223598	9.46193	9.462	80.00- 120.00	100.00
10.724	10.724 (0.703)	103	798202			35.14- 95.14	65.23

20 Ethanol				CAS #: 64-17-5			
11.553	11.532 (0.757)	45	131433	8.47499	8.475	80.00- 120.00	100.00
11.553	11.532 (0.757)	43	27229			0.00- 30.00	20.72
11.553	11.532 (0.757)	46	53435			0.00- 30.00	40.66

23 1,1-Dichloroethene				CAS #: 75-35-4			
12.030	12.030 (0.789)	98	280146	9.29090	9.291	80.00- 120.00	100.00
12.030	12.030 (0.789)	61	651403			0.00- 30.00	232.52
12.030	12.030 (0.789)	96	434203			0.00- 30.00	154.99

22 Freon 113				CAS #: 76-13-1			
12.009	12.009 (0.787)	151	753618	9.27676	9.277	80.00- 120.00	100.00
12.009	12.009 (0.787)	153	484776			34.67- 94.67	64.33
12.009	12.009 (0.787)	101	978942			0.00- 30.00	129.90

24 Acetone				CAS #: 67-64-1			
12.258	12.258 (0.804)	58	208185	10.1215	10.121	80.00- 120.00	100.00
12.258	12.258 (0.804)	43	579792			0.00- 30.00	278.50

26 Carbon Disulfide				CAS #: 75-15-0			
12.382	12.382 (0.812)	76	1436437	10.5744	10.574	80.00- 120.00	100.00

28 3-Chloroprene				CAS #: 107-05-1			
12.776	12.776 (0.837)	76	193948	11.3379	11.338	80.00- 120.00	100.00
12.776	12.776 (0.837)	41	462281			0.00- 30.00	238.35

27 2-Propanol				CAS #: 67-63-0			
12.569	12.569 (0.824)	45	786674	10.1300	10.130	80.00- 120.00	100.00
12.569	12.569 (0.824)	43	125268			0.00- 30.00	15.92
12.569	12.569 (0.824)	59	28108			0.00- 30.00	3.57

33 Methylene Chloride				CAS #: 75-09-2			
13.037	13.037 (0.855)	84	401512	8.80885	8.809	80.00- 120.00	100.00
13.037	13.037 (0.855)	49	445338			0.00- 30.00	110.92
13.037	13.037 (0.855)	51	137778			0.00- 30.00	34.31

34 tert-butyl alcohol				CAS #: 75-65-0			
13.229	13.202 (0.867)	59	936443	10.3852	10.385	80.00- 120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
34 tert-butyl alcohol (continued)									
13.229	13.202	(0.867)	41	197781			0.00-	30.00	21.12
13.229	13.202	(0.867)	57	95333			0.00-	30.00	10.18

35 MTBE CAS #: 1634-04-4									
13.367	13.367	(0.876)	73	1500300	9.96743	9.967	80.00-	120.00	100.00
13.367	13.367	(0.876)	57	311894			0.00-	30.00	20.79
13.367	13.367	(0.876)	41	278062			0.00-	30.00	18.53

36 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.421	13.421	(0.880)	98	355298	10.1627	10.163	80.00-	120.00	100.00
13.421	13.421	(0.880)	61	719461			0.00-	30.00	202.50
13.421	13.421	(0.880)	96	555567			0.00-	30.00	156.37

40 Hexane CAS #: 110-54-3									
13.723	13.723	(0.900)	57	793752	9.44448	9.444	80.00-	120.00	100.00
13.723	13.723	(0.900)	43	474539			0.00-	30.00	59.78
13.723	13.723	(0.900)	86	162171			0.00-	30.00	20.43

41 Isopropyl ether CAS #: 108-20-3									
14.053	14.053	(0.921)	45	1592500	9.69489	9.695	80.00-	120.00	100.00
14.053	14.053	(0.921)	87	527815			0.00-	30.00	33.14
14.053	14.053	(0.921)	59	201199			0.00-	30.00	12.63

42 1,1-Dichloroethane CAS #: 75-34-3									
14.108	14.108	(0.925)	63	865798	8.87583	8.876	80.00-	120.00	100.00
14.108	14.108	(0.925)	65	276536			0.00-	30.00	31.94

44 Vinyl Acetate CAS #: 108-05-4									
14.135	14.135	(0.927)	86	143857	10.6966	10.696	80.00-	120.00	100.00
14.135	14.108	(0.927)	42	155179			0.00-	30.00	107.87
14.108	14.108	(0.925)	43	1863212			0.00-	30.00	1295.18

46 Ethyl-tert-butyl ether CAS #: 637-92-3									
14.562	14.562	(0.955)	59	1635391	10.4220	10.422	80.00-	120.00	100.00
14.562	14.562	(0.955)	87	771773			0.00-	30.00	47.19
14.562	14.541	(0.955)	41	268350			0.00-	30.00	16.41

47 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.915	14.915	(0.978)	98	349096	9.85156	9.852	80.00-	120.00	100.00
14.915	14.915	(0.978)	61	643862			0.00-	30.00	184.44
14.915	14.915	(0.978)	96	545310			128.12-	188.12	156.21

48 2-Butanone CAS #: 78-93-3									
14.915	14.915	(0.978)	72	275337	9.70269	9.703	80.00-	120.00	100.00
14.915	14.915	(0.978)	43	893213			0.00-	30.00	324.41

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
48 2-Butanone (continued)									
14.915	14.915	(0.978)	57	76745			0.00-	30.00	27.87

51 Tetrahydrofuran					CAS #: 109-99-9				
15.255	15.255	(1.000)	42	507837	9.34257	9.342	80.00-	120.00	100.00
15.255	15.255	(1.000)	71	241261			0.00-	30.00	47.51
15.255	15.255	(1.000)	72	260868			0.00-	30.00	51.37

53 Chloroform					CAS #: 67-66-3				
15.317	15.317	(1.004)	83	1057189	9.57464	9.575	80.00-	120.00	100.00
15.317	15.317	(1.004)	85	683221			0.00-	30.00	64.63

55 Cyclohexane					CAS #: 110-82-7				
15.594	15.594	(1.022)	84	791340	9.92845	9.928	80.00-	120.00	100.00
15.594	15.594	(1.022)	56	799724			0.00-	30.00	101.06
15.594	15.594	(1.022)	41	397709			0.00-	30.00	50.26

56 1,1,1-Trichloroethane					CAS #: 71-55-6				
15.564	15.563	(1.020)	97	1117920	9.91390	9.914	80.00-	120.00	100.00
15.564	15.563	(1.020)	99	716257			0.00-	30.00	64.07

57 Carbon Tetrachloride					CAS #: 56-23-5				
15.779	15.779	(1.034)	119	1128570	9.82254	9.822	80.00-	120.00	100.00
15.779	15.779	(1.034)	117	1170502			0.00-	30.00	103.72

59 2,2,4-Trimethylpentane					CAS #: 540-84-1				
16.043	16.043	(1.052)	56	795397	8.72504	8.725	80.00-	120.00	100.00
16.043	16.043	(1.052)	57	2379845			0.00-	30.00	299.20
16.043	16.043	(1.052)	41	559868			0.00-	30.00	70.39

60 Benzene					CAS #: 71-43-2				
16.098	16.098	(0.967)	78	1703549	9.44729	9.447	80.00-	120.00	100.00
16.098	16.098	(0.967)	77	392476			0.00-	30.00	23.04

62 tert-amyl methyl ether					CAS #: 994-05-8				
16.153	16.153	(0.970)	87	412666	11.1057	11.106	80.00-	120.00	100.00
16.153	16.126	(0.970)	73	1687058			0.00-	30.00	408.82
16.126	16.126	(0.969)	55	407774			0.00-	30.00	98.81

63 1,2-Dichloroethane					CAS #: 107-06-2				
16.208	16.208	(0.974)	62	663920	8.64616	8.646	80.00-	120.00	100.00
16.208	16.208	(0.974)	64	218509			0.00-	30.00	32.91

64 Heptane					CAS #: 142-82-5				
16.290	16.290	(0.979)	57	466698	9.23562	9.236	80.00-	120.00	100.00
16.290	16.290	(0.979)	100	203521			0.00-	30.00	43.61

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.290	16.290	(0.979)	43	802368			0.00-	30.00	171.92

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	776088	9.98277	9.983	80.00-	120.00	100.00
17.059	17.059	(1.025)	95	739740			0.00-	30.00	95.32
17.059	17.059	(1.025)	97	481880			0.00-	30.00	62.09

69 Methylcyclohexane CAS #: 108-87-2									
17.306	17.306	(1.040)	83	1050552	10.2312	10.231	80.00-	120.00	100.00
17.306	17.306	(1.040)	98	504940			0.00-	30.00	48.06
17.306	17.306	(1.040)	55	711181			0.00-	30.00	67.70

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	603442	9.63494	9.635	80.00-	120.00	100.00
17.526	17.526	(1.053)	62	425384			0.00-	30.00	70.49
17.526	17.526	(1.053)	41	286575			18.32-	78.32	47.49

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	407967	9.97590	9.976	80.00-	120.00	100.00
17.636	17.636	(1.059)	58	255023			0.00-	30.00	62.51
17.636	17.636	(1.059)	57	78361			0.00-	30.00	19.21

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	1111348	9.76351	9.764	80.00-	120.00	100.00
17.938	17.938	(1.078)	85	715105			0.00-	30.00	64.35

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.785	18.785	(1.128)	75	923259	10.0375	10.038	80.00-	120.00	100.00
18.785	18.785	(1.128)	77	292162			0.00-	30.00	31.64
18.785	18.785	(1.128)	39	360332			10.35-	70.35	39.03

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.965	18.965	(1.139)	43	1018736	8.57726	8.577	80.00-	120.00	100.00
18.965	18.965	(1.139)	58	451179			0.00-	30.00	44.29
18.987	18.987	(1.141)	85	217794			0.00-	30.00	21.38

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	1821442	9.05715	9.057	80.00-	120.00	100.00
19.346	19.346	(1.162)	92	1097007			0.00-	30.00	60.23

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.749	19.727	(0.920)	75	942711	10.0007	10.001	80.00-	120.00	100.00
19.749	19.749	(0.920)	77	300671			0.00-	30.00	31.89
19.727	19.727	(0.919)	39	356007			8.65-	68.65	37.76

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	693755	9.96566	9.966	80.00- 120.00	100.00	
20.036	20.036	(0.934)	99	434090			0.00- 30.00	62.57	
20.036	20.036	(0.934)	83	598651			56.43- 116.43	86.29	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	943177	9.87769	9.878	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	711546			0.00- 30.00	75.44	
20.199	20.199	(0.941)	131	680417			0.00- 30.00	72.14	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	638576	10.0297	10.030	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1046424			0.00- 30.00	163.87	
20.329	20.329	(0.947)	100	157763			0.00- 30.00	24.71	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1157626	10.9966	10.996	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	888800			0.00- 30.00	76.78	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.881	20.881	(0.973)	107	1118417	10.4173	10.417	80.00- 120.00	100.00	
20.881	20.881	(0.973)	109	1056563			0.00- 30.00	94.47	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1595343	10.0590	10.059	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	514251			0.00- 30.00	32.23	
21.504	21.504	(1.002)	77	919873			27.90- 87.90	57.66	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	785903	10.3217	10.322	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2404076			0.00- 30.00	305.90	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	846460	10.5707	10.571	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1610865			0.00- 30.00	190.31	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	794669	10.4094	10.409	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1610881			0.00- 30.00	202.71	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1207976	10.0167	10.017	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	589450			0.00- 30.00	48.80	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1096008	11.5858	11.586	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	563504			0.00- 30.00	51.41	

98 Cumene CAS #: 98-82-8									
22.676	22.676	(1.057)	105	2326112	10.3132	10.313	80.00- 120.00	100.00	
22.676	22.676	(1.057)	120	629583			0.00- 30.00	27.07	

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1558126	10.5785	10.578	80.00- 120.00	100.00	
23.063	23.063	(1.075)	85	1004627			0.00- 30.00	64.48	

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2239790	10.5429	10.543	80.00- 120.00	100.00	
23.140	23.140	(1.078)	120	539306			0.00- 30.00	24.08	

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1749543	10.7267	10.727	80.00- 120.00	100.00	
23.269	23.269	(1.085)	120	531360			0.00- 30.00	30.37	

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1369949	10.6848	10.685	80.00- 120.00	100.00	
23.321	23.321	(1.087)	120	670890			0.00- 30.00	48.97	

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	994172	10.8641	10.864	80.00- 120.00	100.00	
23.759	23.759	(1.107)	120	461640			0.00- 30.00	46.43	

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1106578	9.87545	9.875	80.00- 120.00	100.00	
24.120	24.120	(1.124)	148	704130			0.00- 30.00	63.63	
24.120	24.120	(1.124)	111	439528			0.00- 30.00	39.72	

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	990421	9.60629	9.606	80.00- 120.00	100.00	
24.223	24.223	(1.129)	148	633475			0.00- 30.00	63.96	
24.223	24.223	(1.129)	111	374841			0.00- 30.00	37.85	

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1623898	10.4123	10.412	80.00- 120.00	100.00	
24.352	24.352	(1.135)	126	347270			0.00- 30.00	21.38	

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	943274	9.92243	9.922	80.00- 120.00	100.00	
24.636	24.636	(1.148)	148	599485			34.12- 94.12	63.55	
24.636	24.636	(1.148)	111	388304			10.83- 70.83	41.17	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====

126	1,2,4-Trichlorobenzene						CAS #: 120-82-1		
26.338	26.338	(1.228)	180	236191	7.85104	7.851	80.00- 120.00	100.00	
26.338	26.338	(1.228)	182	224706			0.00- 30.00	95.14	

128	Hexachlorobutadiene						CAS #: 87-68-3		
26.416	26.416	(1.231)	225	346213	7.42441	7.424	80.00- 120.00	100.00	
26.416	26.416	(1.231)	223	213753			0.00- 30.00	61.74	

129	Naphthalene						CAS #: 91-20-3		
26.648	26.648	(1.242)	128	402163	7.70912	7.709	80.00- 120.00	100.00	
26.648	26.648	(1.242)	127	54813			0.00- 30.00	13.63	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msda.i	Calibration Date: 28-SEP-2010
Lab File ID: a092803.d	Calibration Time: 19:58
Lab Smp Id: lcs	Client Smp ID: lcs
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: ea	
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m	
Misc Info: 10ppbv (50ppbv)	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	346141	-1.53
66 1,4-Difluorobenze	1417041	850225	1983857	1445906	2.04
88 Chlorobenzene-d5	1320371	792223	1848519	1333882	1.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
 AREA LOWER LIMIT = - 40% of internal standard area.
 RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 28-SEP-2010 20:54

Client ID: los

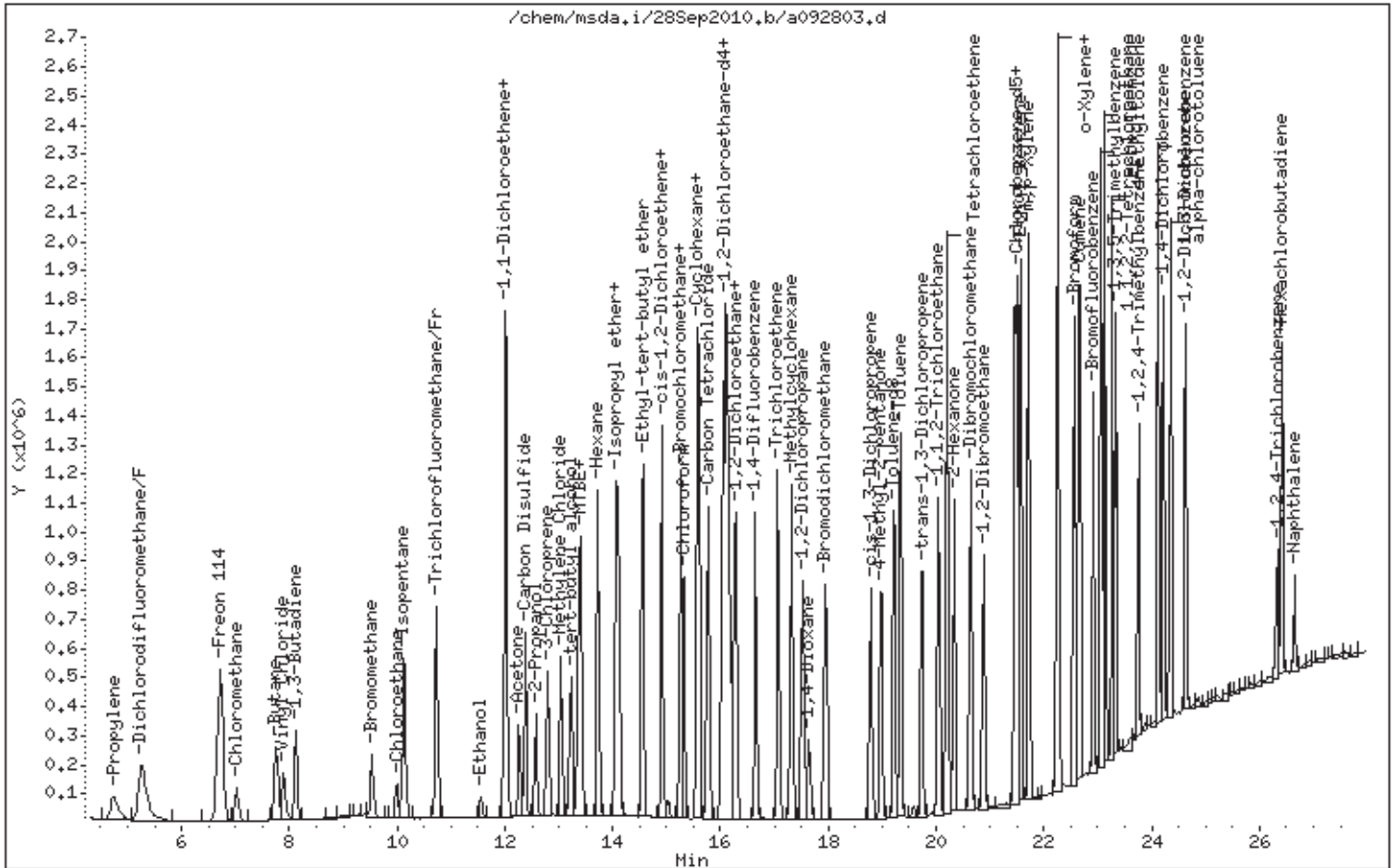
Instrument: msda.i

Sample Info: 50mL #1936-341

Operator: ea

Column phase: RTX-624

Column diameter: 0.32



Client Sample ID: LCSD

Lab ID#: 1009208-13CC

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 09:31 PM

Compound	%Recovery
Chloromethane	83
1,3-Butadiene	92
Bromomethane	103
Chloroethane	96
Freon 11	94
Ethanol	80
Freon 113	92
Acetone	95
2-Propanol	94
Carbon Disulfide	102
3-Chloropropene	113
Methylene Chloride	86
Hexane	90
2-Butanone (Methyl Ethyl Ketone)	94
Tetrahydrofuran	89
Chloroform	94
Cyclohexane	99
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	85
Heptane	90
1,2-Dichloropropane	94
1,4-Dioxane	99
Bromodichloromethane	98
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	84
trans-1,3-Dichloropropene	99
2-Hexanone	100
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	102
Chlorobenzene	100
Styrene	101
Bromoform	114
Cumene	104
Propylbenzene	106
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	100

Client Sample ID: LCSD

Lab ID#: 1009208-13CC

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 09:31 PM

Compound	%Recovery
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1,2,4-Trichlorobenzene	78
Hexachlorobutadiene	72

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
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1,2-Dichloroethane-d4	89	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 28Sep2010
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: lcsd	Client Smp ID: lcsd
Level: LOW	Operator: ea
Data Type: MS DATA	SampleType: LCSD
SpikeList File: AT09.spk	Quant Type: ISTD
Sublist File: AT09.sub	
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m	
Misc Info: 10ppbv (50ppbv)	

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	10.000	9.297	92.97	70-130
2 Propylene	10.000	8.679	86.79	60-140
6 Freon 114	10.000	9.291	92.91	70-130
7 Chloromethane	10.000	8.267	82.67	70-130
10 Vinyl Chloride	10.000	9.436	94.36	70-130
11 1,3-Butadiene	10.000	9.242	92.42	60-140
12 Bromomethane	10.000	10.272	102.72	70-130
13 Chloroethane	10.000	9.642	96.42	70-130
16 Trichlorofluoromet	10.000	9.419	94.19	70-130
20 Ethanol	10.000	7.951	79.51	60-140
22 Freon 113	10.000	9.251	92.51	70-130
23 1,1-Dichloroethene	10.000	9.077	90.77	70-130
24 Acetone	10.000	9.538	95.38	60-140
26 Carbon Disulfide	10.000	10.256	102.56	60-140
27 2-Propanol	10.000	9.358	93.58	60-140
28 3-Chloroprene	10.000	11.306	113.06	60-140
33 Methylene Chloride	10.000	8.620	86.20	70-130
35 MTBE	10.000	9.687	96.87	60-140
36 trans-1,2-Dichloro	10.000	9.911	99.11	60-140
40 Hexane	10.000	8.956	89.56	60-140
42 1,1-Dichloroethane	10.000	8.663	86.63	70-130
44 Vinyl Acetate	10.000	10.448	104.48	60-140
47 cis-1,2-Dichloroet	10.000	9.721	97.21	70-130
48 2-Butanone	10.000	9.444	94.44	60-140
51 Tetrahydrofuran	10.000	8.935	89.35	60-140
53 Chloroform	10.000	9.384	93.84	70-130
55 Cyclohexane	10.000	9.881	98.81	60-140
56 1,1,1-Trichloroeth	10.000	9.765	97.65	70-130
57 Carbon Tetrachlori	10.000	9.731	97.31	70-130
59 2,2,4-Trimethylpen	10.000	8.496	84.96	60-140
60 Benzene	10.000	9.262	92.62	70-130
64 Heptane	10.000	9.013	90.13	60-140
63 1,2-Dichloroethane	10.000	8.489	84.89	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 Trichloroethene	10.000	9.953	99.53	70-130
72 1,2-Dichloropropan	10.000	9.447	94.47	70-130
74 1,4-Dioxane	10.000	9.938	99.39	60-140
76 Bromodichlorometha	10.000	9.798	97.98	60-140
77 cis-1,3-Dichloropr	10.000	9.884	98.84	70-130
78 4-Methyl-2-pentano	10.000	8.459	84.59	60-140
81 Toluene	10.000	9.084	90.84	70-130
82 trans-1,3-Dichloro	10.000	9.901	99.01	70-130
83 1,1,2-Trichloroeth	10.000	9.888	98.88	70-130
85 2-Hexanone	10.000	9.975	99.75	60-140
84 Tetrachloroethene	10.000	9.780	97.80	70-130
86 Dibromochlorometha	10.000	10.910	109.10	60-140
87 1,2-Dibromoethane	10.000	10.185	101.85	70-130
89 Chlorobenzene	10.000	10.043	100.43	70-130
91 Ethyl Benzene	10.000	10.365	103.65	70-130
93 m,p-Xylene	10.000	10.672	106.72	70-130
94 o-Xylene	10.000	10.472	104.72	70-130
95 Styrene	10.000	10.080	100.80	70-130
97 Bromoform	10.000	11.368	113.68	60-140
98 Cumene	10.000	10.401	104.01	60-140
103 1,1,2,2-Tetrachlor	10.000	10.635	106.35	70-130
104 Propylbenzene	10.000	10.634	106.34	70-130
107 4-Ethyltoluene	10.000	10.780	107.81	60-140
109 1,3,5-Trimethylben	10.000	10.532	105.32	70-130
112 1,2,4-Trimethylben	10.000	10.630	106.31	70-130
115 1,3-Dichlorobenzen	10.000	10.050	100.50	70-130
117 1,4-Dichlorobenzen	10.000	9.734	97.34	70-130
118 alpha-chlorotoluen	10.000	10.640	106.41	70-130
121 1,2-Dichlorobenzen	10.000	10.012	100.12	70-130
126 1,2,4-Trichloroben	10.000	7.773	77.73	70-130
128 Hexachlorobutadien	10.000	7.158	71.58	70-130
129 Naphthalene	10.000	7.694	76.95	60-140
14 Isopentane	10.000	9.843	98.43	60-140
9 Butane	10.000	9.097	90.97	60-140
69 Methylcyclohexane	10.000	10.117	101.17	60-140
34 tert-butyl alcohol	10.000	10.011	100.11	60-140
41 Isopropyl ether	10.000	9.303	93.03	60-140
46 Ethyl-tert-butyl e	10.000	10.115	101.15	60-140
62 tert-amyl methyl e	10.000	11.096	110.96	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 61 1,2-Dichloroethane	10.000	8.939	89.39	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 80 Toluene-d8	10.000	9.603	96.03	70-130
\$ 100 Bromofluorobenzene	10.000	10.414	104.14	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/28Sep2010.b/a092804.d
 Lab Smp Id: lcsd Client Smp ID: lcsd
 Inj Date : 28-SEP-2010 21:31
 Operator : ea Inst ID: msda.i
 Smp Info : 50mL #1936-341;lcsd;lcsd
 Misc Info : 10ppbv (50ppbv)
 Comment :
 Method : /chem/msda.i/28Sep2010.b/a1010915a.m
 Meth Date : 28-Sep-2010 20:40 croush Quant Type: ISTD
 Cal Date : 20-SEP-2010 20:09 Cal File: a092015.d
 Als bottle: 3 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT09.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 52 Bromochloromethane CAS #: 74-97-5									
15.255	15.255	(1.000)	130	342662	10.0000			80.00- 120.00	100.00
15.255	15.255	(1.000)	128	265240				48.35- 108.35	77.41
15.255	15.255	(1.000)	49	435294				89.31- 149.31	127.03

* 66 1,4-Difluorobenzene CAS #: 540-36-3									
16.647	16.647	(1.000)	114	1428184	10.0000			80.00- 120.00	100.00
16.647	16.647	(1.000)	88	227208				0.00- 46.24	15.91

* 88 Chlorobenzene-d5 CAS #: 3114-55-4									
21.456	21.456	(1.000)	117	1329445	10.0000			80.00- 120.00	100.00
21.456	21.456	(1.000)	82	737119				25.95- 85.95	55.45

\$ 61 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
16.098	16.098	(1.055)	65	445234	8.93933	8.939		80.00- 120.00	100.00
16.098	16.098	(1.055)	67	262461				0.00- 30.00	58.95

\$ 80 Toluene-d8 CAS #: 2037-26-5									
19.211	19.211	(1.154)	98	1396820	9.60274	9.603		80.00- 120.00	100.00
19.211	19.211	(1.154)	70	152822				0.00- 30.00	10.94

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 80 Toluene-d8 (continued)									
19.211	19.211	(1.154)	100	949443			37.86- 97.86	67.97	

\$ 100 Bromofluorobenzene CAS #: 460-00-4									
22.934	22.934	(1.069)	174	707367	10.4136	10.414	80.00- 120.00	100.00	
22.908	22.908	(1.068)	95	904352			98.89- 158.89	127.85	
22.934	22.934	(1.069)	176	681333			67.15- 127.15	96.32	

2 Propylene CAS #: 115-07-1									
4.722	4.770	(0.309)	41	290546	8.67917	8.679	80.00- 120.00	100.00	
4.722	4.770	(0.309)	42	192233			0.00- 30.00	66.16	
4.722	4.770	(0.309)	39	207296			0.00- 30.00	71.35	

4 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.252	5.276	(0.344)	85	1279694	9.29687	9.297	80.00- 120.00	100.00	
5.252	5.276	(0.344)	87	414451			2.61- 62.61	32.39	

6 Freon 114 CAS #: 76-14-2									
6.722	6.722	(0.441)	135	846493	9.29104	9.291	80.00- 120.00	100.00	
6.722	6.746	(0.441)	137	273138			0.00- 30.00	32.27	

7 Chloromethane CAS #: 74-87-3									
7.011	7.035	(0.460)	50	355029	8.26681	8.267	80.00- 120.00	100.00	
7.011	7.035	(0.460)	52	120692			0.00- 30.00	33.99	

9 Butane CAS #: 106-97-8									
7.762	7.761	(0.509)	58	91175	9.09672	9.097	80.00- 120.00	100.00	
7.762	7.761	(0.509)	43	590139			0.00- 30.00	647.26	

10 Vinyl Chloride CAS #: 75-01-4									
7.883	7.883	(0.517)	62	474065	9.43644	9.436	80.00- 120.00	100.00	
7.883	7.883	(0.517)	64	151342			2.21- 62.21	31.92	

11 1,3-Butadiene CAS #: 106-99-0									
8.109	8.126	(0.532)	54	321492	9.24232	9.242	80.00- 120.00	100.00	
8.109	8.126	(0.532)	39	292315			0.00- 30.00	90.92	

12 Bromomethane CAS #: 74-83-9									
9.522	9.542	(0.624)	94	278413	10.2721	10.272	80.00- 120.00	100.00	
9.522	9.542	(0.624)	96	260290			62.96- 122.96	93.49	

13 Chloroethane CAS #: 75-00-3									
9.999	9.998	(0.655)	64	217628	9.64152	9.642	80.00- 120.00	100.00	
9.999	9.998	(0.655)	66	72247			0.00- 30.00	33.20	

14 Isopentane CAS #: 78-78-4									
10.123	10.143	(0.664)	57	367204	9.84284	9.843	80.00- 120.00	100.00	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
				ON-COL (PPBV)	FINAL (PPBV)		
==	=====	=====	=====	=====	=====	=====	=====
14 Isopentane (continued)							
10.123	10.143 (0.664)	43	493637			0.00- 30.00	134.43
10.123	10.143 (0.664)	42	427350			0.00- 30.00	116.38

16 Trichlorofluoromethane/Fr11				CAS #: 75-69-4			
10.724	10.724 (0.703)	101	1205806	9.41902	9.419	80.00- 120.00	100.00
10.724	10.724 (0.703)	103	779556			35.14- 95.14	64.65

20 Ethanol				CAS #: 64-17-5			
11.553	11.532 (0.757)	45	122074	7.95143	7.951	80.00- 120.00	100.00
11.553	11.532 (0.757)	43	24625			0.00- 30.00	20.17
11.553	11.532 (0.757)	46	49691			0.00- 30.00	40.71

23 1,1-Dichloroethene				CAS #: 75-35-4			
12.030	12.030 (0.789)	98	270955	9.07732	9.077	80.00- 120.00	100.00
12.030	12.030 (0.789)	61	614266			0.00- 30.00	226.70
12.030	12.030 (0.789)	96	418198			0.00- 30.00	154.34

22 Freon 113				CAS #: 76-13-1			
12.009	12.009 (0.787)	151	743944	9.25065	9.251	80.00- 120.00	100.00
12.009	12.009 (0.787)	153	479446			34.67- 94.67	64.45
12.009	12.009 (0.787)	101	954677			0.00- 30.00	128.33

24 Acetone				CAS #: 67-64-1			
12.258	12.258 (0.804)	58	194203	9.53758	9.538	80.00- 120.00	100.00
12.258	12.258 (0.804)	43	543640			0.00- 30.00	279.93

26 Carbon Disulfide				CAS #: 75-15-0			
12.382	12.382 (0.812)	76	1379187	10.2560	10.256	80.00- 120.00	100.00

28 3-Chloroprene				CAS #: 107-05-1			
12.776	12.776 (0.837)	76	191454	11.3058	11.306	80.00- 120.00	100.00
12.776	12.776 (0.837)	41	456705			0.00- 30.00	238.55

27 2-Propanol				CAS #: 67-63-0			
12.569	12.569 (0.824)	45	719415	9.35792	9.358	80.00- 120.00	100.00
12.569	12.569 (0.824)	43	115583			0.00- 30.00	16.07
12.569	12.569 (0.824)	59	27590			0.00- 30.00	3.84

33 Methylene Chloride				CAS #: 75-09-2			
13.037	13.037 (0.855)	84	388960	8.62011	8.620	80.00- 120.00	100.00
13.037	13.037 (0.855)	49	411034			0.00- 30.00	105.68
13.037	13.037 (0.855)	51	129050			0.00- 30.00	33.18

34 tert-butyl alcohol				CAS #: 75-65-0			
13.229	13.202 (0.867)	59	893663	10.0114	10.011	80.00- 120.00	100.00

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
					ON-COL (PPBV)	FINAL (PPBV)		
34 tert-butyl alcohol (continued)								
13.229	13.202	(0.867)	41	184596			0.00- 30.00	20.66
13.229	13.202	(0.867)	57	89911			0.00- 30.00	10.06

35 MTBE					CAS #: 1634-04-4			
13.367	13.367	(0.876)	73	1443493	9.68739	9.687	80.00- 120.00	100.00
13.367	13.367	(0.876)	57	296627			0.00- 30.00	20.55
13.367	13.367	(0.876)	41	261633			0.00- 30.00	18.12

36 trans-1,2-Dichloroethene					CAS #: 156-60-5			
13.422	13.421	(0.880)	98	343024	9.91125	9.911	80.00- 120.00	100.00
13.422	13.421	(0.880)	61	680473			0.00- 30.00	198.37
13.422	13.421	(0.880)	96	533133			0.00- 30.00	155.42

40 Hexane					CAS #: 110-54-3			
13.724	13.723	(0.900)	57	745146	8.95616	8.956	80.00- 120.00	100.00
13.724	13.723	(0.900)	43	433106			0.00- 30.00	58.12
13.724	13.723	(0.900)	86	157526			0.00- 30.00	21.14

41 Isopropyl ether					CAS #: 108-20-3			
14.053	14.053	(0.921)	45	1512813	9.30327	9.303	80.00- 120.00	100.00
14.053	14.053	(0.921)	87	515798			0.00- 30.00	34.10
14.053	14.053	(0.921)	59	190471			0.00- 30.00	12.59

42 1,1-Dichloroethane					CAS #: 75-34-3			
14.108	14.108	(0.925)	63	836589	8.66347	8.663	80.00- 120.00	100.00
14.108	14.108	(0.925)	65	266647			0.00- 30.00	31.87

44 Vinyl Acetate					CAS #: 108-05-4			
14.135	14.135	(0.927)	86	139103	10.4481	10.448	80.00- 120.00	100.00
14.108	14.108	(0.925)	42	149570			0.00- 30.00	107.52
14.108	14.108	(0.925)	43	1759249			0.00- 30.00	1264.71

46 Ethyl-tert-butyl ether					CAS #: 637-92-3			
14.562	14.562	(0.955)	59	1571278	10.1150	10.115	80.00- 120.00	100.00
14.562	14.562	(0.955)	87	748932			0.00- 30.00	47.66
14.542	14.541	(0.953)	41	254299			0.00- 30.00	16.18

47 cis-1,2-Dichloroethene					CAS #: 156-59-2			
14.915	14.915	(0.978)	98	340997	9.72071	9.721	80.00- 120.00	100.00
14.915	14.915	(0.978)	61	621575			0.00- 30.00	182.28
14.915	14.915	(0.978)	96	531495			128.12- 188.12	155.87

48 2-Butanone					CAS #: 78-93-3			
14.915	14.915	(0.978)	72	265307	9.44417	9.444	80.00- 120.00	100.00
14.915	14.915	(0.978)	43	850527			0.00- 30.00	320.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO
				ON-COL (PPBV)	FINAL (PPBV)		
==	=====	=====	=====	=====	=====	=====	=====
48 2-Butanone (continued)							
14.915	14.915 (0.978)	57	72380			0.00- 30.00	27.28

51 Tetrahydrofuran				CAS #: 109-99-9			
15.255	15.255 (1.000)	42	480796	8.93490	8.935	80.00- 120.00	100.00
15.255	15.255 (1.000)	71	233135			0.00- 30.00	48.49
15.255	15.255 (1.000)	72	254609			0.00- 30.00	52.96

53 Chloroform				CAS #: 67-66-3			
15.317	15.317 (1.004)	83	1025697	9.38374	9.384	80.00- 120.00	100.00
15.317	15.317 (1.004)	85	673230			0.00- 30.00	65.64

55 Cyclohexane				CAS #: 110-82-7			
15.595	15.594 (1.022)	84	779625	9.88078	9.881	80.00- 120.00	100.00
15.595	15.594 (1.022)	56	771090			0.00- 30.00	98.91
15.564	15.594 (1.020)	41	378485			0.00- 30.00	48.55

56 1,1,1-Trichloroethane				CAS #: 71-55-6			
15.564	15.563 (1.020)	97	1090052	9.76490	9.765	80.00- 120.00	100.00
15.564	15.563 (1.020)	99	699575			0.00- 30.00	64.18

57 Carbon Tetrachloride				CAS #: 56-23-5			
15.779	15.779 (1.034)	119	1106794	9.73081	9.731	80.00- 120.00	100.00
15.779	15.779 (1.034)	117	1149695			0.00- 30.00	103.88

59 2,2,4-Trimethylpentane				CAS #: 540-84-1			
16.043	16.043 (1.052)	56	766773	8.49645	8.496	80.00- 120.00	100.00
16.043	16.043 (1.052)	57	2291729			0.00- 30.00	298.88
16.043	16.043 (1.052)	41	543847			0.00- 30.00	70.93

60 Benzene				CAS #: 71-43-2			
16.098	16.098 (0.967)	78	1649744	9.26243	9.262	80.00- 120.00	100.00
16.098	16.098 (0.967)	77	380864			0.00- 30.00	23.09

62 tert-amyl methyl ether				CAS #: 994-05-8			
16.126	16.153 (0.969)	87	407259	11.0962	11.096	80.00- 120.00	100.00
16.126	16.126 (0.969)	73	1656725			0.00- 30.00	406.80
16.126	16.126 (0.969)	55	388940			0.00- 30.00	95.50

63 1,2-Dichloroethane				CAS #: 107-06-2			
16.208	16.208 (0.974)	62	643869	8.48908	8.489	80.00- 120.00	100.00
16.208	16.208 (0.974)	64	213117			0.00- 30.00	33.10

64 Heptane				CAS #: 142-82-5			
16.263	16.290 (0.977)	57	449847	9.01261	9.013	80.00- 120.00	100.00
16.290	16.290 (0.979)	100	201226			0.00- 30.00	44.73

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET	RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
64 Heptane (continued)									
16.263	16.290	(0.977)	43	774702			0.00-	30.00	172.21

67 Trichloroethene CAS #: 79-01-6									
17.059	17.059	(1.025)	130	764299	9.95312	9.953	80.00-	120.00	100.00
17.059	17.059	(1.025)	95	722092			0.00-	30.00	94.48
17.059	17.059	(1.025)	97	467423			0.00-	30.00	61.16

69 Methylcyclohexane CAS #: 108-87-2									
17.306	17.306	(1.040)	83	1026132	10.1174	10.117	80.00-	120.00	100.00
17.306	17.306	(1.040)	98	494330			0.00-	30.00	48.17
17.306	17.306	(1.040)	55	695386			0.00-	30.00	67.77

72 1,2-Dichloropropane CAS #: 78-87-5									
17.526	17.526	(1.053)	63	584396	9.44662	9.447	80.00-	120.00	100.00
17.526	17.526	(1.053)	62	419344			0.00-	30.00	71.76
17.526	17.526	(1.053)	41	275905			18.32-	78.32	47.21

74 1,4-Dioxane CAS #: 123-91-1									
17.636	17.636	(1.059)	88	401458	9.93855	9.938	80.00-	120.00	100.00
17.636	17.636	(1.059)	58	248926			0.00-	30.00	62.01
17.636	17.636	(1.059)	57	76729			0.00-	30.00	19.11

76 Bromodichloromethane CAS #: 75-27-4									
17.938	17.938	(1.078)	83	1101633	9.79825	9.798	80.00-	120.00	100.00
17.938	17.938	(1.078)	85	708340			0.00-	30.00	64.30

77 cis-1,3-Dichloropropene CAS #: 10061-01-5									
18.786	18.785	(1.128)	75	897951	9.88351	9.884	80.00-	120.00	100.00
18.786	18.785	(1.128)	77	286537			0.00-	30.00	31.91
18.786	18.785	(1.128)	39	353097			10.35-	70.35	39.32

78 4-Methyl-2-pentanone CAS #: 108-10-1									
18.965	18.965	(1.139)	43	992357	8.45884	8.459	80.00-	120.00	100.00
18.965	18.965	(1.139)	58	440079			0.00-	30.00	44.35
18.965	18.987	(1.139)	85	219996			0.00-	30.00	22.17

81 Toluene CAS #: 108-88-3									
19.346	19.346	(1.162)	91	1804400	9.08374	9.084	80.00-	120.00	100.00
19.346	19.346	(1.162)	92	1078511			0.00-	30.00	59.77

82 trans-1,3-Dichloropropene CAS #: 10061-02-6									
19.727	19.727	(0.919)	75	930205	9.90095	9.901	80.00-	120.00	100.00
19.727	19.749	(0.919)	77	296211			0.00-	30.00	31.84
19.727	19.727	(0.919)	39	348399			8.65-	68.65	37.45

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
83 1,1,2-Trichloroethane CAS #: 79-00-5									
20.036	20.036	(0.934)	97	686028	9.88756	9.888	80.00- 120.00	100.00	
20.036	20.036	(0.934)	99	428179			0.00- 30.00	62.41	
20.036	20.036	(0.934)	83	587173			56.43- 116.43	85.59	

84 Tetrachloroethene CAS #: 127-18-4									
20.199	20.199	(0.941)	166	930767	9.78026	9.780	80.00- 120.00	100.00	
20.199	20.199	(0.941)	129	706972			0.00- 30.00	75.96	
20.199	20.199	(0.941)	131	679488			0.00- 30.00	73.00	

85 2-Hexanone CAS #: 591-78-6									
20.329	20.329	(0.947)	58	632983	9.97508	9.975	80.00- 120.00	100.00	
20.329	20.329	(0.947)	43	1029402			0.00- 30.00	162.63	
20.329	20.329	(0.947)	100	160925			0.00- 30.00	25.42	

86 Dibromochloromethane CAS #: 124-48-1									
20.654	20.654	(0.963)	129	1144715	10.9102	10.910	80.00- 120.00	100.00	
20.654	20.654	(0.963)	127	882986			0.00- 30.00	77.14	

87 1,2-Dibromoethane CAS #: 106-93-4									
20.882	20.881	(0.973)	107	1089843	10.1851	10.185	80.00- 120.00	100.00	
20.882	20.881	(0.973)	109	1039436			0.00- 30.00	95.37	

89 Chlorobenzene CAS #: 108-90-7									
21.504	21.504	(1.002)	112	1587491	10.0429	10.043	80.00- 120.00	100.00	
21.504	21.504	(1.002)	114	511722			0.00- 30.00	32.23	
21.504	21.504	(1.002)	77	924353			27.90- 87.90	58.23	

91 Ethyl Benzene CAS #: 100-41-4									
21.576	21.576	(1.006)	106	786604	10.3654	10.365	80.00- 120.00	100.00	
21.576	21.576	(1.006)	91	2402260			0.00- 30.00	305.40	

93 m,p-Xylene CAS #: 108-38-3									
21.721	21.721	(1.012)	106	851705	10.6717	10.672	80.00- 120.00	100.00	
21.721	21.721	(1.012)	91	1614798			0.00- 30.00	189.60	

94 o-Xylene CAS #: 95-47-6									
22.251	22.251	(1.037)	106	796793	10.4720	10.472	80.00- 120.00	100.00	
22.251	22.251	(1.037)	91	1600656			0.00- 30.00	200.89	

95 Styrene CAS #: 100-42-5									
22.275	22.275	(1.038)	104	1211570	10.0800	10.080	80.00- 120.00	100.00	
22.275	22.275	(1.038)	78	590514			0.00- 30.00	48.74	

97 Bromoform CAS #: 75-25-2									
22.573	22.573	(1.052)	173	1071801	11.3677	11.368	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
97 Bromoform (continued)									
22.573	22.573	(1.052)	171	545741			0.00-	30.00	50.92

98 Cumene CAS #: 98-82-8									
22.650	22.676	(1.056)	105	2338070	10.4008	10.401	80.00-	120.00	100.00
22.650	22.676	(1.056)	120	633177			0.00-	30.00	27.08

103 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
23.063	23.063	(1.075)	83	1561313	10.6355	10.635	80.00-	120.00	100.00
23.063	23.063	(1.075)	85	1006523			0.00-	30.00	64.47

104 Propylbenzene CAS #: 103-65-1									
23.140	23.140	(1.078)	91	2251533	10.6336	10.634	80.00-	120.00	100.00
23.140	23.140	(1.078)	120	539160			0.00-	30.00	23.95

107 4-Ethyltoluene CAS #: 622-96-8									
23.269	23.269	(1.085)	105	1752480	10.7806	10.780	80.00-	120.00	100.00
23.269	23.269	(1.085)	120	539109			0.00-	30.00	30.76

109 1,3,5-Trimethylbenzene CAS #: 108-67-8									
23.321	23.321	(1.087)	105	1345848	10.5318	10.532	80.00-	120.00	100.00
23.321	23.321	(1.087)	120	667949			0.00-	30.00	49.63

112 1,2,4-Trimethylbenzene CAS #: 95-63-6									
23.759	23.759	(1.107)	105	969563	10.6306	10.630	80.00-	120.00	100.00
23.759	23.759	(1.107)	120	461994			0.00-	30.00	47.65

115 1,3-Dichlorobenzene CAS #: 541-73-1									
24.120	24.120	(1.124)	146	1122445	10.0505	10.050	80.00-	120.00	100.00
24.120	24.120	(1.124)	148	712668			0.00-	30.00	63.49
24.120	24.120	(1.124)	111	442576			0.00-	30.00	39.43

117 1,4-Dichlorobenzene CAS #: 106-46-7									
24.223	24.223	(1.129)	146	1000215	9.73367	9.734	80.00-	120.00	100.00
24.223	24.223	(1.129)	148	637681			0.00-	30.00	63.75
24.223	24.223	(1.129)	111	380304			0.00-	30.00	38.02

118 alpha-chlorotoluene CAS #: 100-44-7									
24.352	24.352	(1.135)	91	1653966	10.6405	10.640	80.00-	120.00	100.00
24.352	24.352	(1.135)	126	357865			0.00-	30.00	21.64

121 1,2-Dichlorobenzene CAS #: 95-50-1									
24.636	24.636	(1.148)	146	948639	10.0122	10.012	80.00-	120.00	100.00
24.636	24.636	(1.148)	148	608306			34.12-	94.12	64.12
24.636	24.636	(1.148)	111	395492			10.83-	70.83	41.69

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====

126	1,2,4-Trichlorobenzene				CAS #: 120-82-1				
26.338	26.338	(1.228)	180	233076	7.77335	7.773	80.00-	120.00	100.00
26.338	26.338	(1.228)	182	222130			0.00-	30.00	95.30

128	Hexachlorobutadiene				CAS #: 87-68-3				
26.416	26.416	(1.231)	225	332684	7.15810	7.158	80.00-	120.00	100.00
26.416	26.416	(1.231)	223	210077			0.00-	30.00	63.15

129	Naphthalene				CAS #: 91-20-3				
26.648	26.648	(1.242)	128	400067	7.69454	7.694	80.00-	120.00	100.00
26.648	26.648	(1.242)	127	51696			0.00-	30.00	12.92

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a092804.d
Lab Smp Id: lcsd
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/28Sep2010.b/a1010915a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 28-SEP-2010
Calibration Time: 19:58
Client Smp ID: lcsd
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	351504	210902	492106	342662	-2.52
66 1,4-Difluorobenze	1417041	850225	1983857	1428184	0.79
88 Chlorobenzene-d5	1320371	792223	1848519	1329445	0.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
52 Bromochloromethan	15.26	14.93	15.59	15.26	0.00
66 1,4-Difluorobenze	16.65	16.32	16.98	16.65	0.00
88 Chlorobenzene-d5	21.46	21.13	21.79	21.46	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Date : 28-SEP-2010 21:31

Client ID: lcsd

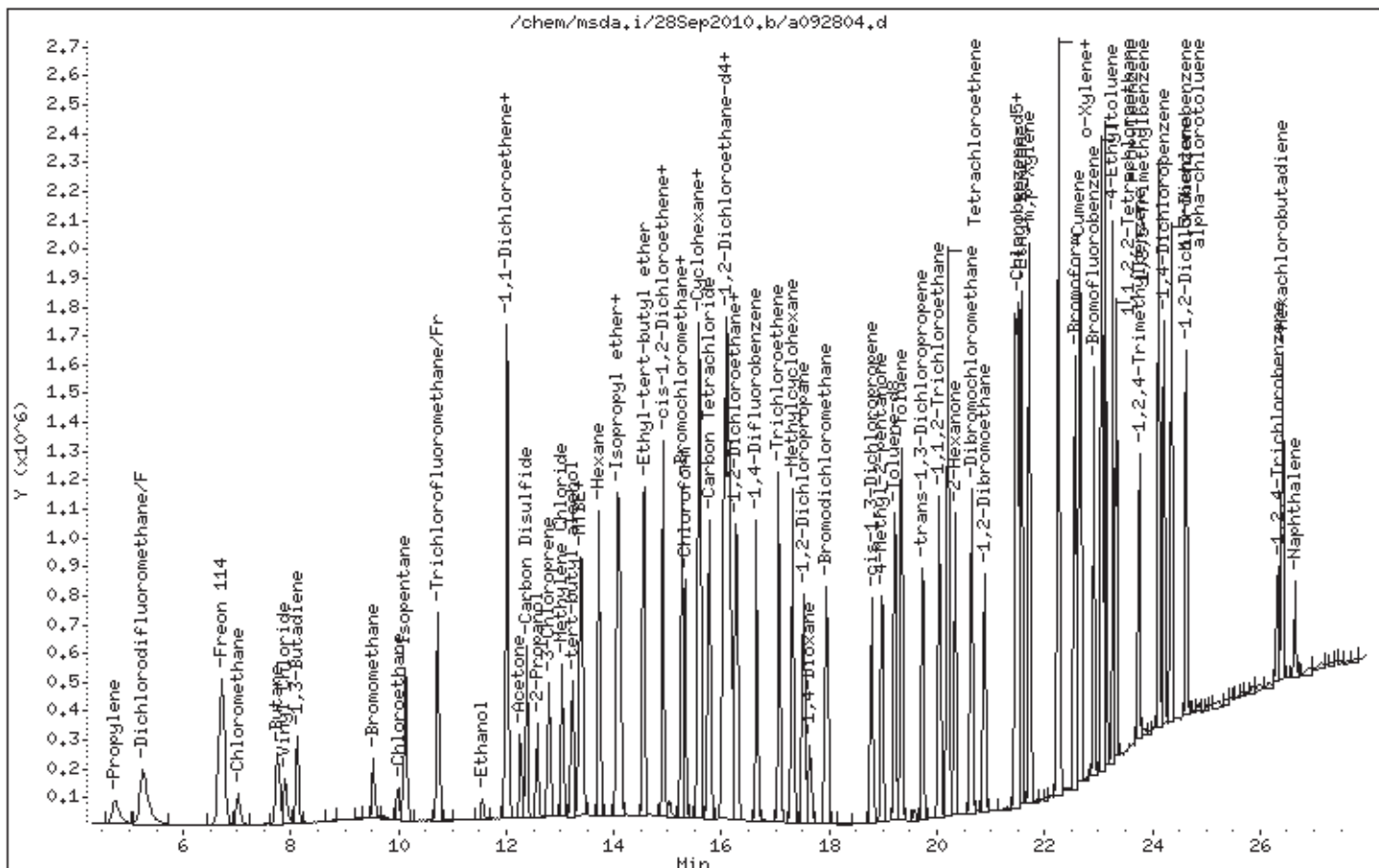
Instrument: msda.i

Sample Info: 50mL #1936-341;lcsd;lcsd

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Client Sample ID: LCS

Lab ID#: 1009208-13D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092803sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 08:54 PM

Compound	%Recovery
Vinyl Chloride	94
1,1-Dichloroethene	88
1,1-Dichloroethane	92
cis-1,2-Dichloroethene	100
1,1,1-Trichloroethane	100
Benzene	92
1,2-Dichloroethane	89
Trichloroethene	90
Toluene	89
1,1,2-Trichloroethane	92
Tetrachloroethene	86
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	109
1,1,2,2-Tetrachloroethane	97
trans-1,2-Dichloroethene	101
Methyl tert-butyl ether	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: lcs Client Smp ID: lcs
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCS
 SpikeList File: HILO.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	9.458	94.58	70-130
3 Freon 114	10.000	9.766	97.66	70-130
4 Chloromethane	10.000	8.581	85.81	70-130
5 Vinyl Chloride	10.000	9.454	94.54	70-130
9 Chloroethane	10.000	10.765	107.65	70-130
12 1,1-Dichloroethene	10.000	8.754	87.55	70-130
21 MTBE	10.000	10.728	107.28	70-130
22 trans-1,2-Dichloro	10.000	10.141	101.41	70-130
25 1,1-Dichloroethane	10.000	9.202	92.02	70-130
29 cis-1,2-Dichloroet	10.000	9.976	99.76	70-130
32 Chloroform	10.000	9.239	92.39	70-130
34 1,1,1-Trichloroeth	10.000	10.039	100.39	70-130
35 Carbon Tetrachlori	10.000	10.423	104.23	70-130
36 Benzene	10.000	9.226	92.26	70-130
38 1,2-Dichloroethane	10.000	8.947	89.47	70-130
41 Trichloroethene	10.000	9.043	90.43	70-130
48 Toluene	10.000	8.895	88.95	70-130
50 1,1,2-Trichloroeth	10.000	9.185	91.85	70-130
51 Tetrachloroethene	10.000	8.617	86.17	70-130
55 1,2-Dibromoethane	10.000	10.188	101.88	70-130
58 Ethyl Benzene	10.000	10.508	105.08	70-130
59 m,p-Xylene	10.000	10.637	106.37	70-130
61 o-Xylene	10.000	10.875	108.75	70-130
67 1,1,2,2-Tetrachlor	10.000	9.718	97.18	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	9.369	93.69	70-130
\$ 47 Toluene-d8	10.000	10.078	100.78	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 66 Bromofluorobenzene	10.000	10.542	105.42	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092803sim.d
Lab Smp Id: lcs Client Smp ID: lcs
Inj Date : 28-SEP-2010 20:54
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-341
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 20:42 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====	=====
* 31	Bromochloromethane						CAS #: 74-97-5		
15.269	15.269	(1.000)	130	352107	10.0000			80.00- 120.00	100.00
15.269	15.269	(1.000)	128	273255				0.00- 30.00	77.61
15.269	15.269	(1.000)	49	489430				0.00- 30.00	139.00

* 40	1,4-Difluorobenzene						CAS #: 540-36-3		
16.661	16.661	(1.000)	114	1514375	10.0000			80.00- 120.00	100.00
16.661	16.661	(1.000)	88	244274				0.00- 46.17	16.13

* 56	Chlorobenzene-d5						CAS #: 3114-55-4		
21.470	21.469	(1.000)	117	1398743	10.0000			80.00- 120.00	100.00
21.470	21.469	(1.000)	82	750717				0.00- 30.00	53.67

\$ 37	1,2-Dichloroethane-d4						CAS #: 17060-07-0		
16.084	16.084	(1.053)	65	488273	9.36885	9.369		80.00- 120.00	100.00
16.084	16.084	(1.053)	67	290197				0.00- 30.00	59.43

\$ 47	Toluene-d8						CAS #: 2037-26-5		
19.225	19.225	(1.154)	98	1360346	10.0779	10.078		80.00- 120.00	100.00
19.225	19.225	(1.154)	70	155512				0.00- 41.52	11.43

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	911501			36.81- 96.81	67.01	

\$ 66 Bromofluorobenzene CAS #: 460-00-4									
22.922	22.922	(1.068)	174	743208	10.5422	10.542	80.00- 120.00	100.00	
22.922	22.922	(1.068)	95	970493			100.82- 160.82	130.58	
22.922	22.922	(1.068)	176	721759			66.99- 126.99	97.11	

1 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
5.265	5.289	(0.345)	85	1381989	9.45764	9.458	80.00- 120.00	100.00	
5.265	5.289	(0.345)	87	447891			0.00- 30.00	32.41	

3 Freon 114 CAS #: 76-14-2									
6.712	6.736	(0.440)	135	910704	9.76568	9.766	80.00- 120.00	100.00	
6.736	6.736	(0.441)	137	291010			0.00- 30.00	31.95	

4 Chloromethane CAS #: 74-87-3									
7.025	7.049	(0.460)	50	388411	8.58137	8.581	80.00- 120.00	100.00	
7.025	7.049	(0.460)	52	126739			0.00- 30.00	32.63	

5 Vinyl Chloride CAS #: 75-01-4									
7.897	7.897	(0.517)	62	514641	9.45372	9.454	80.00- 120.00	100.00	
7.897	7.897	(0.517)	64	164286			1.85- 61.85	31.92	

9 Chloroethane CAS #: 75-00-3									
9.991	10.012	(0.654)	64	239976	10.7648	10.765	80.00- 120.00	100.00	
9.991	10.012	(0.654)	66	79094			0.00- 30.00	32.96	

12 1,1-Dichloroethene CAS #: 75-35-4									
12.043	12.023	(0.789)	98	293664	8.75456	8.754	80.00- 120.00	100.00	
12.023	12.023	(0.787)	61	692628			0.00- 30.00	235.86	
12.023	12.023	(0.787)	96	458047			0.00- 30.00	155.98	

22 trans-1,2-Dichloroethene CAS #: 156-60-5									
13.435	13.435	(0.880)	98	372038	10.1408	10.141	80.00- 120.00	100.00	
13.408	13.408	(0.878)	61	760588			0.00- 30.00	204.44	
13.435	13.435	(0.880)	96	581927			0.00- 30.00	156.42	

21 MTBE CAS #: 1634-04-4									
13.380	13.380	(0.876)	73	1538392	10.7281	10.728	80.00- 120.00	100.00	
13.380	13.380	(0.876)	57	316619			0.00- 30.00	20.58	
13.380	13.380	(0.876)	41	286040			0.00- 30.00	18.59	

25 1,1-Dichloroethane CAS #: 75-34-3									
14.121	14.121	(0.925)	63	924198	9.20182	9.202	80.00- 120.00	100.00	
14.121	14.121	(0.925)	65	297909			2.19- 62.19	32.23	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	367257	9.97632	9.976	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	688001			0.00- 30.00	187.34	
14.928	14.928	(0.978)	96	577373			0.00- 30.00	157.21	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1111893	9.23897	9.239	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	724841			35.22- 95.22	65.19	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	1178069	10.0390	10.039	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	760821			34.52- 94.52	64.58	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.762	15.762	(1.032)	119	1141002	10.4232	10.423	80.00- 120.00	100.00	
15.762	15.762	(1.032)	117	1178824			73.21- 133.21	103.31	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	1782871	9.22588	9.226	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	412224			0.00- 30.00	23.12	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	708224	8.94726	8.947	80.00- 120.00	100.00	
16.194	16.194	(0.972)	64	226679			0.00- 30.00	32.01	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	789150	9.04282	9.043	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	769677			67.69- 127.69	97.53	
17.073	17.073	(1.025)	97	497729			33.10- 93.10	63.07	

48 Toluene CAS #: 108-88-3									
19.337	19.337	(1.161)	91	1881891	8.89515	8.895	80.00- 120.00	100.00	
19.337	19.337	(1.161)	92	1137586			30.39- 90.39	60.45	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	736384	9.18487	9.185	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	463317			32.83- 92.83	62.92	
20.050	20.050	(0.934)	83	624897			54.80- 114.80	84.86	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	987434	8.61720	8.617	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	716218			41.87- 101.87	72.53	
20.212	20.212	(0.941)	131	689393			39.52- 99.52	69.82	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.862	(0.972)	107	1176035	10.1880	10.188	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
55 1,2-Dibromoethane (continued)									
20.863	20.862	(0.972)	109	1112517			64.20- 124.20	94.60	

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	785093	10.5079	10.508	80.00- 120.00	100.00	
21.566	21.566	(1.004)	91	2495827			0.00- 30.00	317.90	

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	843344	10.6367	10.637	80.00- 120.00	100.00	
21.735	21.735	(1.012)	91	1677936			0.00- 30.00	198.96	

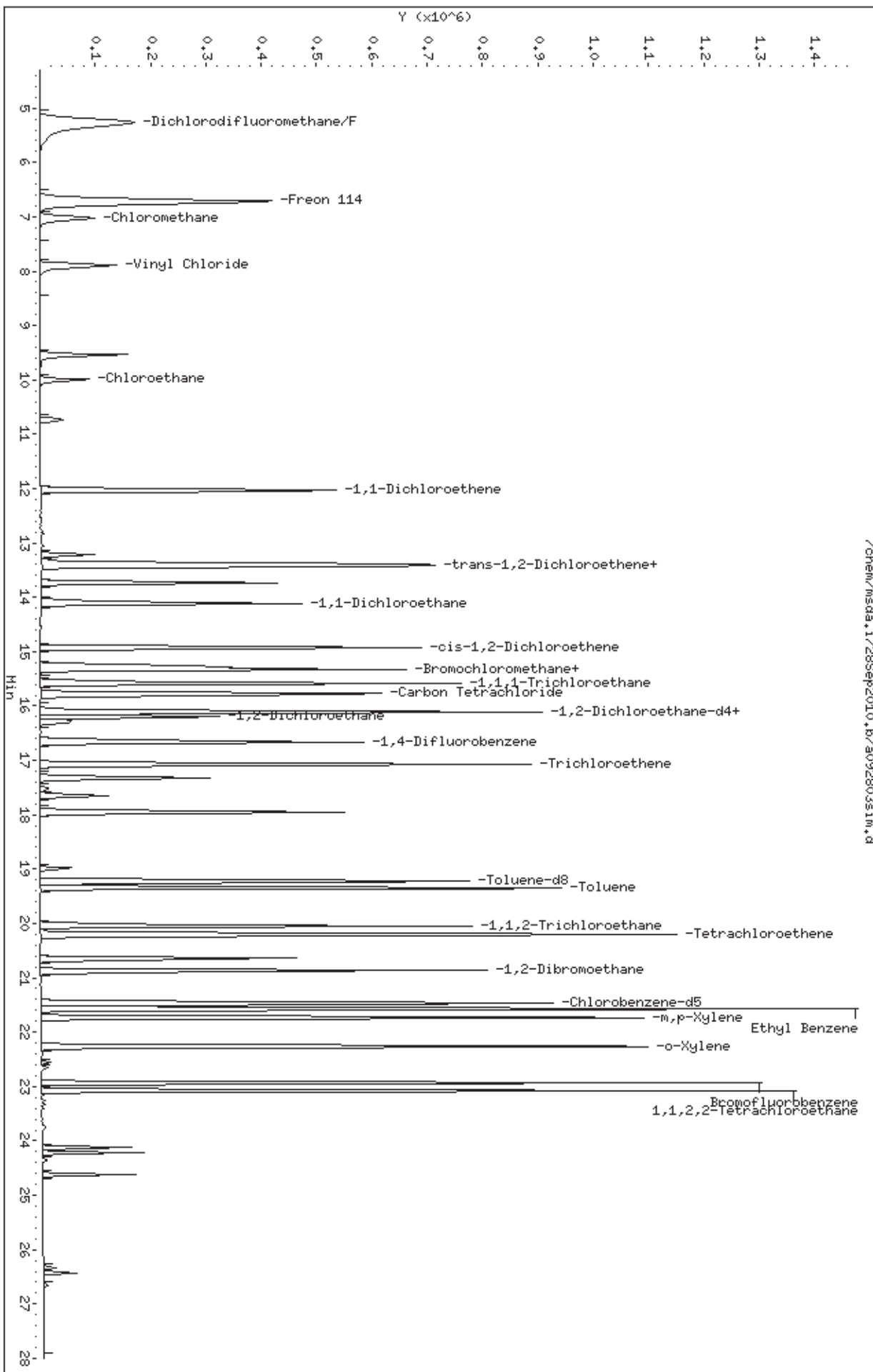
61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	798714	10.8755	10.875	80.00- 120.00	100.00	
22.241	22.240	(1.036)	91	1673983			181.48- 241.48	209.58	

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.076	23.076	(1.075)	83	1626363	9.71839	9.718	80.00- 120.00	100.00	
23.076	23.076	(1.075)	85	1053650			34.62- 94.62	64.79	

Data File: /chem/msda.i/28Sep2010.b/a092803sim.d
Date: 28-SEP-2010 20:54
Client ID: 10s
Sample Info: 50mL #1936-341

Column phase: RTX-624

Instrument: msda.i
Operator: ea
Column diameter: 0.53



Client Sample ID: LCSD

Lab ID#: 1009208-13DD

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	a092804sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/28/10 09:31 PM

Compound	%Recovery
Vinyl Chloride	95
1,1-Dichloroethene	86
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	100
1,1,1-Trichloroethane	101
Benzene	91
1,2-Dichloroethane	88
Trichloroethene	90
Toluene	90
1,1,2-Trichloroethane	92
Tetrachloroethene	86
Ethyl Benzene	106
m,p-Xylene	107
o-Xylene	109
1,1,2,2-Tetrachloroethane	97
trans-1,2-Dichloroethene	100
Methyl tert-butyl ether	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28Sep2010
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: lcsd Client Smp ID: lcsd
 Level: LOW Operator: ea
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: HILO.spk Quant Type: ISTD
 Sublist File: AT09.sub
 Method File: /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
 Misc Info: 10ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
1 Dichlorodifluorome	10.000	9.564	95.64	70-130
3 Freon 114	10.000	9.849	98.49	70-130
4 Chloromethane	10.000	8.586	85.86	70-130
5 Vinyl Chloride	10.000	9.528	95.28	70-130
9 Chloroethane	10.000	10.588	105.88	70-130
12 1,1-Dichloroethene	10.000	8.627	86.27	70-130
21 MTBE	10.000	10.589	105.89	70-130
22 trans-1,2-Dichloro	10.000	9.986	99.86	70-130
25 1,1-Dichloroethane	10.000	9.112	91.12	70-130
29 cis-1,2-Dichloroet	10.000	9.981	99.81	70-130
32 Chloroform	10.000	9.210	92.10	70-130
34 1,1,1-Trichloroeth	10.000	10.068	100.68	70-130
35 Carbon Tetrachlori	10.000	10.517	105.17	70-130
36 Benzene	10.000	9.144	91.44	70-130
38 1,2-Dichloroethane	10.000	8.833	88.33	70-130
41 Trichloroethene	10.000	9.035	90.35	70-130
48 Toluene	10.000	8.962	89.62	70-130
50 1,1,2-Trichloroeth	10.000	9.179	91.79	70-130
51 Tetrachloroethene	10.000	8.595	85.95	70-130
55 1,2-Dibromoethane	10.000	10.212	102.12	70-130
58 Ethyl Benzene	10.000	10.597	105.97	70-130
59 m,p-Xylene	10.000	10.719	107.19	70-130
61 o-Xylene	10.000	10.936	109.36	70-130
67 1,1,2,2-Tetrachlor	10.000	9.716	97.17	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 37 1,2-Dichloroethane	10.000	9.314	93.14	70-130
\$ 47 Toluene-d8	10.000	10.171	101.71	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 66 Bromofluorobenzene	10.000	10.635	106.35	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15 SIM

Data file : /chem/msda.i/28Sep2010.b/a092804sim.d
Lab Smp Id: lcsd Client Smp ID: lcsd
Inj Date : 28-SEP-2010 21:31
Operator : ea Inst ID: msda.i
Smp Info : 50mL #1936-341
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/28Sep2010.b/a1010915a.m/a10s0915a.m
Meth Date : 28-Sep-2010 20:42 croush Quant Type: ISTD
Cal Date : 15-SEP-2010 17:24 Cal File: a091515sim.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * 0 * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT (REL RT)	MASS	RESPONSE (PPBV)	ON-COL	FINAL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====
* 31 Bromochloromethane CAS #: 74-97-5								
15.269	15.269 (1.000)	130	343384 10.0000			80.00- 120.00	100.00	
15.269	15.269 (1.000)	128	266161			0.00- 30.00	77.51	
15.269	15.269 (1.000)	49	466596			0.00- 30.00	135.88	

* 40 1,4-Difluorobenzene CAS #: 540-36-3								
16.661	16.661 (1.000)	114	1489977 10.0000			80.00- 120.00	100.00	
16.661	16.661 (1.000)	88	239039			0.00- 46.17	16.04	

* 56 Chlorobenzene-d5 CAS #: 3114-55-4								
21.470	21.469 (1.000)	117	1389651 10.0000			80.00- 120.00	100.00	
21.470	21.469 (1.000)	82	746004			0.00- 30.00	53.68	

\$ 37 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
16.085	16.084 (1.053)	65	473388 9.31399	9.314		80.00- 120.00	100.00	
16.085	16.084 (1.053)	67	281266			0.00- 30.00	59.42	

\$ 47 Toluene-d8 CAS #: 2037-26-5								
19.225	19.225 (1.154)	98	1350792 10.1710	10.171		80.00- 120.00	100.00	
19.225	19.225 (1.154)	70	153476			0.00- 41.52	11.36	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL (PPBV)	FINAL (PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====	=====
\$ 47 Toluene-d8 (continued)									
19.225	19.225	(1.154)	100	904903			36.81-	96.81	66.99

\$ 66 Bromofluorobenzene									
									CAS #: 460-00-4
22.922	22.922	(1.068)	174	744885	10.6352	10.635	80.00-	120.00	100.00
22.922	22.922	(1.068)	95	976135			100.82-	160.82	131.05
22.922	22.922	(1.068)	176	720522			66.99-	126.99	96.73

1 Dichlorodifluoromethane/Fr12									
									CAS #: 75-71-8
5.266	5.289	(0.345)	85	1362922	9.56409	9.564	80.00-	120.00	100.00
5.266	5.289	(0.345)	87	441287			0.00-	30.00	32.38

3 Freon 114									
									CAS #: 76-14-2
6.712	6.736	(0.440)	135	895724	9.84905	9.849	80.00-	120.00	100.00
6.712	6.736	(0.440)	137	286425			0.00-	30.00	31.98

4 Chloromethane									
									CAS #: 74-87-3
7.025	7.049	(0.460)	50	378980	8.58571	8.586	80.00-	120.00	100.00
7.025	7.049	(0.460)	52	123789			0.00-	30.00	32.66

5 Vinyl Chloride									
									CAS #: 75-01-4
7.897	7.897	(0.517)	62	505861	9.52850	9.528	80.00-	120.00	100.00
7.897	7.897	(0.517)	64	161686			1.85-	61.85	31.96

9 Chloroethane									
									CAS #: 75-00-3
9.991	10.012	(0.654)	64	230185	10.5879	10.588	80.00-	120.00	100.00
9.991	10.012	(0.654)	66	76093			0.00-	30.00	33.06

12 1,1-Dichloroethene									
									CAS #: 75-35-4
12.023	12.023	(0.787)	98	282232	8.62749	8.627	80.00-	120.00	100.00
12.023	12.023	(0.787)	61	657003			0.00-	30.00	232.79
12.023	12.023	(0.787)	96	440062			0.00-	30.00	155.92

22 trans-1,2-Dichloroethene									
									CAS #: 156-60-5
13.435	13.435	(0.880)	98	357295	9.98634	9.986	80.00-	120.00	100.00
13.408	13.408	(0.878)	61	724216			0.00-	30.00	202.69
13.435	13.435	(0.880)	96	559639			0.00-	30.00	156.63

21 MTBE									
									CAS #: 1634-04-4
13.380	13.380	(0.876)	73	1480878	10.5894	10.589	80.00-	120.00	100.00
13.380	13.380	(0.876)	57	298228			0.00-	30.00	20.14
13.380	13.380	(0.876)	41	266925			0.00-	30.00	18.02

25 1,1-Dichloroethane									
									CAS #: 75-34-3
14.122	14.121	(0.925)	63	892540	9.11237	9.112	80.00-	120.00	100.00
14.122	14.121	(0.925)	65	287823			2.19-	62.19	32.25

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
29 cis-1,2-Dichloroethene CAS #: 156-59-2									
14.928	14.928	(0.978)	98	358319	9.98078	9.981	80.00- 120.00	100.00	
14.928	14.928	(0.978)	61	661954			0.00- 30.00	184.74	
14.928	14.928	(0.978)	96	567720			0.00- 30.00	158.44	

32 Chloroform CAS #: 67-66-3									
15.331	15.331	(1.004)	83	1080949	9.21002	9.210	80.00- 120.00	100.00	
15.331	15.331	(1.004)	85	705734			35.22- 95.22	65.29	

34 1,1,1-Trichloroethane CAS #: 71-55-6									
15.577	15.577	(1.020)	97	1152232	10.0682	10.068	80.00- 120.00	100.00	
15.577	15.577	(1.020)	99	745586			34.52- 94.52	64.71	

35 Carbon Tetrachloride CAS #: 56-23-5									
15.762	15.762	(1.032)	119	1122787	10.5174	10.517	80.00- 120.00	100.00	
15.762	15.762	(1.032)	117	1160206			73.21- 133.21	103.33	

36 Benzene CAS #: 71-43-2									
16.112	16.112	(0.967)	78	1738523	9.14370	9.144	80.00- 120.00	100.00	
16.112	16.112	(0.967)	77	401164			0.00- 30.00	23.07	

38 1,2-Dichloroethane CAS #: 107-06-2									
16.194	16.194	(0.972)	62	687894	8.83273	8.833	80.00- 120.00	100.00	
16.194	16.194	(0.972)	64	220134			0.00- 30.00	32.00	

41 Trichloroethene CAS #: 79-01-6									
17.073	17.073	(1.025)	130	775748	9.03481	9.035	80.00- 120.00	100.00	
17.073	17.073	(1.025)	95	752907			67.69- 127.69	97.06	
17.073	17.073	(1.025)	97	487134			33.10- 93.10	62.80	

48 Toluene CAS #: 108-88-3									
19.337	19.337	(1.161)	91	1865490	8.96201	8.962	80.00- 120.00	100.00	
19.337	19.337	(1.161)	92	1127518			30.39- 90.39	60.44	

50 1,1,2-Trichloroethane CAS #: 79-00-5									
20.050	20.050	(0.934)	97	731153	9.17929	9.179	80.00- 120.00	100.00	
20.050	20.050	(0.934)	99	460394			32.83- 92.83	62.97	
20.050	20.050	(0.934)	83	616173			54.80- 114.80	84.27	

51 Tetrachloroethene CAS #: 127-18-4									
20.212	20.212	(0.941)	166	978507	8.59516	8.595	80.00- 120.00	100.00	
20.212	20.212	(0.941)	129	707900			41.87- 101.87	72.34	
20.212	20.212	(0.941)	131	685799			39.52- 99.52	70.09	

55 1,2-Dibromoethane CAS #: 106-93-4									
20.863	20.862	(0.972)	107	1171197	10.2125	10.212	80.00- 120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS		TARGET RANGE	RATIO	
					ON-COL	FINAL			
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
55 1,2-Dibromoethane (continued)									
20.863	20.862	(0.972)	109	1103288			64.20-	124.20	94.20

58 Ethyl Benzene					CAS #: 100-41-4				
21.566	21.566	(1.004)	106	786594	10.5969	10.597	80.00-	120.00	100.00
21.566	21.566	(1.004)	91	2511849			0.00-	30.00	319.33

59 m,p-Xylene					CAS #: 108-38-3				
21.735	21.735	(1.012)	106	844331	10.7188	10.719	80.00-	120.00	100.00
21.711	21.735	(1.011)	91	1671032			0.00-	30.00	197.91

61 o-Xylene					CAS #: 95-47-6				
22.265	22.265	(1.037)	106	797948	10.9361	10.936	80.00-	120.00	100.00
22.241	22.240	(1.036)	91	1686253			181.48-	241.48	211.32

67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5				
23.077	23.076	(1.075)	83	1615477	9.71650	9.716	80.00-	120.00	100.00
23.077	23.076	(1.075)	85	1045371			34.62-	94.62	64.71

Data File: /chem/msda.i/28Sep2010.b/a092804sim.d

Date: 28-SEP-2010 21:31

Client ID: losd

Sample Info: 50mL #1936-341

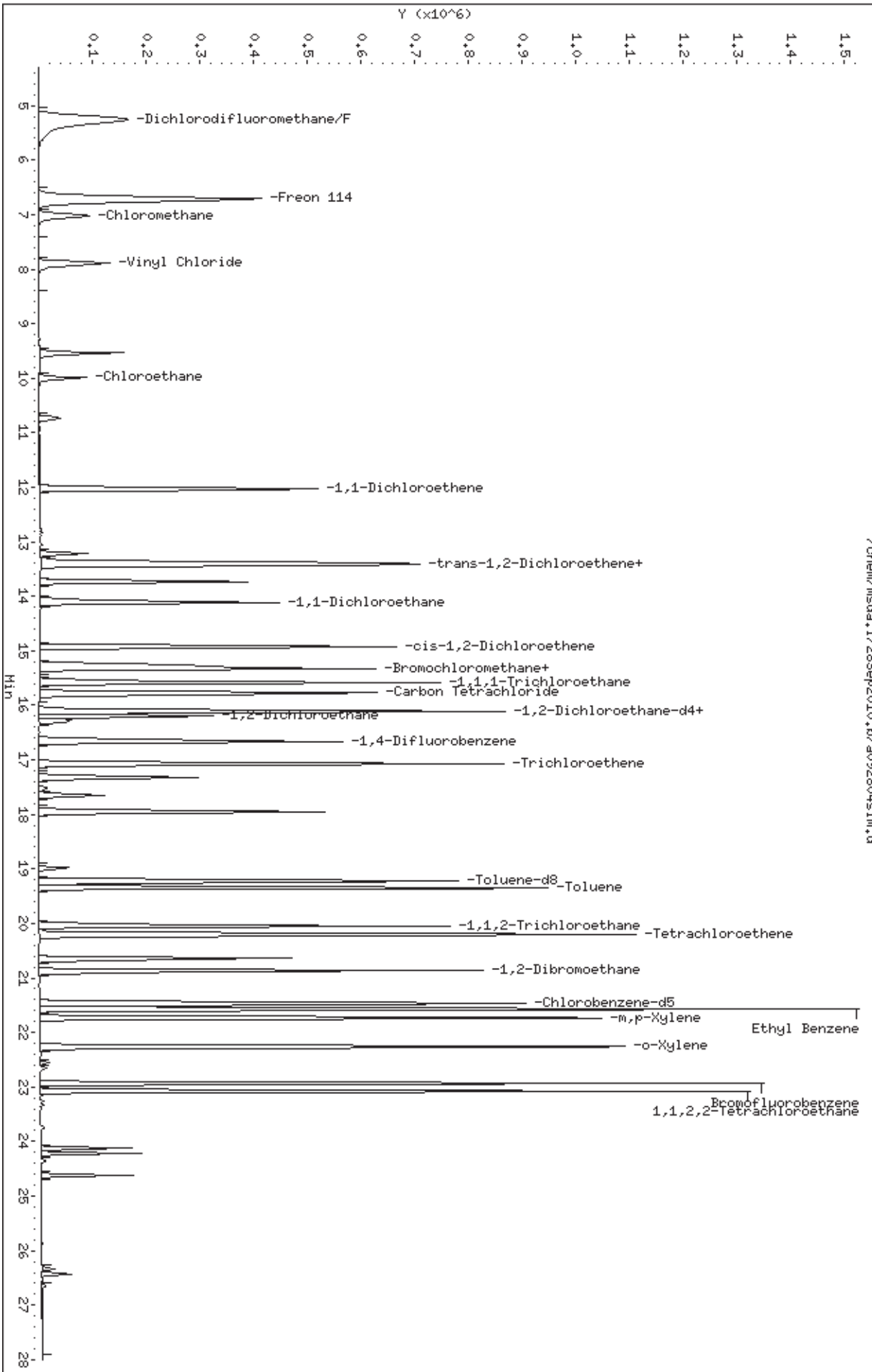
Column phase: RTX-624

Instrument: msda.i

Operator: ea

Column diameter: 0.53

Page 1



ION ABUNDANCE CRITERIA

m/z	REL. ABUNDANCE
50	15.0 - 40.0% of mass 95
75	30.0 - 60.0% of mass 95
95	Base peak, 100.00% relative abundance
96	5.0 - 9.0% of mass 95
173	Less than 2.0% of mass 174
174	50.0 - 100% of mass 95
175	5.0 - 9.0% of mass 174
176	Greater than 95.0% but less than 101.0% of mass 174
177	5.0 - 9.0% of mass 176

1 - value in parenthesis is % mass 174
 2 - value in parenthesis is % mass 176
 Verify 176/174 m/z Ratio: $\frac{3894110}{4043330} = 0.9631$

Calculation Check:

ppbv of compound = $\frac{\text{AreaSample}}{\text{AreaStd}} \times \text{RRF} = \frac{(1449270)}{(1447275)} \times (16.00) = 16.00$
 Reported Result: 9.698

Method: A1010915A / A1050915A

BFB Injection Date: 9/22/10
 BFB Injection Time: 14:19
 BFB File ID: A092717
 Tekmar Purge Flow: Z 92717
 Vacuum:
 IS/S Std #: 968-21D Exp. Date: 11/16/10
 BCM 35422 / 301925
 1,4-DFB 1467275 (LC) / 135311 (SIM)
 CB-d5 1353217 / 1413711
 Verified CCV IS vs ICAL mid-point (-40% D) Initials: EA

NOAH Cart #: NA File #: AA

File ID: A092717B
 Compound: 101-08
 Initials: EA

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	A092717	BFB TUNE CHECK (146-134)	1936-323	50mg	2.0ul	1.00	EA	9/22/10	1919	EA	
✓	18	NAV (50ppbv)	1936-327	10ppbv	50ml		EA		1959	EA	9mt
✓	19	LOS (50ppbv)	1936-341				EA		2044	EA	
✓	20	LES (50ppbv)					EA		2119	EA	
✓	21	NAV (5.0ppbv)	1936-323	2.0ppbv	100ml		EA		2154	EA	ATG
✓	22	NAV (2.0ppbv)	1936-321	1.0ppbv	150ml		EA		2239	EA	AL = 125ml Navon
✓	23	NAV (5.0ppbv)	1936-317	2.0ppbv	100ml		EA		2322	EA	
✓	24	Lab Blank	34384	Humid	250ml		EA	09/28/10	0731	EA	ATG

Signature: [Handwritten Signature]

Date: 09/28/10

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	7.45
75	30.0 - 60.0% of mass 95	49.11
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	9.12
173	Less than 2.0% of mass 174	(D.S.B.) ¹
174	50.0 - 100% of mass 95	74.93
175	5.0 - 9.0% of mass 174	(7.08) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.70) ¹
177	5.0 - 9.0% of mass 176	(6.75) ²

BFB Injection Date: 9/28/10
 BFB Injection Time: 1934
 BFB File ID: 4092601
 Tekmar Purge Flow: 29/20/10
 Vacuum:
 IS/S Std #: 1968-210 Exp. Date: 11/16/10
 BCM 351504 1359040
 1,4-DFB 1417041 1478572 SWW
 CB-d5 1320771 1377474
 Verified CCV IS vs ICAL mid-point (-40%D) ~~FA~~

NOAH Cart #: 1A File #: 1A

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \frac{\text{Conc}_{\text{std}}}{\text{Conc}_{\text{sample}}} \times \text{RRF}$

$\frac{(1391942)}{(1417041)} \times \frac{(10.50)}{(1.01850)} = 9.644$

Reported Result 9.644

File ID: A692802
 Compound: TDI-d8
 Initials: EP

Method: ABD915A / A1050915A

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	A092801	BFB TIME CHECK	149-134	50mm	2.0UL	1.00	FA	9/29/10	1934	FA	
✓	12	CCV (SD ppbv)	1936-241	10ppbv	50ml		ED		1958	FA	first
✓	13	LCS (SD ppbv)					FA		1054	FA	
✓	14	LCS (SD ppbv)					FA		2131	FA	
✓	15	lab blank	34384	Humid			FA		2211	FA	1,2,2, PEG
✓	16	lab blank					FA		2256	CR	
✓	17	1009208 - 04AB	14012	7 1/2 psi	250ml	1.75	CR	09/29/10	0711	CR	
✓	18	08	31148	7 1/2 psi	250ml	1.79	CR		0806	CR	

Signature: *[Handwritten Signature]*

Date: 09/29/10


@ Air Toxics Ltd.

MSD-A

Logbook #: 2028

9	✓	A092809	1009208-06AB	5572	6.5 th g-5xi	250ml	1.7 th g	CR	09/29/10	0841	CR	
10	✓			34351	5 th g-5xi	250ml	1.6 th g	CR		0929	CR	
11	✓			12711	6.5 th g-5xi	250ml	1.7 th g	CR		1024	CR	
12	✓			34479	5.5 th g-5xi	250ml	1.64 th g	CR		1115	CR	
13	✓			13668	28.5 th g-5xi	250ml	1.6 th g	CR		1206	CR	Trip Blank
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												CR 09/29/10

Comments:


Signature

09/29/10
Date

Air Toxics Ltd.

Data file : /var/chem/msda.i/15Sep2010.b/a091505.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 15-SEP-2010 09:51
 Operator : db Inst ID: msda.i
 Smp Info : 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch
 Misc Info : 50ng
 Comment :
 Method : /var/chem/msda.i/15Sep2010.b/bfb60.m
 Meth Date : 15-Sep-2010 07:47 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
6.822	6.784	0.038	95	519424			100.00- 100.00	100.00
6.822	6.784	0.038	50	100906			15.00- 40.00	19.43
6.822	6.784	0.038	75	271815			30.00- 60.00	52.33
6.822	6.784	0.038	96	35428			5.00- 9.00	6.82
6.822	6.784	0.038	173	1546			0.00- 1.99	0.42
6.822	6.784	0.038	174	369510			50.01- 100.00	71.14
6.822	6.784	0.038	175	26528			5.00- 9.00	7.18
6.822	6.784	0.038	176	356891			95.01- 100.99	96.58
6.822	6.784	0.038	177	23567			5.00- 9.00	6.60

Date : 15-SEP-2010 09:51

Client ID: BFB

Instrument: msda.i

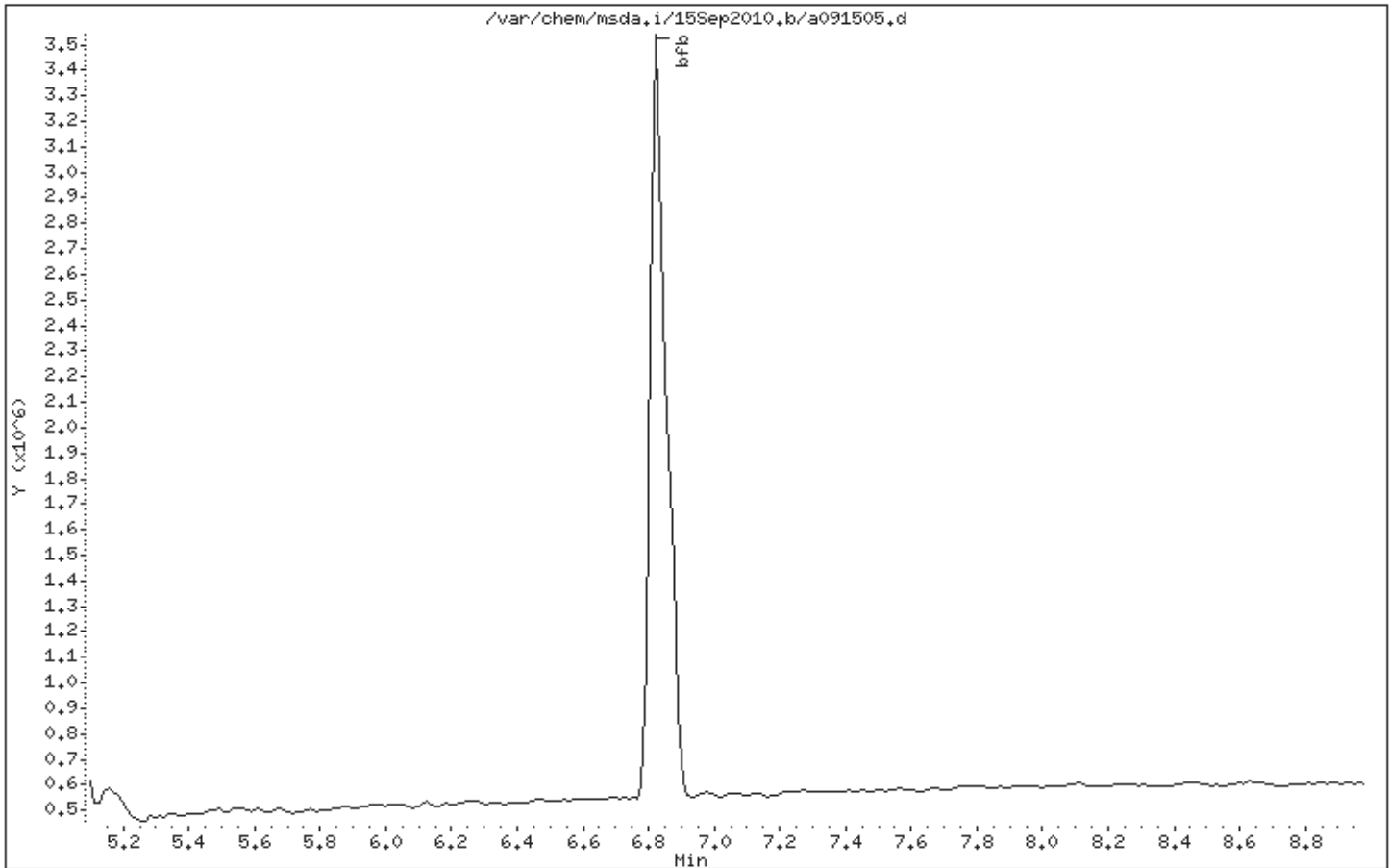
Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00



Date : 15-SEP-2010 09:51

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

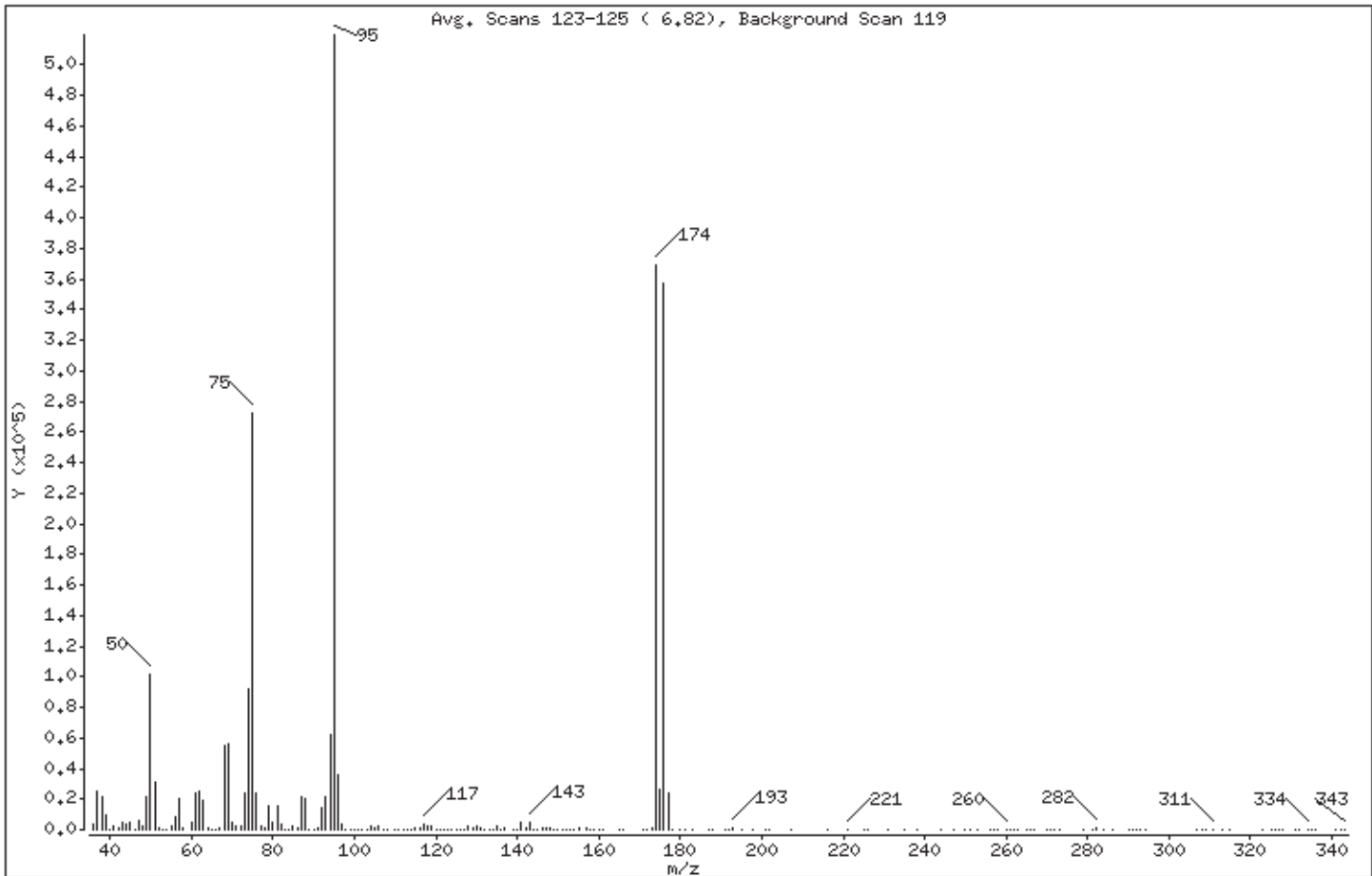
Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.43
75	30.00 - 60.00% of mass 95	52.33
96	5.00 - 9.00% of mass 95	6.82
173	Less than 1.99% of mass 174	0.30 (0.42)
174	50.01 - 100.00% of mass 95	71.14
175	5.00 - 9.00% of mass 174	5.11 (7.18)
176	95.01 - 100.99% of mass 174	68.71 (96.58)
177	5.00 - 9.00% of mass 176	4.54 (6.60)

Date : 15-SEP-2010 09:51

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00

Data File: a091505.d

Spectrum: Avg. Scans 123-125 (6.82), Background Scan 119

Location of Maximum: 95.00

Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4126	88.00	19992	141.00	4701	247.00	17
37.00	24528	89.00	330	142.00	865	250.00	45
38.00	21864	90.00	40	143.00	5022	251.00	178
39.00	9089	91.00	1778	144.00	398	253.00	132
40.00	201	92.00	14872	145.00	317	256.00	131
41.00	2933	93.00	21744	146.00	604	257.00	6
42.00	922	94.00	61576	147.00	1013	258.00	116
43.00	5257	95.00	519424	148.00	1259	260.00	374
44.00	3092	96.00	35424	149.00	260	261.00	229
45.00	4222	97.00	3001	150.00	438	262.00	130
46.00	410	98.00	336	151.00	13	263.00	27
47.00	5776	99.00	387	152.00	377	265.00	181
48.00	2810	100.00	65	153.00	280	266.00	61
49.00	21064	101.00	57	154.00	262	267.00	107
50.00	100904	102.00	119	155.00	1239	270.00	242
51.00	30512	103.00	556	157.00	784	271.00	2
52.00	1461	104.00	2206	158.00	291	272.00	26
53.00	334	105.00	955	159.00	460	273.00	2
54.00	172	106.00	2132	160.00	50	279.00	121
55.00	2250	107.00	466	161.00	586	281.00	250
56.00	8681	108.00	169	165.00	150	282.00	602
57.00	19968	110.00	242	166.00	77	284.00	53
58.00	798	111.00	416	171.00	66	286.00	51
60.00	4591	112.00	418	172.00	229	290.00	117
61.00	23912	113.00	517	173.00	1546	291.00	117
62.00	24720	114.00	50	174.00	369472	292.00	79
63.00	18544	115.00	624	175.00	26528	293.00	85
64.00	1692	116.00	1641	176.00	356864	294.00	88
65.00	163	117.00	3337	177.00	23560	307.00	89
66.00	24	118.00	1843	178.00	515	308.00	38
67.00	1278	119.00	2832	180.00	45	309.00	35
68.00	55120	120.00	100	181.00	322	311.00	110
69.00	56056	121.00	138	183.00	57	313.00	42
70.00	5186	122.00	88	187.00	4	315.00	42
71.00	2648	123.00	62	188.00	60	323.00	83

Date : 15-SEP-2010 09:51

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00

Data File: a091505.d

Spectrum: Avg. Scans 123-125 (6.82), Background Scan 119

Location of Maximum: 95.00

Number of points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	2770	124.00	361	191.00	353	325.00	124
73.00	23952	125.00	237	192.00	35	326.00	25
74.00	91432	126.00	119	193.00	787	327.00	297
75.00	271808	127.00	298	195.00	101	328.00	42
76.00	23392	128.00	2399	198.00	60	331.00	266
77.00	2614	129.00	675	201.00	178	332.00	5
78.00	1781	130.00	2023	202.00	27	334.00	387
79.00	15327	131.00	696	207.00	496	335.00	95
80.00	4364	132.00	31	216.00	49	336.00	75
81.00	15428	133.00	120	221.00	212	341.00	26
82.00	3543	134.00	57	225.00	34	342.00	42
83.00	370	135.00	1972	226.00	68	343.00	35
84.00	591	136.00	316	231.00	133		
85.00	2021	137.00	987	235.00	105		
86.00	622	139.00	91	238.00	38		
87.00	20904	140.00	573	244.00	61		

Air Toxics Ltd.

Data file : /var/chem/msda.i/20Sep2010.b/a092001.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 20-SEP-2010 10:08
 Operator : ej Inst ID: msda.i
 Smp Info : 2.0ul #1476-1755; BFB Tune Check; BFB Tune Ch
 Misc Info : 50ng
 Comment :
 Method : /var/chem/msda.i/20Sep2010.b/bfb60.m
 Meth Date : 20-Sep-2010 10:07 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
6.808	6.784	0.024	95	694506			100.00- 100.00	100.00
6.808	6.784	0.024	50	128650			15.00- 40.00	18.52
6.808	6.784	0.024	75	348078			30.00- 60.00	50.12
6.808	6.784	0.024	96	48032			5.00- 9.00	6.92
6.808	6.784	0.024	173	1677			0.00- 1.99	0.33
6.808	6.784	0.024	174	505002			50.01- 100.00	72.71
6.808	6.784	0.024	175	36583			5.00- 9.00	7.24
6.808	6.784	0.024	176	490459			95.01- 100.99	97.12
6.808	6.784	0.024	177	33636			5.00- 9.00	6.86

Date : 20-SEP-2010 10:08

Client ID: BFB

Instrument: msda.i

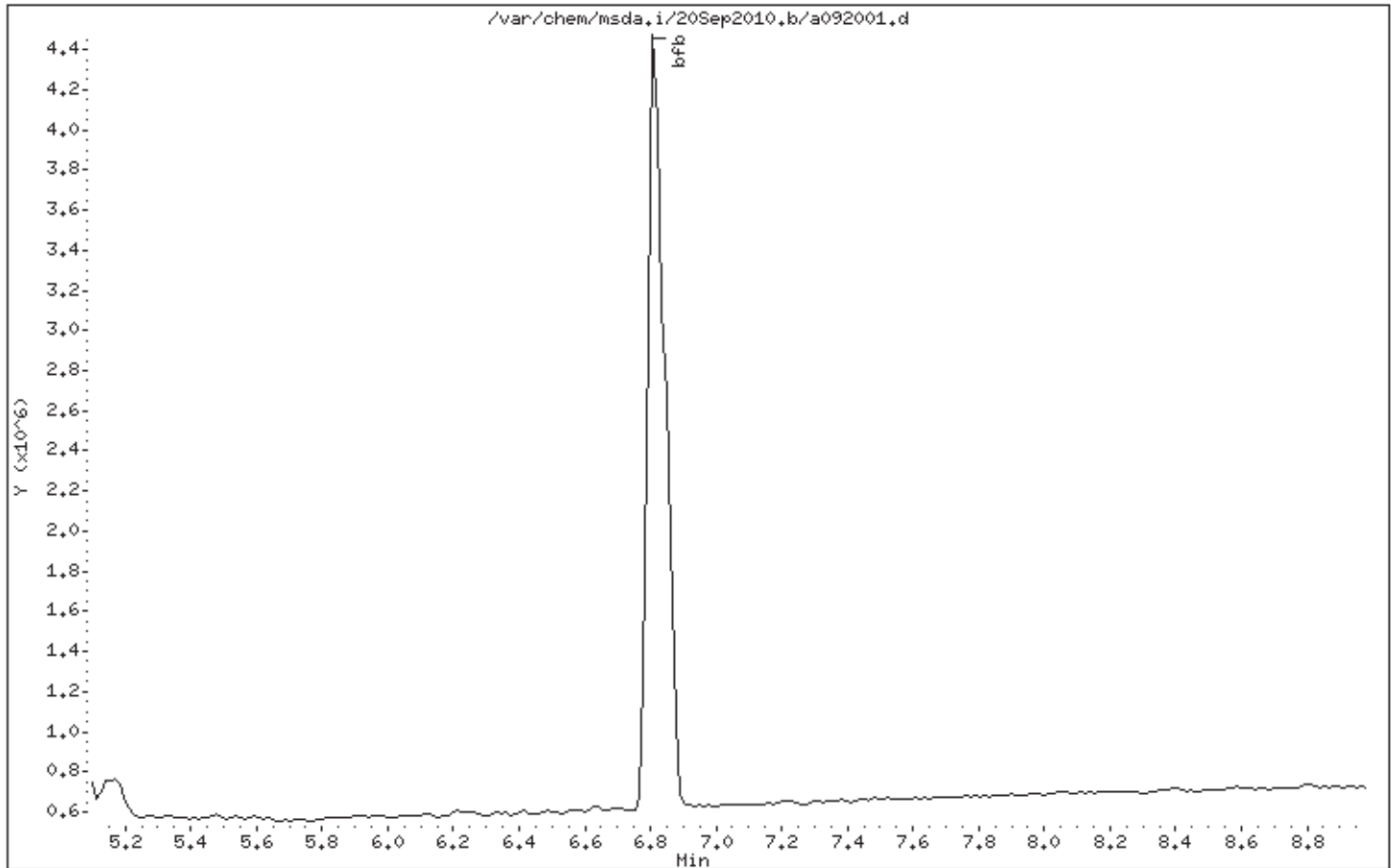
Sample Info: 2.0ul #1476-1755; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ej

Column phase:

Column diameter: 2.00



Date : 20-SEP-2010 10:08

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1755; BFB Tune Check; BFB Tune Ch

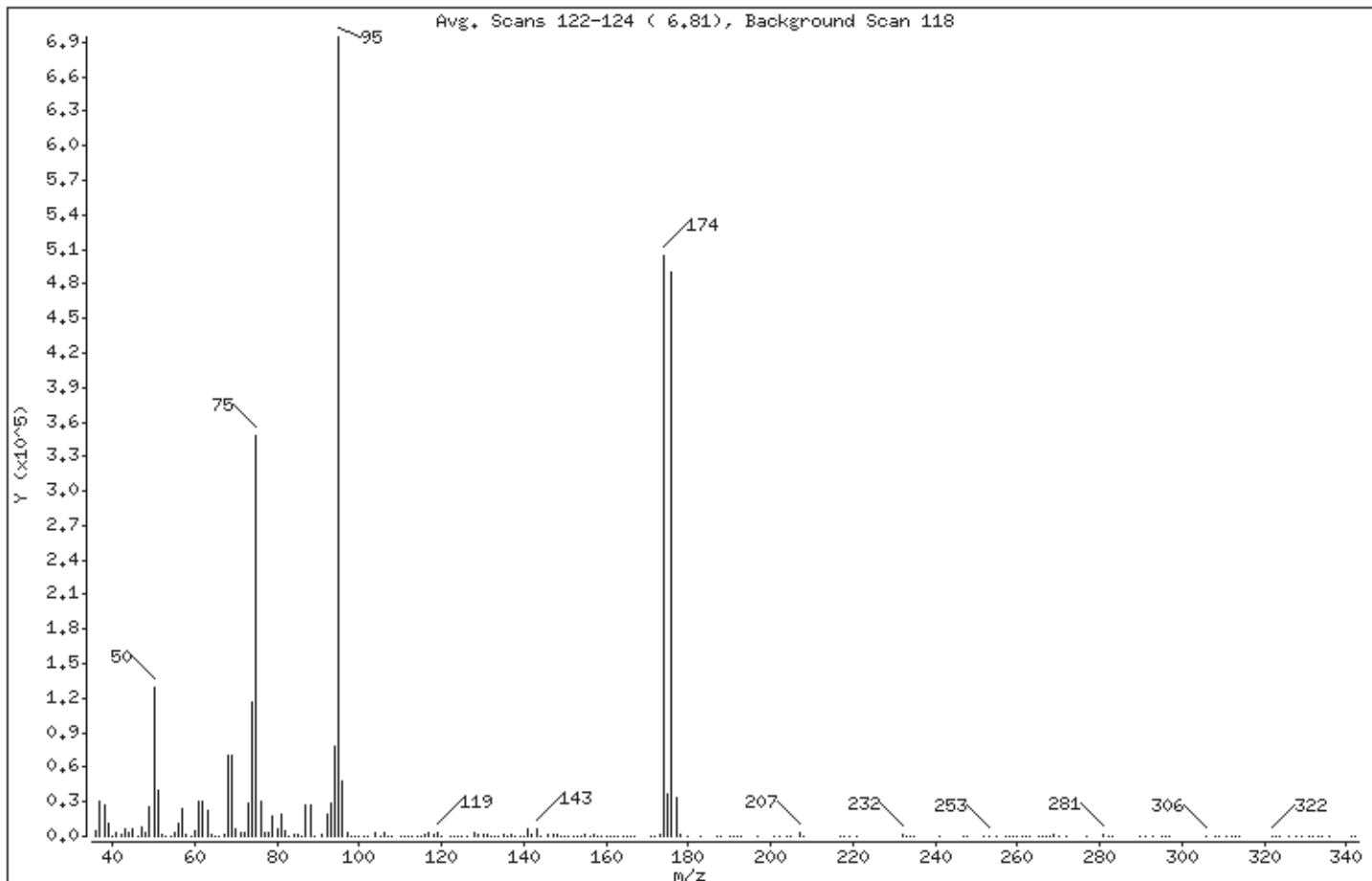
Volume Injected (uL): 1.0

Operator: ej

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.52
75	30.00 - 60.00% of mass 95	50.12
96	5.00 - 9.00% of mass 95	6.92
173	Less than 1.99% of mass 174	0.24 (0.33)
174	50.01 - 100.00% of mass 95	72.71
175	5.00 - 9.00% of mass 174	5.27 (7.24)
176	95.01 - 100.99% of mass 174	70.62 (97.12)
177	5.00 - 9.00% of mass 176	4.84 (6.86)

Date : 20-SEP-2010 10:08

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1755; BFB Tune Check: BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ej

Column phase:

Column diameter: 2.00

Data File: a092001.d

Spectrum: Avg. Scans 122-124 (6.81), Background Scan 118

Location of Maximum: 95.00

Number of points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5380	88.00	26664	146.00	1179	235.00	65
37.00	30208	89.00	30	147.00	800	241.00	7
38.00	26928	91.00	2232	148.00	1368	247.00	176
39.00	11434	92.00	19232	149.00	148	248.00	74
40.00	593	93.00	28232	150.00	621	252.00	59
41.00	2691	94.00	78752	151.00	16	253.00	733
42.00	893	95.00	694464	152.00	402	255.00	194
43.00	5683	96.00	48032	153.00	618	257.00	14
44.00	3294	97.00	3497	154.00	308	258.00	170
45.00	5595	98.00	410	155.00	1472	259.00	125
46.00	396	99.00	694	156.00	70	260.00	519
47.00	7756	100.00	51	157.00	1549	261.00	584
48.00	3754	101.00	55	158.00	240	262.00	193
49.00	25552	102.00	126	159.00	781	263.00	1
50.00	128648	104.00	2717	160.00	52	265.00	135
51.00	39920	105.00	564	161.00	541	266.00	42
52.00	1779	106.00	2927	162.00	55	267.00	114
53.00	108	107.00	604	163.00	360	268.00	109
54.00	62	108.00	178	164.00	169	269.00	864
55.00	2560	110.00	294	165.00	307	270.00	394
56.00	10528	111.00	571	166.00	14	272.00	93
57.00	23440	112.00	428	167.00	10	277.00	177
58.00	908	113.00	689	171.00	62	281.00	1365
59.00	24	114.00	55	172.00	249	282.00	632
60.00	5533	115.00	309	173.00	1677	283.00	190
61.00	30168	116.00	2197	174.00	504960	290.00	13
62.00	30472	117.00	3720	175.00	36576	291.00	101
63.00	22712	118.00	2191	176.00	490432	293.00	95
64.00	2052	119.00	3825	177.00	33632	295.00	69
65.00	244	120.00	137	178.00	1162	296.00	52
66.00	53	122.00	204	180.00	21	297.00	103
67.00	1579	123.00	192	183.00	135	306.00	240
68.00	69592	124.00	428	187.00	81	308.00	57
69.00	70528	125.00	177	188.00	55	309.00	99
70.00	6573	126.00	80	190.00	54	311.00	50

Date : 20-SEP-2010 10:08

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1755; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ej

Column phase:

Column diameter: 2.00

Data File: a092001.d

Spectrum: Avg. Scans 122-124 (6.81), Background Scan 118

Location of Maximum: 95.00

Number of points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	2649	128.00	3219	191.00	584	312.00	190
72.00	3508	129.00	1190	192.00	74	313.00	212
73.00	29248	130.00	2163	193.00	516	314.00	30
74.00	115944	131.00	966	197.00	154	322.00	658
75.00	348032	132.00	25	201.00	128	323.00	67
76.00	29712	133.00	578	202.00	47	324.00	135
77.00	3580	134.00	422	204.00	69	326.00	64
78.00	2682	135.00	1419	205.00	68	328.00	196
79.00	18104	136.00	182	207.00	2434	329.00	89
80.00	5873	137.00	1062	208.00	218	331.00	228
81.00	18928	138.00	134	217.00	107	332.00	4
82.00	4547	139.00	176	218.00	203	333.00	48
83.00	480	140.00	539	219.00	58	334.00	621
84.00	927	141.00	5935	221.00	31	336.00	99
85.00	1896	142.00	1174	232.00	982	341.00	66
86.00	696	143.00	6061	233.00	62	342.00	6
87.00	27624	144.00	211	234.00	114		

Air Toxics Ltd.

Data file : /chem/msda.i/27Sep2010a.b/a092717.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 27-SEP-2010 19:19
 Operator : ea Inst ID: msda.i
 Smp Info : 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch
 Misc Info : 50ng
 Comment :
 Method : /chem/msda.i/27Sep2010a.b/bfb60.m
 Meth Date : 27-Sep-2010 08:15 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
1 bfb						CAS #: 460-00-4		
6.822	6.784	0.038	95	520021			100.00- 100.00	100.00
6.822	6.784	0.038	50	92006			15.00- 40.00	17.69
6.822	6.784	0.038	75	256892			30.00- 60.00	49.40
6.822	6.784	0.038	96	36840			5.00- 9.00	7.08
6.822	6.784	0.038	173	2438			0.00- 1.99	0.60
6.822	6.784	0.038	174	404330			50.01- 100.00	77.75
6.822	6.784	0.038	175	28826			5.00- 9.00	7.13
6.822	6.784	0.038	176	389410			95.01- 100.99	96.31
6.822	6.784	0.038	177	25825			5.00- 9.00	6.63

Date : 27-SEP-2010 19:19

Client ID: BFB

Instrument: msda,i

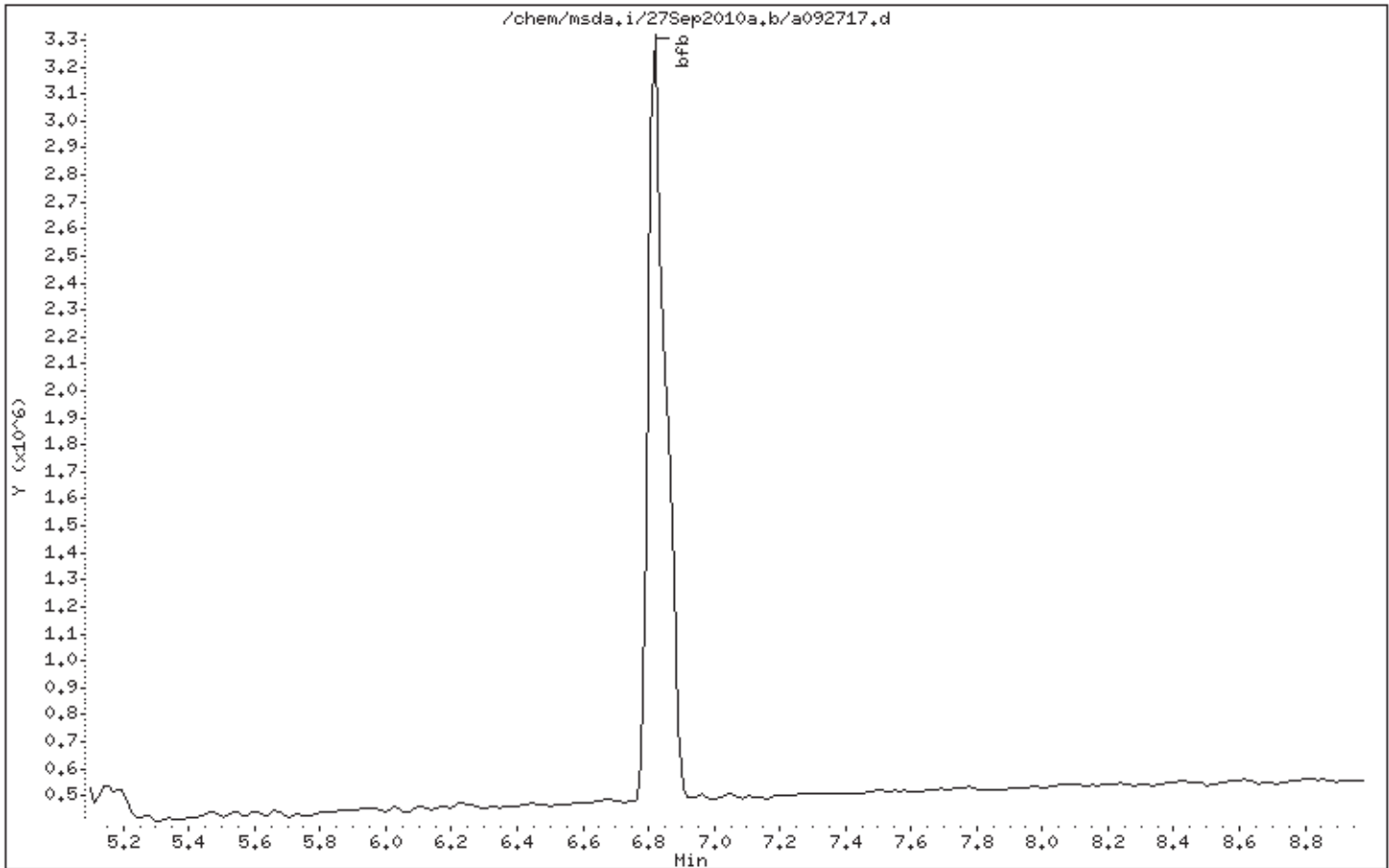
Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00



Date : 27-SEP-2010 19:19

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

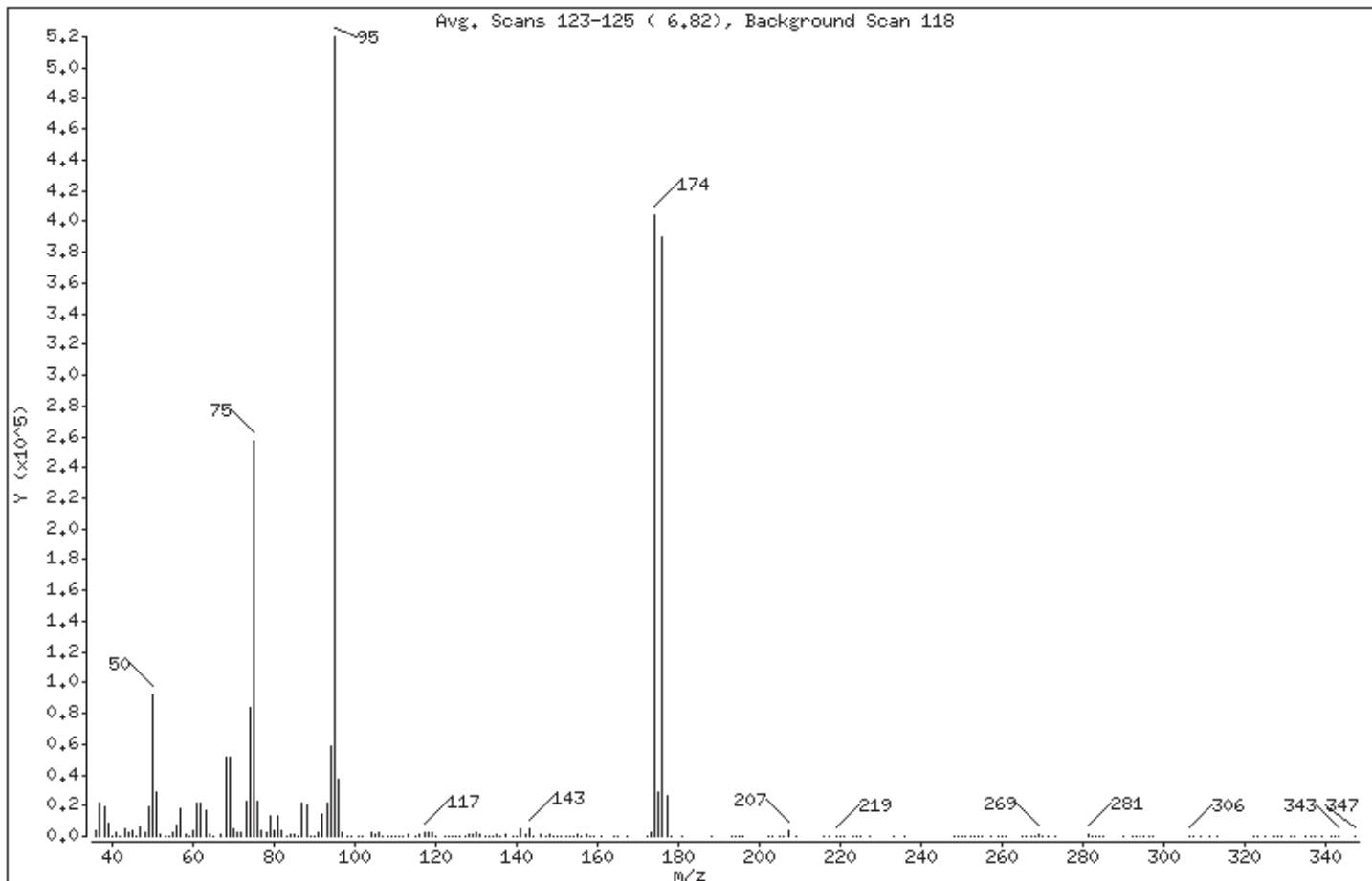
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.69
75	30.00 - 60.00% of mass 95	49.40
96	5.00 - 9.00% of mass 95	7.08
173	Less than 1.99% of mass 174	0.47 (0.60)
174	50.01 - 100.00% of mass 95	77.75
175	5.00 - 9.00% of mass 174	5.54 (7.13)
176	95.01 - 100.99% of mass 174	74.88 (96.31)
177	5.00 - 9.00% of mass 176	4.97 (6.63)

Date : 27-SEP-2010 19:19

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check: BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

Data File: a092717.d

Spectrum: Avg. Scans 123-125 (6.82), Background Scan 118

Location of Maximum: 95.00

Number of points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3841	89.00	184	147.00	275	253.00	280
37.00	21488	90.00	41	148.00	1204	254.00	255
38.00	19120	91.00	2722	149.00	593	255.00	183
39.00	8481	92.00	14434	150.00	476	257.00	76
40.00	117	93.00	20968	151.00	53	259.00	69
41.00	2100	94.00	58704	152.00	137	260.00	139
42.00	557	95.00	520000	153.00	430	261.00	4
43.00	4235	96.00	36840	154.00	266	265.00	145
44.00	2404	97.00	2673	155.00	1089	266.00	56
45.00	3961	98.00	330	156.00	536	267.00	35
46.00	333	99.00	407	157.00	815	268.00	53
47.00	6041	101.00	29	158.00	111	269.00	1072
48.00	2629	102.00	79	159.00	496	270.00	335
49.00	18752	104.00	2011	161.00	343	271.00	520
50.00	92000	105.00	644	164.00	97	273.00	3
51.00	28264	106.00	2045	165.00	54	281.00	872
52.00	1233	107.00	442	167.00	88	282.00	256
53.00	141	108.00	70	172.00	521	283.00	38
54.00	204	109.00	298	173.00	2438	284.00	1
55.00	1890	110.00	252	174.00	404288	285.00	56
56.00	7594	111.00	166	175.00	28824	290.00	128
57.00	17368	112.00	356	176.00	389376	292.00	66
58.00	659	113.00	608	177.00	25824	293.00	37
59.00	344	115.00	453	178.00	573	294.00	195
60.00	3968	116.00	1598	181.00	92	295.00	32
61.00	21704	117.00	2905	188.00	10	296.00	3
62.00	22016	118.00	1883	193.00	65	297.00	56
63.00	16379	119.00	2770	194.00	51	306.00	222
64.00	1537	120.00	137	195.00	318	307.00	43
65.00	441	122.00	144	196.00	6	309.00	170
67.00	1192	123.00	161	202.00	39	311.00	27
68.00	50904	124.00	361	203.00	177	313.00	18
69.00	51904	125.00	33	205.00	107	322.00	333
70.00	4873	126.00	178	206.00	31	323.00	186
71.00	2115	127.00	309	207.00	3698	325.00	89

Date : 27-SEP-2010 19:19

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

Data File: a092717.d

Spectrum: Avg. Scans 123-125 (6.82), Background Scan 118

Location of Maximum: 95.00

Number of points: 204

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	2545	128.00	1487	209.00	107	327.00	352
73.00	22912	129.00	864	216.00	37	328.00	83
74.00	83824	130.00	1797	217.00	90	329.00	85
75.00	256832	131.00	728	219.00	442	331.00	109
76.00	22128	132.00	97	220.00	109	332.00	44
77.00	2989	133.00	61	221.00	149	335.00	66
78.00	2201	134.00	121	223.00	75	336.00	171
79.00	12869	135.00	1425	224.00	198	337.00	29
80.00	4026	136.00	103	225.00	1	339.00	115
81.00	13049	137.00	790	227.00	52	341.00	176
82.00	3655	139.00	116	233.00	72	342.00	98
83.00	356	140.00	473	236.00	204	343.00	355
84.00	692	141.00	4574	248.00	60	347.00	185
85.00	1481	142.00	926	249.00	270		
86.00	566	143.00	4585	250.00	62		
87.00	21552	144.00	463	251.00	25		
88.00	20128	146.00	1287	252.00	86		

Air Toxics Ltd.

Data file : /var/chem/msda.i/28Sep2010.b/a092801.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 28-SEP-2010 19:34
 Operator : ea Inst ID: msda.i
 Smp Info : 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch
 Misc Info : 50ng
 Comment :
 Method : /var/chem/msda.i/28Sep2010.b/bfb60.m
 Meth Date : 28-Sep-2010 19:32 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
6.794	6.784	0.010	95	797952			100.00- 100.00	100.00
6.794	6.784	0.010	50	139270			15.00- 40.00	17.45
6.794	6.784	0.010	75	391874			30.00- 60.00	49.11
6.794	6.784	0.010	96	56814			5.00- 9.00	7.12
6.794	6.784	0.010	173	3441			0.00- 1.99	0.58
6.794	6.784	0.010	174	597135			50.01- 100.00	74.83
6.794	6.784	0.010	175	42283			5.00- 9.00	7.08
6.794	6.784	0.010	176	577448			95.01- 100.99	96.70
6.794	6.784	0.010	177	38959			5.00- 9.00	6.75

Date : 28-SEP-2010 19:34

Client ID: BFB

Instrument: msda.i

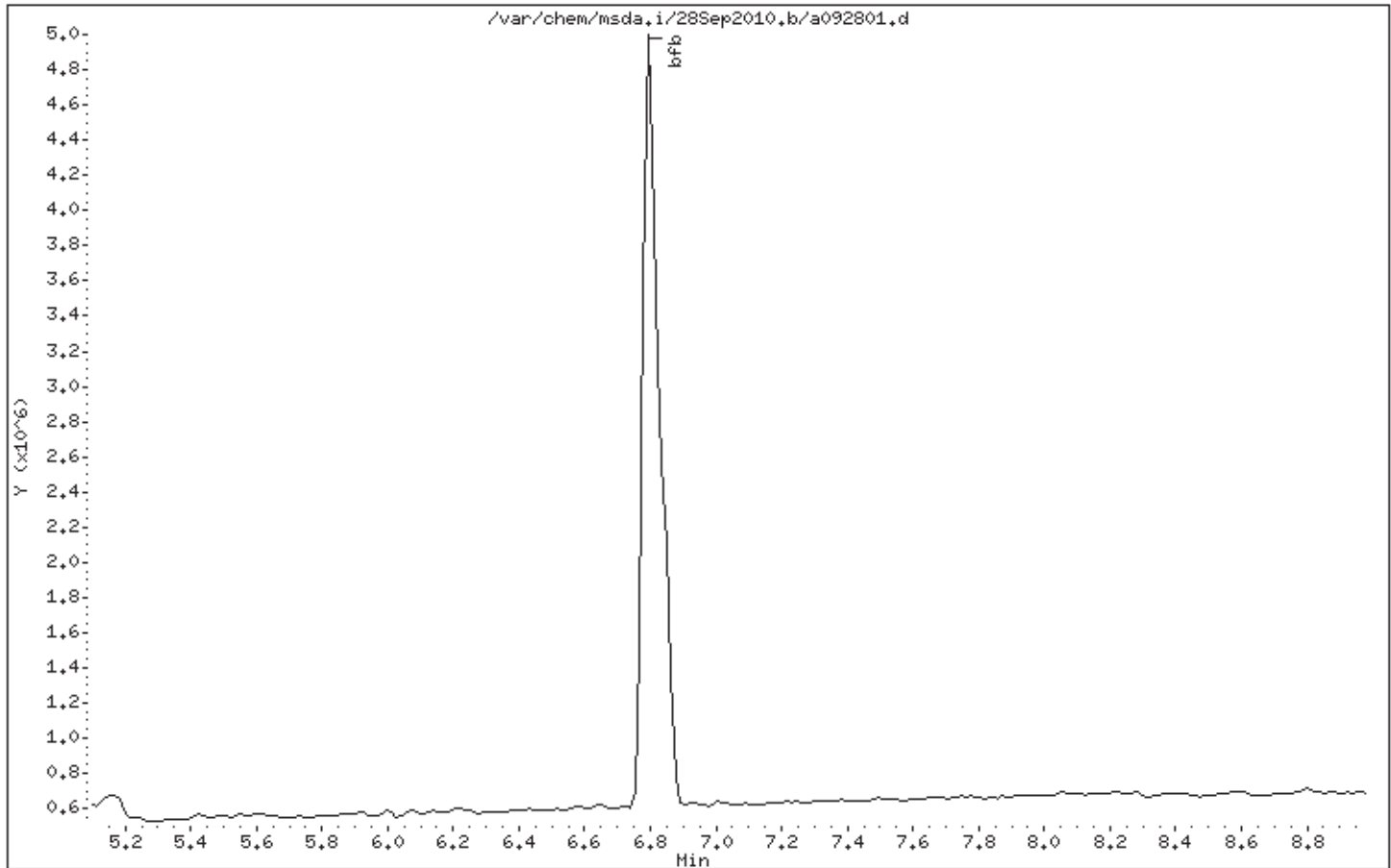
Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00



Date : 28-SEP-2010 19:34

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

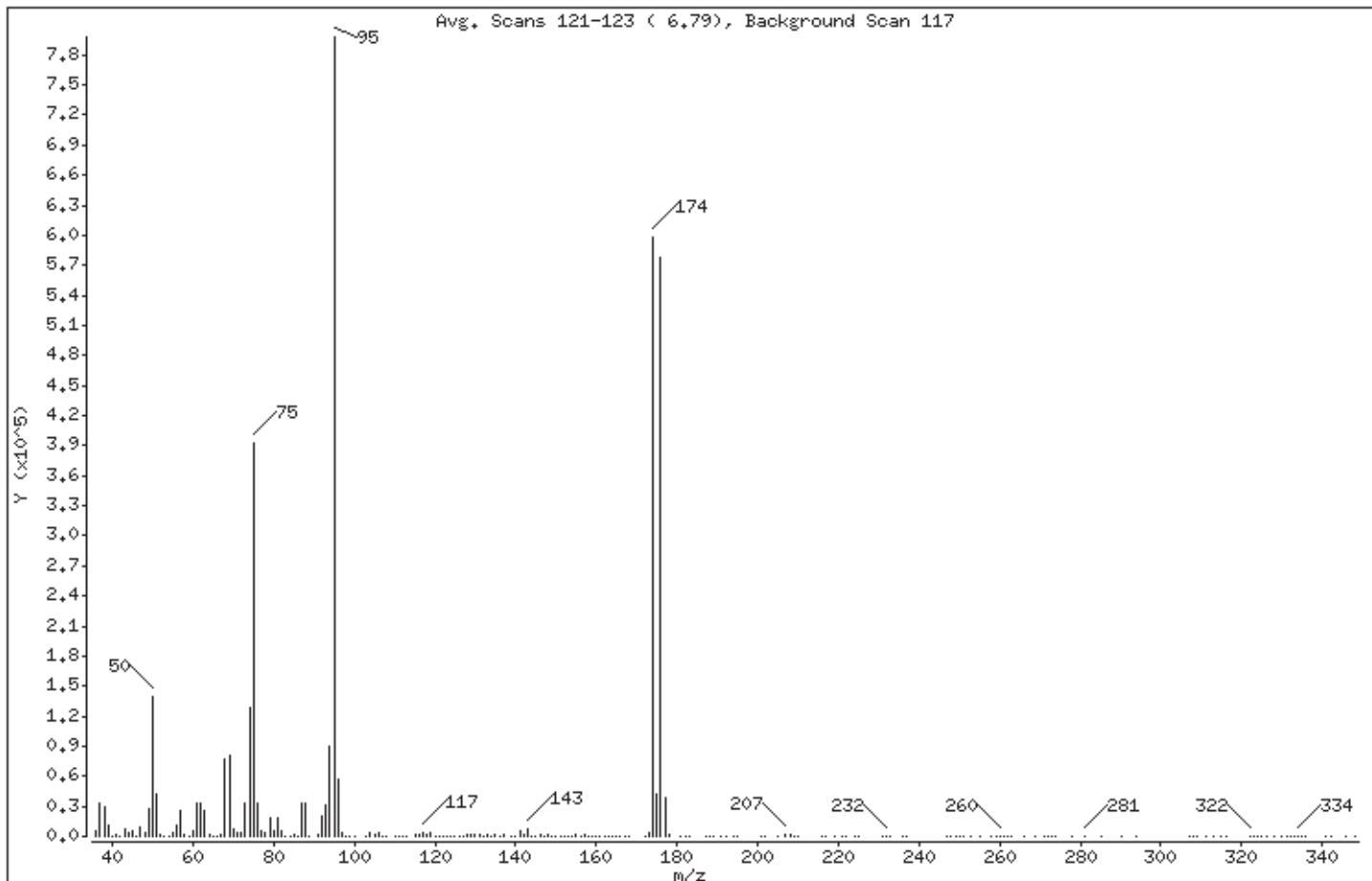
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.45
75	30.00 - 60.00% of mass 95	49.11
96	5.00 - 9.00% of mass 95	7.12
173	Less than 1.99% of mass 174	0.43 (0.58)
174	50.01 - 100.00% of mass 95	74.83
175	5.00 - 9.00% of mass 174	5.30 (7.08)
176	95.01 - 100.99% of mass 174	72.37 (96.70)
177	5.00 - 9.00% of mass 176	4.88 (6.75)

Date : 28-SEP-2010 19:34

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check: BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

Data File: a092801.d

Spectrum: Avg. Scans 121-123 (6.79), Background Scan 117

Location of Maximum: 95.00

Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5640	89.00	80	148.00	1722	232.00	425
37.00	32240	91.00	1996	149.00	349	233.00	92
38.00	29176	92.00	20512	150.00	332	236.00	57
39.00	11854	93.00	31768	151.00	122	237.00	33
40.00	510	94.00	89336	152.00	329	247.00	106
41.00	2665	95.00	797952	153.00	571	248.00	20
42.00	844	96.00	56808	154.00	443	249.00	119
43.00	6428	97.00	3847	155.00	1778	250.00	15
44.00	3784	98.00	589	156.00	202	251.00	72
45.00	6365	99.00	466	157.00	1168	253.00	456
46.00	503	100.00	56	158.00	211	255.00	374
47.00	9197	103.00	637	159.00	661	258.00	239
48.00	3851	104.00	2807	160.00	191	259.00	31
49.00	27912	105.00	1045	161.00	513	260.00	888
50.00	139264	106.00	3002	162.00	164	261.00	23
51.00	42960	107.00	629	163.00	416	262.00	9
52.00	1991	108.00	51	164.00	201	263.00	70
53.00	202	110.00	406	165.00	61	266.00	237
54.00	140	111.00	544	166.00	61	269.00	394
55.00	2862	112.00	467	167.00	48	271.00	23
56.00	11099	113.00	594	168.00	81	272.00	121
57.00	25376	115.00	978	172.00	427	273.00	25
58.00	1009	116.00	2605	173.00	3441	274.00	57
59.00	217	117.00	4367	174.00	597120	278.00	61
60.00	6222	118.00	2451	175.00	42280	281.00	405
61.00	32192	119.00	3897	176.00	577408	285.00	64
62.00	33632	120.00	188	177.00	38952	290.00	17
63.00	25296	121.00	82	178.00	1199	294.00	234
64.00	2291	122.00	137	181.00	181	307.00	10
65.00	325	123.00	86	182.00	70	308.00	54
66.00	147	124.00	512	183.00	64	309.00	87
67.00	1746	125.00	500	187.00	14	311.00	46
68.00	77528	126.00	144	188.00	52	313.00	130
69.00	79816	127.00	293	189.00	334	315.00	50
70.00	7143	128.00	2218	191.00	423	316.00	58

Date : 28-SEP-2010 19:34

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0ul #1476-1754; BFB Tune Check; BFB Tune Ch

Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

Data File: a092801.d

Spectrum: Avg. Scans 121-123 (6.79), Background Scan 117

Location of Maximum: 95.00

Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	2970	129.00	1168	192.00	152	322.00	536
72.00	3978	130.00	2451	194.00	140	323.00	212
73.00	33512	131.00	1099	195.00	466	324.00	83
74.00	128352	132.00	20	201.00	51	325.00	181
75.00	391872	133.00	1137	202.00	70	326.00	103
76.00	33704	134.00	311	205.00	211	328.00	157
77.00	4591	135.00	1078	207.00	2573	330.00	75
78.00	3014	136.00	193	208.00	920	331.00	273
79.00	18936	137.00	1091	209.00	189	332.00	74
80.00	6249	139.00	104	210.00	36	333.00	80
81.00	19248	140.00	755	216.00	39	334.00	341
82.00	5013	141.00	6411	217.00	5	335.00	244
83.00	482	142.00	1178	219.00	382	336.00	39
84.00	682	143.00	6756	221.00	297	341.00	326
85.00	2302	144.00	409	222.00	24	342.00	151
86.00	774	145.00	316	224.00	46	346.00	119
87.00	33568	146.00	1719	225.00	170	348.00	54
88.00	32624	147.00	498	231.00	59		

Shipping/ Receiving Documents

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Discrepancies below.

In order to expedite analysis and reporting, please review the attached information for
For corrections ca **Karen Lopez at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
 Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Melissa Kiever
 Collected by: (Print and Sign) Keri Whetter
 Company Expansion Email mkiever@expansion.com
 Address 15375 SE 30th Pl City Bellevue State WA Zip 98009
 Phone (425) 519-8774 Fax (425) 519-8799

Project Info:
 P.O. # —
 Project # 0907194.000.0661
 Project Name Regular - 1st

Turn Around Time:
 Normal
 Rush
 Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: _____
 specify _____
 N₂ He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
01A	ALF-3	5614	9-7-10	1505	TD-15 SIM	28.5	7.0	
02A	ALF-2	34026		1508		30.0	9.0	
03A	ALF-1	94571		1510		29.5	7.0	
04A	ALF-4	14012		1513		29.0	7.0	
05A	ALF-5	31148		1516		29.5	8.0	
06A	AOS-1	5572		1541		27.0	5.0	
07A	AOS-2	34351		1544		28.0	5.5	
08A	AOS-3	12711		1601		28.5	6.0	
09A	EB-090810	34479	9-8-10	1517	TD-15 SIM	22.5	6.0	
10A	TR-090810	13668			TD-15 SIM	29.0		
Relinquished by: (signature) <u>[Signature]</u>		Date/Time	Received by: (signature) <u>[Signature]</u>		Date/Time	Notes: <u>complete SILVANT delay ON TS-15 SIM</u>		
Relinquished by: (signature) <u>[Signature]</u>		Date/Time	Received by: (signature) <u>[Signature]</u>		Date/Time	Notes: <u>EB-090810 = Equipment blank</u> <u>TR-090810 = Trip blank</u>		
Relinquished by: (signature) _____		Date/Time	Received by: (signature) _____		Date/Time	Notes: _____		

Shipper Name Exp Ex Air Bill # _____ Temp (°C) NA Condition GOOD Custody Seals Intact? None Work Order # 1009208

SAMPLE RECEIPT SUMMARY

WORKORDER 1009208

Client	Phone	Date Promised: 10/07/10
Ms. Keri Whetter	425-519-8750	Date Completed: 10/6/10
Exponent		Date Received: 9/10/10
15375 SE 30th Place	Fax	PO#: S29-C083-2-2010
Suite 250	425-643-9827	Project#: 0907194.000.0601 Heglar - Kronquist
Bellevue, WA 98007		Total \$: \$ 3,630.00
Sales Rep: JJM		Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	ALF-3	Modified TO-15	9/7/2010	6.5 "Hg	\$230.00
01B	ALF-3	Modified TO-15	9/7/2010	6.5 "Hg	\$0.00
02A	ALF-2	Modified TO-15	9/7/2010	7.5 "Hg	\$230.00
02B	ALF-2	Modified TO-15	9/7/2010	7.5 "Hg	\$0.00
03A	ALF-1	Modified TO-15	9/7/2010	6.5 "Hg	\$230.00
03B	ALF-1	Modified TO-15	9/7/2010	6.5 "Hg	\$0.00
04A	ALF-4	Modified TO-15	9/7/2010	7.0 "Hg	\$230.00
04B	ALF-4	Modified TO-15	9/7/2010	7.0 "Hg	\$0.00
05A	ALF-5	Modified TO-15	9/7/2010	7.5 "Hg	\$230.00
05B	ALF-5	Modified TO-15	9/7/2010	7.5 "Hg	\$0.00
06A	AOS-1	Modified TO-15	9/7/2010	6.5 "Hg	\$230.00
06B	AOS-1	Modified TO-15	9/7/2010	6.5 "Hg	\$0.00
07A	AOS-2	Modified TO-15	9/7/2010	5.0 "Hg	\$230.00
07B	AOS-2	Modified TO-15	9/7/2010	5.0 "Hg	\$0.00
08A	AOS-3	Modified TO-15	9/7/2010	6.5 "Hg	\$230.00
08B	AOS-3	Modified TO-15	9/7/2010	6.5 "Hg	\$0.00
09A	EB-090810	Modified TO-15	9/8/2010	5.5 "Hg	\$230.00
09B	EB-090810	Modified TO-15	9/8/2010	5.5 "Hg	\$0.00
10A	TB-090810	Modified TO-15	NA	28.5 "Hg	\$230.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
 Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Keri Whetter
 Exponent
 15375 SE 30th Place
 Suite 250
 Bellevue, WA 98007

Analysis Code: pptv

TERMS:

Reporting Method: Modified TO-15 Hi/Lo (Sh)-Exponent (Heglar Kronquist)

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

SAMPLE RECEIPT SUMMARY Continued

Client	Phone	Date Promised: 10/07/10
Ms. Keri Whetter	425-519-8750	Date Completed: 10/6/10
Exponent		Date Received: 9/10/10
15375 SE 30th Place	Fax	PO#: S29-C083-2-2010
Suite 250	425-643-9827	Project#: 0907194.000.0601 Heglar - Kronquist
Bellevue, WA 98007		Total \$: \$ 3,630.00
Sales Rep: JJM		Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
10B	TB-090810	Modified TO-15	NA	28.5 "Hg	\$0.00
11A	Lab Blank	Modified TO-15	NA	NA	\$0.00
11B	Lab Blank	Modified TO-15	NA	NA	\$0.00
11C	Lab Blank	Modified TO-15	NA	NA	\$0.00
11D	Lab Blank	Modified TO-15	NA	NA	\$0.00
12A	CCV	Modified TO-15	NA	NA	\$0.00
12B	CCV	Modified TO-15	NA	NA	\$0.00
12C	CCV	Modified TO-15	NA	NA	\$0.00
12D	CCV	Modified TO-15	NA	NA	\$0.00
13A	LCS	Modified TO-15	NA	NA	\$0.00
13AA	LCSD	Modified TO-15	NA	NA	\$0.00
13B	LCS	Modified TO-15	NA	NA	\$0.00
13BB	LCSD	Modified TO-15	NA	NA	\$0.00
13C	LCS	Modified TO-15	NA	NA	\$0.00
13CC	LCSD	Modified TO-15	NA	NA	\$0.00
13D	LCS	Modified TO-15	NA	NA	\$0.00
13DD	LCSD	Modified TO-15	NA	NA	\$0.00

Misc. Charges 6 Liter Summa Canister (3) @ \$45.00 each., Shipment 72929 \$135.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
 Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Keri Whetter
 Exponent
 15375 SE 30th Place
 Suite 250
 Bellevue, WA 98007 Analysis Code: pptv

TERMS:

Reporting Method: Modified TO-15 Hi/Lo (Sh)-Exponent (Heglar Kronquist)

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

SAMPLE RECEIPT SUMMARY Continued

Client	Phone	Date Promised:
Ms. Keri Whetter	425-519-8750	Date Completed: 10/6/10
Exponent		Date Received: 9/10/10
15375 SE 30th Place	Fax	PO#: S29-C083-2-2010
Suite 250	425-643-9827	Project#: 0907194.000.0601 Heglar - Kronquist
Bellevue, WA 98007		Total \$: \$ 3,630.00
Sales Rep:		Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
	6 Liter Summa Canister (100% Certified) (1) @ \$45.00 each., Shipmer				\$45.00
	6 Liter Summa Canister (SIM Certified) (12) @ \$85.00 each., Shipmer				\$1,020.00
	Blue Body Flow Controller (2) @ \$25.00 each., Shipment 72929				\$50.00
	Blue Body Flow Controller (SIM Certified) (12) @ \$.00 each.				\$0.00
	Tubing-Teflon (40) @ \$2.00 each.				\$80.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
 Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Keri Whetter
 Exponent
 15375 SE 30th Place
 Suite 250
 Bellevue, WA 98007

Analysis Code: pptv

TERMS:

Reporting Method: Modified TO-15 Hi/Lo (Sh)-Exponent (Heglar Kronquist)

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

@ Air Toxics Ltd	Title: Sample Discrepancy Report			Release Date: 03/03/10
	Form #: F1.3	Revision #: 1	Revision Date: 10/7/08	Page #: 1 of 2

Sample Discrepancy Report

Identification

Initiated By: MW Project ID: 14301 PM: KL Date: 9/10/2010 Discrepancy Type: 1. 2. 3.

Workorder(s) affected: 1009208 Sample(s) affected: All

1. Sample Receipt Discrepancies

Narration Not Required:

- 1.1. Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- 1.2. No brass cap on canister.
- 1.3. Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

- 1.4. Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

- 1.5. COC was not filled out in ink.
- 1.6. COC improperly relinquished / received.
- 1.7. Sample tags / can numbers do not match the COC.
- 1.8. Sample date error / missing on COC but noted on sample tag (check one).
- 1.9. Custody Seal on the outside of the container was broken / improperly placed (check one).
- 1.10. ID-none on the sample Tag/Blank
- 1.11. Other (describe below).

Describe the Discrepancy: _____

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

- | | |
|---|---|
| <ul style="list-style-type: none"> 2.1. <input type="checkbox"/> COC was not received with samples. 2.2. <input checked="" type="checkbox"/> Analysis method(s) is <input type="checkbox"/> not specified / <input checked="" type="checkbox"/> incorrectly specified (check one) on the COC. 2.3. <input type="checkbox"/> Incorrect sampling media / container for analysis requested. 2.4. <input type="checkbox"/> Number of samples on the COC does not match the number of samples that were received. 2.5. <input type="checkbox"/> Samples were received expired. 2.6. <input type="checkbox"/> Sampling date (time for sulfur) is not documented for <input type="checkbox"/> <u>some</u> / <input type="checkbox"/> <u>any</u> samples (check one). 2.7. <input type="checkbox"/> Sample received with amount of H₂O in the Tedlar Bag. 2.8. <input type="checkbox"/> Sample cannot be analyzed. Container was <input type="checkbox"/> received broken / <input type="checkbox"/> leaking / <input type="checkbox"/> flat / <input type="checkbox"/> defective. 2.9. <input type="checkbox"/> Tedlar bag / canister received emitting a strong odor; Sample <input type="checkbox"/> can / <input type="checkbox"/> cannot (check one) be analyzed. 2.10. <input type="checkbox"/> Tedlar Bag for Sulfur analysis has metal fitting. 2.11. <input type="checkbox"/> Environmental Supply Company valves 2.12. <input type="checkbox"/> Sorbent samples-sampling volume was not provided | <ul style="list-style-type: none"> 2.13. <input type="checkbox"/> Flow controller used – canister samples received at ambient or under pressure. 2.14. <input type="checkbox"/> Canister was at ambient pressure at time of pressurization and (check all that apply):
 <input type="checkbox"/> Canister failed leak check on two manifolds,
 <input type="checkbox"/> Canister valve was open,
 <input type="checkbox"/> Brass nut was loose/not present.
 <input type="checkbox"/> Sample can be analyzed
 <input type="checkbox"/> Cannot be analyzed 2.15. <input type="checkbox"/> Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum. 2.16. <input type="checkbox"/> Canister sample received at >15"Hg (<u>not</u> identified as a Trip/Field Blank). 2.17. <input type="checkbox"/> Canister Trip Blank received at low vacuum (< 25"Hg). 2.18. <input type="checkbox"/> Sorbent Sample received outside method required temperature of 2°C to 6°C; <input type="checkbox"/> ice / <input type="checkbox"/> blue ice (check one) was present. A temp. Blank <input type="checkbox"/> was / <input type="checkbox"/> was not present (check one). 2.19. <input type="checkbox"/> Other (describe below) |
|---|---|

Initials : _____ Date: _____ Notify Receiving: Notify PM:

Describe the Discrepancy: requesting SIM but will set up for Hi/Lo per KL

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

- 3.1. Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (check one) be analyzed.
- 3.2. Tedlar Bag found to be flat/low volume; sample cannot be analyzed.
- 3.3. Sulfur samples received with insufficient time to analyze prior to expiration.
- 3.4. Canister found to be leaking at the time of analysis.
- 3.5. VOST tube saturated; bag dilution necessary.
- 3.6. Sample loss due to instrument malfunction / broken glassware.
- 3.7. Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.
- 3.8. Reporting Limit was raised.
- 3.9. Post weight > Pre weight in field/lab Blank for PM10/TSP samples.
- 3.10. Other (describe below).

Initials

: _____ Date: _____ Notify Receiving: Notify PM:

Team Lead Initials: _____ Date: _____

Describe the Discrepancy: _____

How Does this Affect Client: _____

Project Manager Use Only

Project Manager Notification Complete

Section 2 Complete

Section 3

Action:

It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials: KL Date: 9/13/2010

Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials: _____ Person notified: _____ Date: _____

Waiting for Client Reply

Comments: _____

Notify Lab Name: _____ Date: _____ **Notify Receiving:**

Additional notifications attached.

Additional Comments:

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound List

Modified TO-15 Hi/Lo (Sh)-Exponent (Heglar Kronquist)

CAS Number	Compound	Detection Limit	Type
		ppbv	
75-01-4	Vinyl Chloride	0.010	
75-35-4	1,1-Dichloroethene	0.010	
75-34-3	1,1-Dichloroethane	0.020	
156-59-2	cis-1,2-Dichloroethene	0.020	
71-55-6	1,1,1-Trichloroethane	0.020	
71-43-2	Benzene	0.050	
107-06-2	1,2-Dichloroethane	0.020	
79-01-6	Trichloroethene	0.020	
108-88-3	Toluene	0.020	
79-00-5	1,1,2-Trichloroethane	0.020	
127-18-4	Tetrachloroethene	0.020	
100-41-4	Ethyl Benzene	0.020	
108-38-3	m,p-Xylene	0.040	
95-47-6	o-Xylene	0.020	
79-34-5	1,1,2,2-Tetrachloroethane	0.020	
156-60-5	trans-1,2-Dichloroethene	0.10	
1634-04-4	Methyl tert-butyl ether	0.10	
75-71-8	Freon 12	0.10	
76-14-2	Freon 114	0.10	
74-87-3	Chloromethane	0.10	
106-99-0	1,3-Butadiene	0.10	
74-83-9	Bromomethane	0.10	
75-00-3	Chloroethane	0.10	
75-69-4	Freon 11	0.10	
64-17-5	Ethanol	0.50	
76-13-1	Freon 113	0.10	
67-64-1	Acetone	0.50	
67-63-0	2-Propanol	0.50	
75-15-0	Carbon Disulfide	0.50	
107-05-1	3-Chloropropene	0.50	
75-09-2	Methylene Chloride	0.20	
110-54-3	Hexane	0.10	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.10	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.10	
110-82-7	Cyclohexane	0.10	
56-23-5	Carbon Tetrachloride	0.10	
540-84-1	2,2,4-Trimethylpentane	0.50	
142-82-5	Heptane	0.10	
78-87-5	1,2-Dichloropropane	0.10	
123-91-1	1,4-Dioxane	0.10	
75-27-4	Bromodichloromethane	0.10	
10061-01-5	cis-1,3-Dichloropropene	0.10	
108-10-1	4-Methyl-2-pentanone	0.10	
10061-02-6	trans-1,3-Dichloropropene	0.10	
591-78-6	2-Hexanone	0.50	

Compound List

Modified TO-15 Hi/Lo (Sh)-Exponent (Heglar Kronquist)

CAS Number	Compound	Detection Limit	Type
		ppbv	
124-48-1	Dibromochloromethane	0.10	
106-93-4	1,2-Dibromoethane (EDB)	0.10	
108-90-7	Chlorobenzene	0.10	
100-42-5	Styrene	0.10	
75-25-2	Bromoform	0.10	
98-82-8	Cumene	0.10	
103-65-1	Propylbenzene	0.10	
622-96-8	4-Ethyltoluene	0.10	
108-67-8	1,3,5-Trimethylbenzene	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.10	
541-73-1	1,3-Dichlorobenzene	0.10	
106-46-7	1,4-Dichlorobenzene	0.10	
100-44-7	alpha-Chlorotoluene	0.10	
95-50-1	1,2-Dichlorobenzene	0.10	
120-82-1	1,2,4-Trichlorobenzene	0.50	
87-68-3	Hexachlorobutadiene	0.50	
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		
460-00-4	4-Bromofluorobenzene		



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Media Certification Report

Canister Number: 6L#5614w/11.5mL#FC00671

Can#: 74517-5614

Date: 08/27/10 6:59

Data File: s082630sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1,3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1,2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	106.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	93.00	% Recovery



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Media Certification Report

Canister Number: 6L#5614w/11.5mL#FC00671

Can#: 74517-5614a

Date : 08/27/10 6:59

Data File: s082630sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	110.00	% Recovery
Toluene-d8	2037-26-5	98.00	% Recovery
4-Bromofluorobenzene	460-00-4	92.00	% Recovery



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Media Certification Report

Canister Number: 6L#34026w/11.5mL#6533

Can#: 74517-34026

Date: 08/27/10 4:32

Data File: s082626sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,1,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	96.00	% Recovery



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Media Certification Report

Canister Number: 6L#34026w/11.5mL#6536
Can#: 74517-34026a
Date: 08/27/10 4:32
Data File: s082626sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	110.00	% Recovery
Toluene-d8	2037-26-5	98.00	% Recovery
4-Bromofluorobenzene	460-00-4	96.00	% Recovery



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Media Certification Report

Canister Number: 6L#94571 w11.5mL #FC00602

Can#: 74517-94571

Date : 08/27/10 16:01

Data File: s082707sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,1,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	97.00	% Recovery
4-Bromofluorobenzene	460-00-4	100.00	% Recovery



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Media Certification Report

Canister Number: 6L#94571 w11.5mL #FC00602

Can#: 74517-94571a

Date : 08/27/10 16:01

Data File: s082707sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	108.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	100.00	% Recovery



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Media Certification Report

Canister Number: 6L#14012w/11.5mL#FCC0860

Can#: 74517-14012

Date : 08/27/10 5:45

Data File: s082628sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	106.00	% Recovery
Toluene-d8	2037-26-5	101.00	% Recovery
4-Bromofluorobenzene	460-00-4	94.00	% Recovery



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Media Certification Report

Canister Number: 6L#14012w/11.5mL#FC00860

Can#: 74517-14012a

Date : 08/27/10 5:45

Data File: s082628sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	109.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	93.00	% Recovery



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Media Certification Report

Canister Number: 6L#31148 w11.5mL #FC00496

Can#: 74517-31148

Date : 08/27/10 17:14

Data File: s082709sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propyltenezene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,1,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	106.00	% Recovery
Toluene-d8	2037-26-5	97.00	% Recovery
4-Bromofluorobenzene	460-00-4	100.00	% Recovery



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Media Certification Report

Canister Number: 6L#31148 w11.5mL #FC00496
Can#: 74517-31148a
Date : 08/27/10 17:14
Data File: s082709sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	106.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	100.00	% Recovery



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Media Certification Report

Canister Number: 6L#5572w/11.5mL#FC00797

Can#: 74517-5572

Date : 08/27/10 8:12

Data File: s082632sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	108.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	99.00	% Recovery



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Media Certification Report

Canister Number: 6L#5572w/11.5mL#FC00797

Can#: 74517-5572a

Date : 08/27/10 8:12

Data File: s082632sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	111.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	98.00	% Recovery



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Media Certification Report

Canister Number: 6L#34351 w11.5mL #6672

Can#: 74517-34351

Date : 08/27/10 19:03

Data File: s082712sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,1,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	97.00	% Recovery
4-Bromofluorobenzene	460-00-4	97.00	% Recovery



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Media Certification Report

Canister Number: 6L#34351 w11.5mL #6672

Can#: 74517-34351a

Date : 08/27/10 19:03

Data File: s082712sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	97.00	% Recovery



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Media Certification Report

Canister Number: 6L#12711 w11.5mL #FC00236

Can#: 74517-12711

Date : 08/27/10 15:24

Data File: s082706sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,1,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	96.00	% Recovery
4-Bromofluorobenzene	460-00-4	99.00	% Recovery



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Media Certification Report

Canister Number: 6L#12711 w11.5mL #FC00236

Can#: 74517-12711a

Date : 08/27/10 15:24

Data File: s082706sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	107.00	% Recovery
Toluene-d8	2037-26-5	98.00	% Recovery
4-Bromofluorobenzene	460-00-4	99.00	% Recovery



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Media Certification Report

Canister Number: 6L#34479w/11.5mL#01018

Can#: 74517-34479

Date: 08/27/10 5:09

Data File: s082627sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propyltenezene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	106.00	% Recovery
Toluene-d8	2037-26-5	100.00	% Recovery
4-Bromofluorobenzene	460-00-4	93.00	% Recovery



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1-800-985-5955

Media Certification Report

Canister Number: 6L#34479w/11.5mL#01018

Can#: 74517-34479a

Date : 08/27/10 5:09

Data File: s082627sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	109.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	92.00	% Recovery



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1-800-985-5955

Media Certification Report

Canister Number: 6L#13668w/11.5mL#FC00964

Can#: 74517-13668

Date : 08/27/10 7:36

Data File: s082631sim.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
Styrene	100-42-5	ND	ppbv
alpha-Chlorotoluene	100-44-7	ND	ppbv
cis-1,3-Dichloropropene	10061-01-5	ND	ppbv
trans-1 3-Dichloropropene	10061-02-6	ND	ppbv
Propylbenzene	103-65-1	ND	ppbv
1,4-Dichlorobenzene	106-46-7	ND	ppbv
1,2-Dibromoethane (EDB)	106-93-4	ND	ppbv
1,3-Butadiene	106-99-0	ND	ppbv
3-Chloropropene	107-05-1	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
4-Methyl-2-pentanone	108-10-1	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
1,3,5-Trimethylbenzene	108-67-8	ND	ppbv
Toluene	108-88-3	ND	ppbv
Chlorobenzene	108-90-7	ND	ppbv
Tetrahydrofuran	109-99-9	ND	ppbv
Hexane	110-54-3	ND	ppbv
Cyclohexane	110-82-7	ND	ppbv
1,2,4-Trichlorobenzene	120-82-1	ND	ppbv
1,4-Dioxane	123-91-1	ND	ppbv
Dibromochloromethane	124-48-1	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
Heptane	142-82-5	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
trans-1 2-Dichloroethene	156-60-5	ND	ppbv
Methyl tert-butyl ether	1634-04-4	ND	ppbv
2,2,4-Trimethylpentane	540-84-1	ND	ppbv
1,3-Dichlorobenzene	541-73-1	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
2-Hexanone	591-78-6	ND	ppbv
4-Ethyltoluene	622-96-8	ND	ppbv
Ethanol	64-17-5	ND	ppbv
2-Propanol	67-63-0	ND	ppbv
Acetone	67-64-1	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Bromomethane	74-83-9	ND	ppbv
Chloromethane	74-87-3	ND	ppbv
Chloroethane	75-00-3	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
Methylene Chloride	75-09-2	ND	ppbv

Name	CAS	Conc.	Units
Carbon Disulfide	75-15-0	ND	ppbv
Bromoform	75-25-2	ND	ppbv
Bromodichloromethane	75-27-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
Freon 11	75-69-4	ND	ppbv
Freon 12	75-71-8	ND	ppbv
Freon 113	76-13-1	ND	ppbv
Freon 114	76-14-2	ND	ppbv
1,2-Dichloropropane	78-87-5	ND	ppbv
2-Butanone (Methyl Ethyl	78-93-3	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
Hexachlorobutadiene	87-68-3	ND	ppbv
Naphthalene	91-20-3	ND	ppbv
o-Xylere	95-47-6	ND	ppbv
1,2-Dichlorobenzene	95-50-1	ND	ppbv
1,2,4-Trimethylbenzene	95-63-6	ND	ppbv
Cumene	98-82-8	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	109.00	% Recovery
Toluene-d8	2037-26-5	99.00	% Recovery
4-Bromofluorobenzene	460-00-4	95.00	% Recovery



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Media Certification Report

Canister Number: 6L#13668w/11.5mL#FC00964

Can#: 74517-13668a

Date : 08/27/10 7:36

Data File: s082631sima.d

Name	CAS	Conc.	Units
Ethyl Benzene	100-41-4	ND	ppbv
1,2-Dichloroethane	107-06-2	ND	ppbv
m,p-Xylene	108-38-3	ND	ppbv
Toluene	108-88-3	ND	ppbv
Tetrachloroethene	127-18-4	ND	ppbv
cis-1,2-Dichloroethene	156-59-2	ND	ppbv
Carbon Tetrachloride	56-23-5	ND	ppbv
Chloroform	67-66-3	ND	ppbv
Benzene	71-43-2	ND	ppbv
1,1,1-Trichloroethane	71-55-6	ND	ppbv
Vinyl Chloride	75-01-4	ND	ppbv
1,1-Dichloroethane	75-34-3	ND	ppbv
1,1-Dichloroethene	75-35-4	ND	ppbv
1,1,2-Trichloroethane	79-00-5	ND	ppbv
Trichloroethene	79-01-6	ND	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	ND	ppbv
o-Xylene	95-47-6	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0	113.00	% Recovery
Toluene-d8	2037-26-5	98.00	% Recovery
4-Bromofluorobenzene	460-00-4	94.00	% Recovery

DATA REVIEW CHECKLIST

Work Order #: 1009208

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | The final report has the correct reporting list, special units, and header info. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Non-Standard sublist printed/verified, LOQ and LOD verified |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct) |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sample Discrepancy Report (SDR) is completed |

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Corrective Action issued - # _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Unusual circumstances have been documented in the notes section below |
- LUMEN validation report present and initialed CIRCLE (YES/NO)

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Lab Blank, CCV, LCS and DUP met QC criteria |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Hold time is met for all samples |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Appropriate data qualifier flags are applied |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Manual integrations for samples and QC are properly documented |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Samples analyzed within the project or method specific clock |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Retention times have been verified |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Appropriate ICAL(s) included, %RSD Recalculation |

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | At least one result per sample is verified against the target quant sheets/raw data |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s)) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Correct amount of sample analyzed (i.e. sample not over-diluted) |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg) |

OK
OK
OK

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TICs resemble reference spectra |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TICs between duplicate samples are consistent |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field Trip Blank, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Data for multiple analyses of sample(s) has been evaluated for comparability of results |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Special units for all samples in the final report are correctly calculated |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Manually entered results checked (i.e. TPH/NMOC) |

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels) |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chain of Custody scanned correctly |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify sample id's vs. chain of custody |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Date MDL(s) performed per instrument(s) <u>11/23/10</u> |

- | | | | | | | |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Samples pressurized w/ appropriate gas (N ₂ or He) <input type="checkbox"/> Other (i.e. Tedlar bag, cartridge, sorbent) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final pressure consistent with canister size (6L vs. 1L) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify receipt pressures |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify canister ID #'s |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.) |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final PDF report reviewed for correctness |

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)

A/R: Print in QC (Hi/Lo) 9/28/10; Print in QC (hi/lo) 09/29/10
LCS/DIAPB LCS/LCSD
Solvent delay Solvent delay

T/O: _____

A ₁ /A ₂ (Analytical Review/Date)	W/T (Write-up/Tech Review/Date)	R* (Report Review/Date)	Q (QA Review/Date)
A ₁ : <u>Callahan 09/29/10</u>	W: <u>RJA/AB/10-6-10</u>	R:	
A ₂ :	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
 Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.
 * Report Review is completed for DoD & Client Specific projects only.

0724 of 0725

Not Applicable



**Air
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Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified Siloxanes

INVENTORY SHEET

Work Order #: 1009288

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b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
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Comments:

Completed by:

Kara McKiernan

Kara McKiernan / Document Control

9/29/10

(Signature)

(Print Name & Title)

(Date)

WORK ORDER #: 1009288

Work Order Summary

CLIENT:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	BILL TO:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8750	P.O. #	S29-C083-2-2010
FAX:	425-643-9827	PROJECT #	0907194.000.0601 Heglar-Kronquist
DATE RECEIVED:	09/15/2010	CONTACT:	Karen Lopez
DATE COMPLETED:	09/27/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01AB	EB-091410 (Front/Back)	Modified Siloxanes
02A	Lab Blank	Modified Siloxanes
03A	LCS	Modified Siloxanes
03AA	LCSD	Modified Siloxanes

CERTIFIED BY:



Laboratory Director

DATE: 09/27/10

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Siloxanes
Exponent
Workorder# 1009288

Two Vial samples were received on September 15, 2010. The laboratory performed analysis for siloxanes by GC/MS. A sample volume of 1.0 uL was injected directly onto the GC column. Initial results are in ug/mL. The units are converted to total micrograms (ug) by multiplying the result (ug/mL) by the total volume (mL) contained in the impinger. See the data sheets for the reporting limits for each compound.

Receiving Notes

Samples EB-091410 (Front/Back) were placed on hold per the client's request.

Samples EB-091410 (Front/Back) were removed from "Hold" and placed on "Active" status per client request on 9/21/10.

Analytical Notes

Impinger volumes were measured at the laboratory using a graduated cylinder and documented in the analytical logbook.

A front and back impinger was received for each sample. Each impinger was analyzed separately. The results for each analyte were then additively combined and reported as a single concentration. The reported surrogate recovery is derived from the front impinger analysis only.

Sampling volume was supplied by the client. A sample volume of 5.04 L was assumed for all QC samples.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated Value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	Sample Condition
EB-091410 (Front/Back)	1009288-01AB	9/14/2010	9/15/2010	NA	9	9/23/2010	NA	Good
Lab Blank	1009288-02A	NA	NA	NA	NA	9/23/2010	NA	Good
LCS	1009288-03A	NA	NA	NA	NA	9/23/2010	NA	Good
LCSD	1009288-03AA	NA	NA	NA	NA	9/23/2010	NA	Good

Sample Results and Raw Data



Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: EB-091410 (Front/Back)

Lab ID#: 1009288-01AB

No Detections Were Found.



Client Sample ID: EB-091410 (Front/Back)

Lab ID#: 1009288-01AB

SILOXANES - GC/MS

File Name:	k092308	Date of Collection:	9/14/10 4:30:00 PM
Dil. Factor:	1.00	Date of Analysis:	9/23/10 12:22 PM

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	27	Not Detected	5300	Not Detected
Decamethylcyclopentasiloxane (D5)	27	Not Detected	5300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	54	Not Detected	11000	Not Detected
Hexamethyldisiloxane	27	Not Detected	5300	Not Detected
Octamethyltrisiloxane	27	Not Detected	5300	Not Detected

Air Sample Volume(L): 5.04

Impinger Total Volume(mL): 26.9

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	100	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k23sep10.b/k092308.d
 Lab Smp Id: 1009288-01AB
 Inj Date : 23-SEP-2010 12:22
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1009288-01A;
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k23sep10.b/k10k0826.m
 Meth Date : 23-Sep-2010 11:06 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 13.30000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (uG/mL)	FINAL (ug)
* 3 Benzene-d6	84	2.818	2.829	(1.000)	949754	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.869	2.870	(1.018)	1485889	40.0437	40.0
5 hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6 Toluene-d8	98	4.991	5.002	(1.000)	804054	40.0000	
7 octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8 4-Bromofluorobenzene	174	8.262	8.273	(1.000)	220701	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10 deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165 Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i
 Lab File ID: k092308.d
 Lab Smp Id: 1009288-01AB
 Analysis Type: SV
 Quant Type: ISTD
 Operator: CRL
 Method File: /chem/msdk.i/k23sep10.b/k10k0826.m
 Misc Info:

Calibration Date: 23-SEP-2010
 Calibration Time: 10:41
 Level: MED
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	969836	484918	1939672	949754	-2.07
6 Toluene-d8	827822	413911	1655644	804054	-2.87
8 4-Bromofluorobenz	243559	121780	487118	220701	-9.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.83	2.33	3.33	2.82	-0.39
6 Toluene-d8	5.00	4.50	5.50	4.99	-0.22
8 4-Bromofluorobenz	8.27	7.77	8.77	8.26	-0.13

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k23sep10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1009288-01AB
Level: MED Operator: CRL
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k23sep10.b/k10k0826.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
\$ 4 Hexamethyldisiloxa	40.0	40.0	100.11	70-130

Data File: /chem/msdk.i/K23sep10.b/K092308.d

Date: 23-SEP-2010 12:22

Client ID:

Sample Info: J1009288-01A;

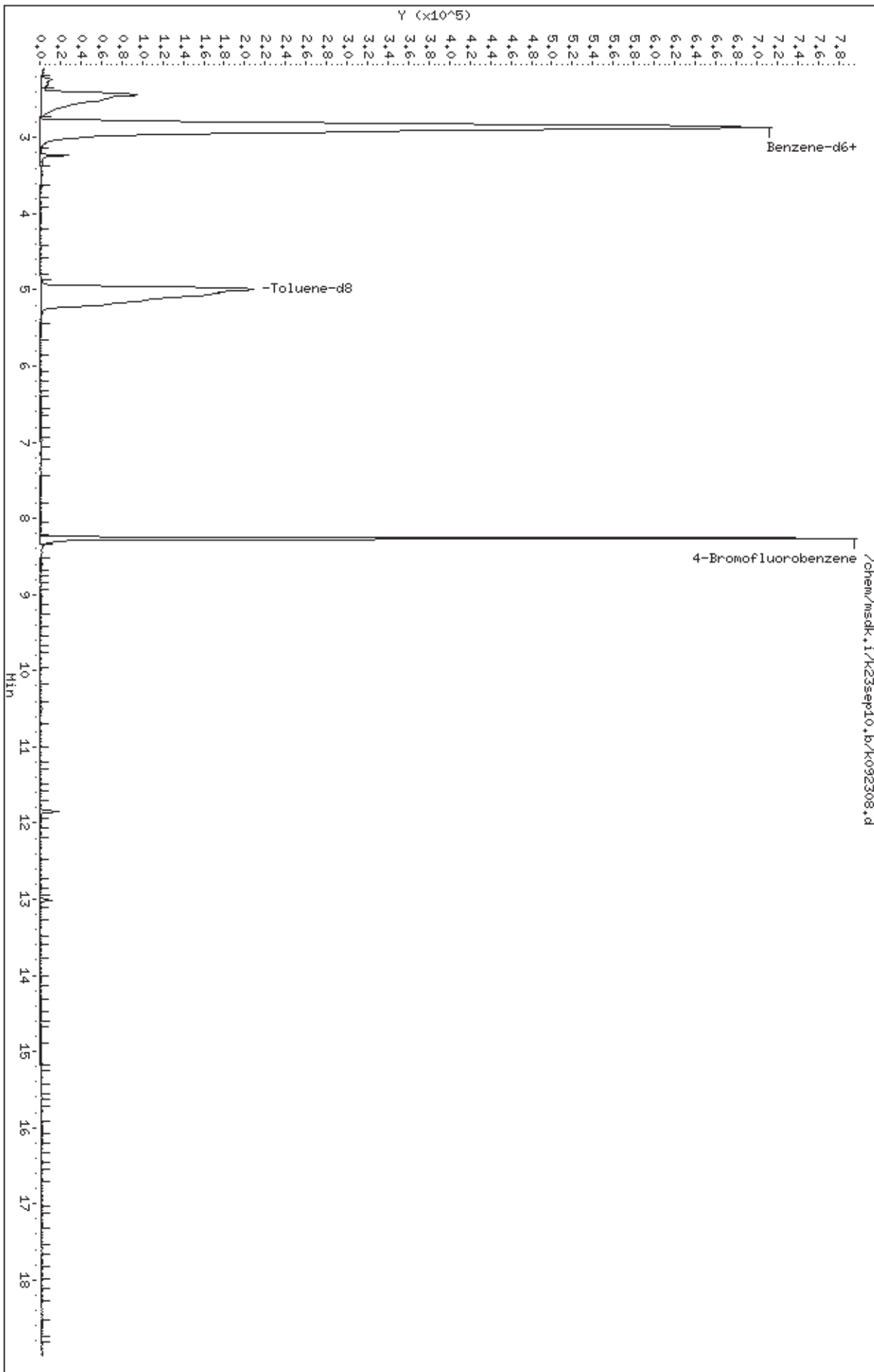
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

Page 1



QC Results and Raw Data



Client Sample ID: Lab Blank

Lab ID#: 1009288-02A

SILOXANES - GC/MS

File Name:	k092307	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	9/23/10 11:58 AM

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	1.0	Not Detected	200	Not Detected
Decamethylcyclopentasiloxane (D5)	1.0	Not Detected	200	Not Detected
Dodecamethylcyclohexasiloxane (D6)	2.0	Not Detected	400	Not Detected
Hexamethyldisiloxane	1.0	Not Detected	200	Not Detected
Octamethyltrisiloxane	1.0	Not Detected	200	Not Detected

Air Sample Volume(L): 5.04

Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	103	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k23sep10.b/k092307.d
 Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
 Inj Date : 23-SEP-2010 11:58
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;MeOH Blank; Lab Blank
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k23sep10.b/k10k0826.m
 Meth Date : 23-Sep-2010 11:06 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: $\text{Amt} * \text{DF} * \text{v} * \text{CpndVariable}$
 $\text{v} \quad 0.00000 \quad \text{final volume}$

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (uG/mL)	FINAL (ug)
* 3 Benzene-d6	84	2.819	2.829	(1.000)	841935	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.870	2.870	(1.018)	1355746	41.2153	41.2
5 hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6 Toluene-d8	98	5.013	5.002	(1.000)	717504	40.0000	
7 octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8 4-Bromofluorobenzene	174	8.263	8.273	(1.000)	220923	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10 deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165 Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 23-SEP-2010
Lab File ID: k092307.d	Calibration Time: 10:41
Lab Smp Id: MeOH Blank	Client Smp ID: Lab Blank
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k23sep10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	969836	484918	1939672	841935	-13.19
6 Toluene-d8	827822	413911	1655644	717504	-13.33
8 4-Bromofluorobenz	243559	121780	487118	220923	-9.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.83	2.33	3.33	2.82	-0.36
6 Toluene-d8	5.00	4.50	5.50	5.01	0.21
8 4-Bromofluorobenz	8.27	7.77	8.77	8.26	-0.12

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k23sep10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Level: MED Operator: CRL
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k23sep10.b/k10k0826.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
\$ 4 Hexamethyldisiloxa	40.0	41.2	103.04	70-130

Data File: /chem/msdk.i/K23sep10.b/K092307.d

Date: 23-SEP-2010 11:58

Client ID: Lab Blank

Sample Info: MeOH Blank; Lab Blank

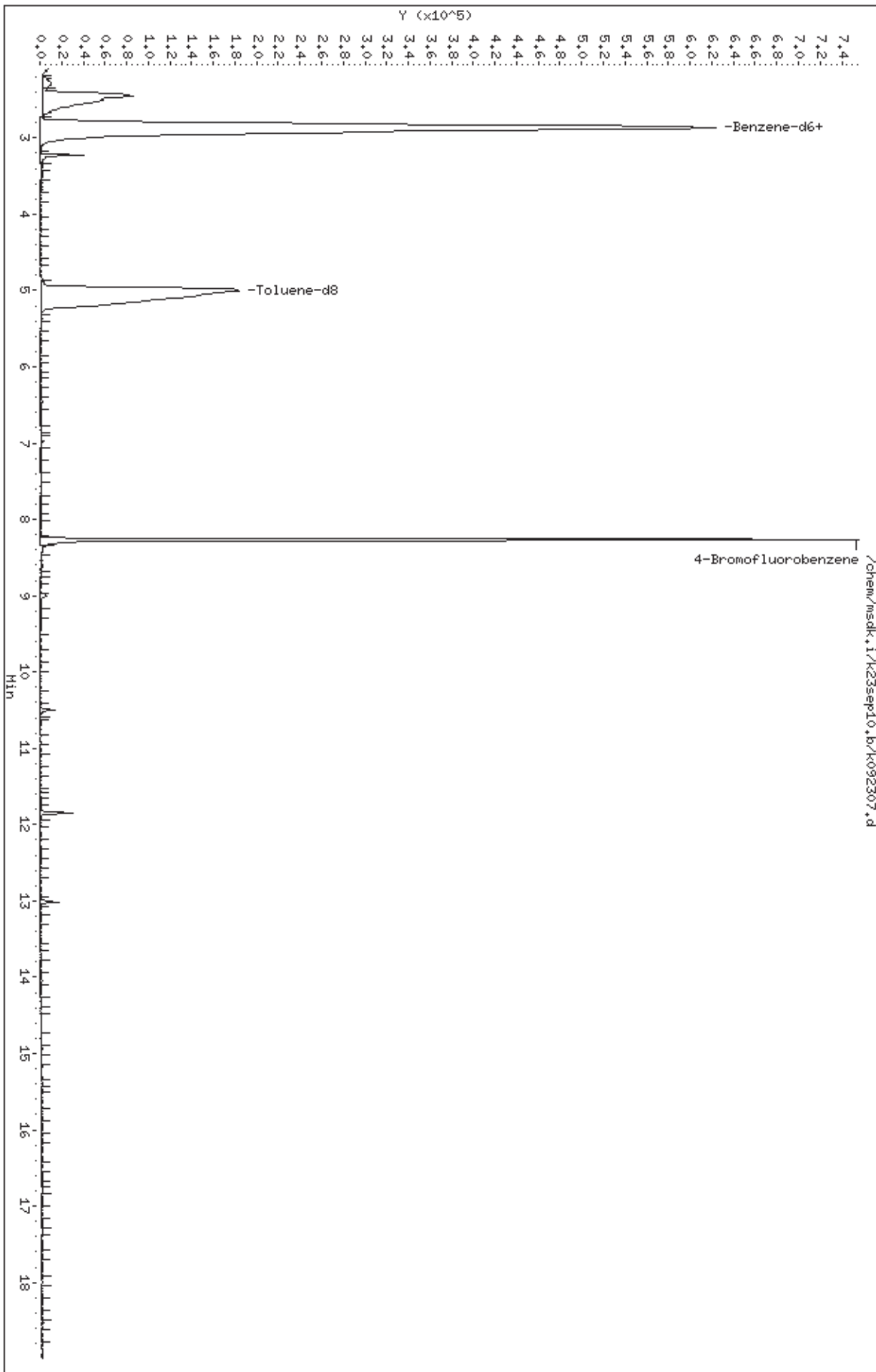
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

Page 1



LEVEL-IV VALIDATABLE

SILOXANES - GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 1009288

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							
	Hexamethyl disiloxane -d18	#	#	#	#	#	#	TOTAL OUT
01	EB-091410 (Front/Back)	100						0
02	Lab Blank	103						0
03	LCS	106						0
04	LCSD	104						0
05								0
06								0
07								0
08								0
09								0
10								0
11								0
12								0
13								0
14								0
15								0
16								0
17								0
18								0
19								0
20								0
21								0
22								0
23								0
24								0

Surrogate Recovery Limits
Hexamethyl disiloxane -d18 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Siloxanes - GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
 Lab File ID: k092304.d
 Instrument ID: msdk.i

SDG No: 1009288
 Date Analyzed: 09/23/2010
 Time Analyzed: 10:41 AM

	Benzene-d6			Toluene-d8			4-Bromofluorobenzene		
	Area	#	RT	Area	#	RT	Area	#	RT
24-HOUR STD	969836		2.83	827822		5	243559		8.27
UPPER LIMIT	1357770		03.16	1158951		05.33	340983		08.60
LOWER LIMIT	581902		02.50	496693		04.67	146135		07.94
CLIENT SAMPLE NO									
01 EB-091410 (Front/Back)	949754		2.82	804054		4.99	220701		8.26
02 Lab Blank	841935		2.82	717504		5.01	220923		8.26
03 LCS	921174		2.82	773646		5	237977		8.28
04 LCSD	875490		2.83	751195		4.99	232049		8.26
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

'Area Upper Limit=+40% of internal standard area'
 'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
 RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: k092306.d & k092305.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/23/10 & 9/23/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
541-02-6	Decamethylcyclopentasiloxane (D5)	105		104		0.96	
540-97-6	Dodecamethylcyclohexasiloxane (D6)	100		102		2.0	
107-46-0	Hexamethyldisiloxane	113		111		1.8	
556-67-2	Octamethylcyclotetrasiloxane (D4)	103		102		0.98	
107-51-7	Octamethyltrisiloxane	129		126		2.4	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-AUG-2010 13:44
 End Cal Date : 26-AUG-2010 16:33
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdk.i/k26aug10.b/k10k0826.m
 Cal Date : 28-Aug-2010 15:45 cleaf
 Curve Type : Average

Calibration File Names:

- Level 1: /chem/msdk.i/k26aug10.b/k082605.d
- Level 2: /chem/msdk.i/k26aug10.b/k082606.d
- Level 3: /chem/msdk.i/k26aug10.b/k082607.d
- Level 4: /chem/msdk.i/k26aug10.b/k082608.d
- Level 5: /chem/msdk.i/k26aug10.b/k082609.d
- Level 6: /chem/msdk.i/k26aug10.b/k082610.d
- Level 7: /chem/msdk.i/k26aug10.b/k082611.d
- Level 8: /chem/msdk.i/k26aug10.b/k082612.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
2 pentamethylidisiloxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 hexamethylidisiloxane(mm)	1.53916 1.42321	1.49610 1.37389	1.47706	1.46211	1.43616	1.41529	1.45287	3.567
7 octamethyltrisiloxane(mdm)	0.89051 0.80083	0.93278 0.77475	0.92412	0.92087	0.89284	0.82077	0.86968	7.099
9 octa-m-cyclotetrasiloxane(d4)	3.18735 2.44636	3.02759 2.33835	2.96230	2.91262	2.76928	2.52127	2.77064	11.005
10 deca-m-cyclopentasiloxane(d5)	1.05452 0.88017	0.97306 0.85503	1.00196	1.00518	0.96821	0.91446	0.95657	7.106
165 Dodeca-mcyclohexasiloxane(d6)	0.94324 0.70201	0.85722 0.66347	0.84470	0.85774	0.79558	0.73331	0.79966	11.753
\$ 4 Hexamethylidisiloxane-d18	1.54491 1.58161	1.58622 1.54455	1.54828	1.57670	1.55729	1.56255	1.56276	1.079

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-AUG-2010 13:44
 End Cal Date : 26-AUG-2010 16:33
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdk.i/k26aug10.b/k10k0826.m
 Cal Date : 28-Aug-2010 15:45 cleaf
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	120.000 Level 7	160.000 Level 8						
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 166 Divinyltetramethyldisiloxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++	+++++					+++++	+++++

Calibration History

Method : /chem/msdk.i/k26aug10.b/k10k0826.m
Start Cal Date: 26-AUG-2010 13:44
End Cal Date : 26-AUG-2010 16:33

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
26-AUG-2010 13:44	silos	/chem/msdk.i/k26aug10.b/k082605.d
Cal Level: 2 , Cal Amount: 5.00000		
26-AUG-2010 14:08	silos	/chem/msdk.i/k26aug10.b/k082606.d
Cal Level: 3 , Cal Amount: 10.00000		
26-AUG-2010 14:32	silos	/chem/msdk.i/k26aug10.b/k082607.d
Cal Level: 4 , Cal Amount: 25.00000		
26-AUG-2010 14:56	silos	/chem/msdk.i/k26aug10.b/k082608.d
Cal Level: 5 , Cal Amount: 50.00000		
26-AUG-2010 15:20	silos	/chem/msdk.i/k26aug10.b/k082609.d
Cal Level: 6 , Cal Amount: 100.00000		
26-AUG-2010 15:45	silos	/chem/msdk.i/k26aug10.b/k082610.d
Cal Level: 7 , Cal Amount: 120.00000		
26-AUG-2010 16:09	silos	/chem/msdk.i/k26aug10.b/k082611.d
Cal Level: 8 , Cal Amount: 160.00000		
26-AUG-2010 16:33	silos	/chem/msdk.i/k26aug10.b/k082612.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-AUG-2010 13:44
 End Cal Date : 26-AUG-2010 16:33
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdk.i/k26aug10.b/k10k0826.m
 Cal Date : 28-Aug-2010 15:45 cleaf
 Curve Type : Average

Cathy Jeff et al 10

Calibration File Names:

- Level 1: /chem/msdk.i/k26aug10.b/k082605.d
- Level 2: /chem/msdk.i/k26aug10.b/k082606.d
- Level 3: /chem/msdk.i/k26aug10.b/k082607.d
- Level 4: /chem/msdk.i/k26aug10.b/k082608.d
- Level 5: /chem/msdk.i/k26aug10.b/k082609.d
- Level 6: /chem/msdk.i/k26aug10.b/k082610.d
- Level 7: /chem/msdk.i/k26aug10.b/k082611.d
- Level 8: /chem/msdk.i/k26aug10.b/k082612.d

2nd Source: k082613.d

Based on a 1.0 uL injection

9/1/10

Compound	1.000	5.000	10.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
<i>units: ug/ml</i>	120.000	160.000						
	Level 7	Level 8						
2 pentamethylidisiloxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 hexamethylidisiloxane (mm)	1.53916 1.42321	1.49610 1.37389	1.47706	1.46211	1.43616	1.41529	1.45287	3.567
7 octamethyltrisiloxane (mdm)	0.89051 0.80083	0.93278 0.77475	0.92412	0.92087	0.89284	0.82077	0.86968	7.099
9 octa-m-cyclotetrasiloxane (d4)	✓ 3.18735 ✓ 2.44636	✓ 3.02759 ✓ 2.33835	✓ 2.96230	✓ 2.91262	✓ 2.76928	✓ 2.52127	✓ 2.77064	✓ 11.005
10 deca-m-cyclopentasiloxane (d5)	✓ 1.05452 ✓ 0.88017	✓ 0.97306 ✓ 0.85503	✓ 1.00196	✓ 1.00518	✓ 0.96821	✓ 0.91446	✓ 0.95657	✓ 7.106
165 Dodeca-m-cyclohexasiloxane (d6)	0.94324 0.70201	0.85722 0.66347	0.84470	0.85774	0.79558	0.73331	0.79966	11.753
\$ 4 Hexamethylidisiloxane-d18	1.54491 1.58161	1.58622 1.54455	1.54828	1.57670	1.55729	1.56255	1.56276	1.079

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-AUG-2010 13:44
 End Cal Date : 26-AUG-2010 16:33
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdk.i/k26aug10.b/k10k0826.m
 Cal Date : 28-Aug-2010 15:45 cleaf
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	120.000 Level 7	160.000 Level 8						
-----	-----	-----	-----	-----	-----	-----	-----	-----
\$ 166 Divinyltetramethyldisiloxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++	+++++					+++++	+++++

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.86
68	Less than 2.00% of mass 69	0.00 (0.00) ¹
69	Less than 99.90% of mass 198	47.43
70	Less than 2.00% of mass 69	0.32 (0.67) ¹
127	40.00 - 60.00% of mass 198	50.63
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	20.73
365	Greater than 1.00% of mass 198	2.05
441	Present, but less than mass 443	8.27
442	40.00 - 100.00% of mass 198	57.03
443	17.00 - 23.00% of mass 442	11.30 (19.81) ²

DFTPP File ID: K082603
DFTPP Injection Date: 8/26/10
DFTPP Injection Time: 1245

IS 1869-79-1000	Area Counts
1,4-Dichlorobenzene-d ₄ :	
Naphthalene-d ₈ :	
Acenaphthene-d ₁₀ :	
Phenanthrene-d ₁₀ :	
Chrysene-d ₁₂ :	
Perylene-d ₁₂ :	<i>Quetzels</i>
Benzene-d ₆ :	1266297
Toluene-d ₈ :	1096695
4-Bromofluorobenzene:	311899

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442
Injection Volume: 1.0 µL

This Tune Check Applies To The Following Samples, Blanks And Standards:

U s e	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓ K082603	1869-70-50 tune	2	1.00	Cre	8/26/10	1245	Cre/Mon	
2	✓	4 MeOH Blank	3				1308		
3	✓	5 1869-39-1	4				1394		level 1
4	✓	6 -5	5				1408		2
5	✓	7 -10	6				1432		3
6	✓	8 -25	7				1456		4
7	✓	9 1869-67-50 CCV	8				1520		5
8	✓	10 1869-39-100	9				1545		6
9	✓	11 -120	10				1609		7
10	✓	12 -160	11				1633		8
11	✓	13 1869-68-50 LCS	12				1657		
12									
13									
14									
15									
16									
17									
18									
19									
20									Cre 8/20/10

Calculation Check: File ID: K082609 Compound: D₄ Initials: Cre

nG On Column = $\frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{average}}}$ = $\frac{(1079669) \times (40.0)}{(311899) \times (2.80627)}$

49.3
49.3

µG/Sample = $\frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{X D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}}$ = $\frac{(49.3) \times (1000) \times (1.00)}{(1000)}$

Reported Result = 49.3

Cosy Leaf
Signed

8/20/10
Date

Date : 26-AUG-2010 12:45

Client ID: DFTPP 50ng

Instrument: msdk.i

Sample Info: ;1869-70-50;tune

Operator: ss

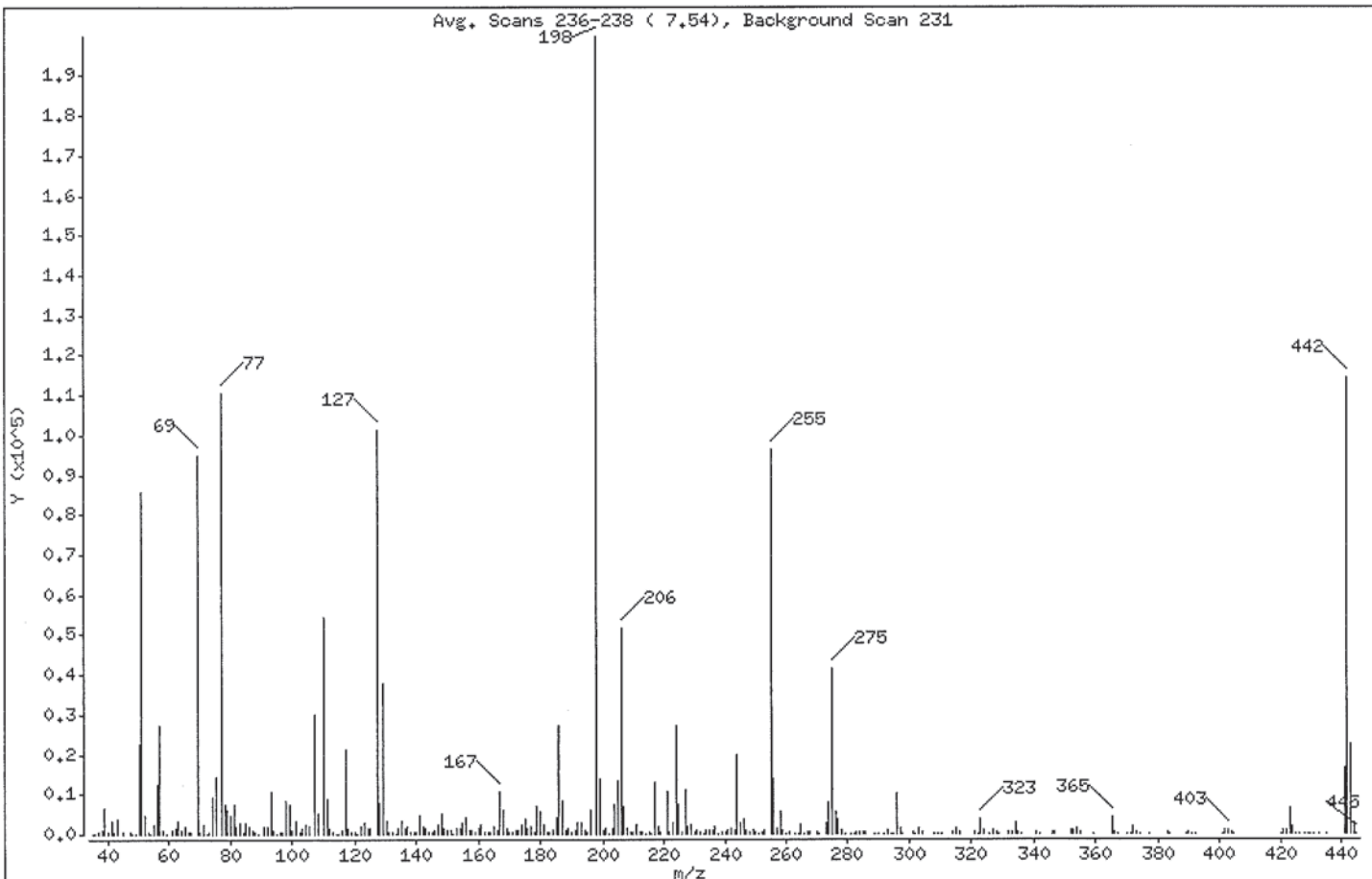
Ar 12/10

Column phase:

Column diameter: 0,25

1 dftpp

Avg. Scans 236-238 (7.54), Background Scan 231



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100,00
51	30,00 - 60,00% of mass 198	42,86
68	Less than 2,00% of mass 69	0,00 (0,00)
69	Less than 99,90% of mass 198	47,43
70	Less than 2,00% of mass 69	0,32 (0,67)
127	40,00 - 60,00% of mass 198	50,63
197	Less than 1,00% of mass 198	0,00
199	5,00 - 9,00% of mass 198	6,93
275	10,00 - 30,00% of mass 198	20,73
365	Greater than 1,00% of mass 198	2,05
441	Present, but less than mass 443	8,27
442	40,00 - 100,00% of mass 198	57,03
443	17,00 - 23,00% of mass 442	11,30 (19,81)

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082613.d
 Lab Smp Id: 1869-68-50 Client Smp ID: LCS
 Inj Date : 26-AUG-2010 16:57
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-68-50;LCS
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 11:05 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
 Als bottle: 12 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: $\text{Amt} * \text{DF} * \text{v} * \text{CpndVariable}$
 $\text{v} \quad 0.00000 \quad \text{final volume}$

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (uG/mL)	FINAL (ug)
* 3 Benzene-d6	84	2.766	2.767	(1.000)	1205392	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.818	2.819	(1.019)	1851806	39.3211	39.3
5 hexamethyldisiloxane(mm)	147	2.942	2.943	(1.064)	2309567	52.5572	52.6
* 6 Toluene-d8	98	4.950	4.951	(1.000)	1056831	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.486	7.487	(1.512)	1333875	57.5883	57.6
* 8 4-Bromofluorobenzene	174	8.252	8.253	(1.000)	299869	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.997	8.998	(1.090)	1061978	50.4795	50.5
10 deca-m-cyclopentasiloxane(d5)	267	10.498	10.499	(1.272)	369490	51.2024	51.2
165 Dodeca-mcyclohexasiloxane(d6)	341	11.843	11.844	(1.435)	303250	49.9927	50.0

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 26-AUG-2010
Lab File ID: k082613.d	Calibration Time: 15:20
Lab Smp Id: 1869-68-50	Client Smp ID: LCS
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1205392	-4.81
6 Toluene-d8	1097277	548638	2194554	1056831	-3.69
8 4-Bromofluorobenz	311899	155950	623798	299869	-3.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.77	-0.04
6 Toluene-d8	4.95	4.45	5.45	4.95	-0.02
8 4-Bromofluorobenz	8.25	7.75	8.75	8.25	-0.01

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26aug10
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1869-68-50 Client Smp ID: LCS
 Level: MED Operator: CRL
 Data Type: MS DATA SampleType: LCS
 SpikeList File: LCS50.spk Quant Type: ISTD
 Sublist File: silo.sub
 Method File: /chem/msdk.i/k26aug10.b/k10k0826.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	52.6	105.11	70-130
7 octamethyltrisilox	50.0	57.6	115.18	70-130
9 octa-m-cyclotetras	50.0	50.5	100.96	70-130
10 deca-m-cyclopentas	50.0	51.2	102.40	70-130
165 Dodeca-mcyclohexas	50.0	50.0	99.99	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
\$ 4 Hexamethyldisiloxa	40.0	39.3	98.30	70-130

Data File: /chem/msdk.i/K26aug10.b/K082613.d

Date: 26-AUG-2010 16:57

Client ID: LCS

Sample Info: #1869-68-50;LCS

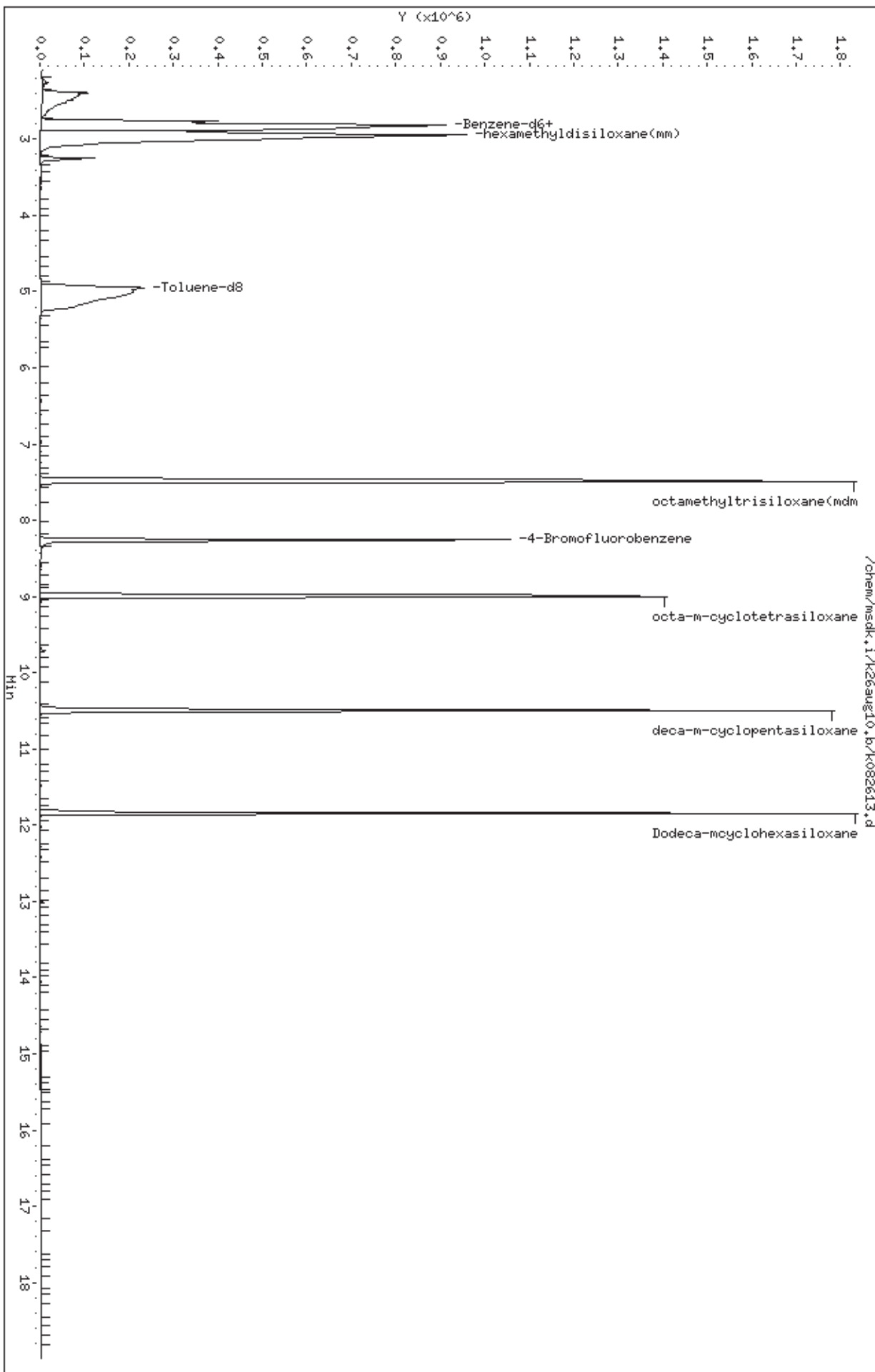
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

Page 1



Date : 26-AUG-2010 16:57

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

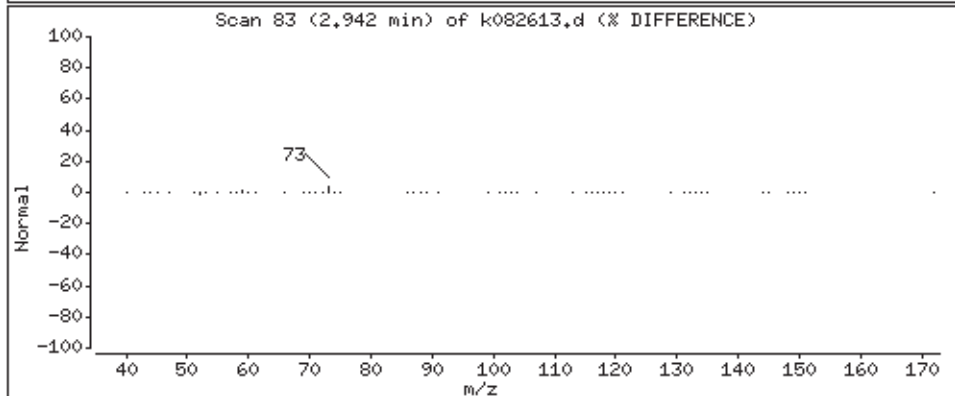
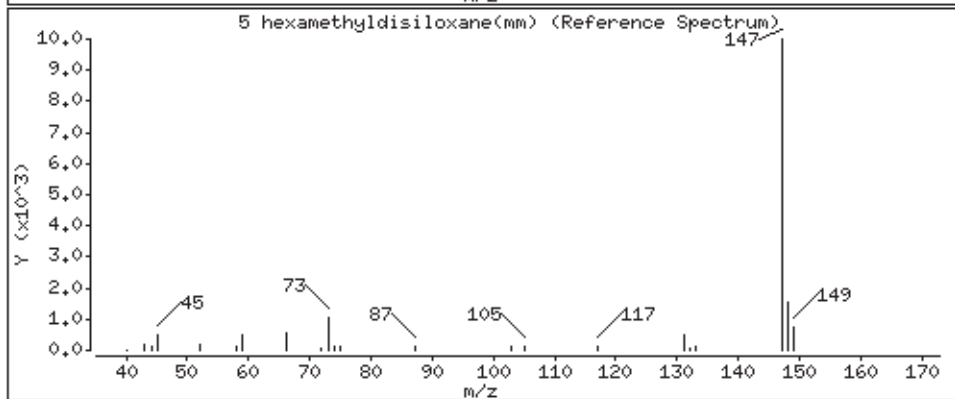
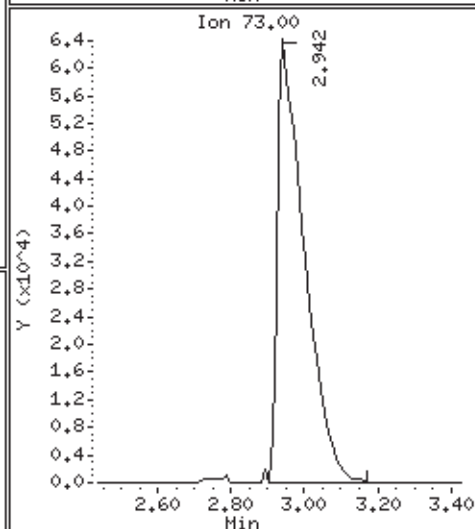
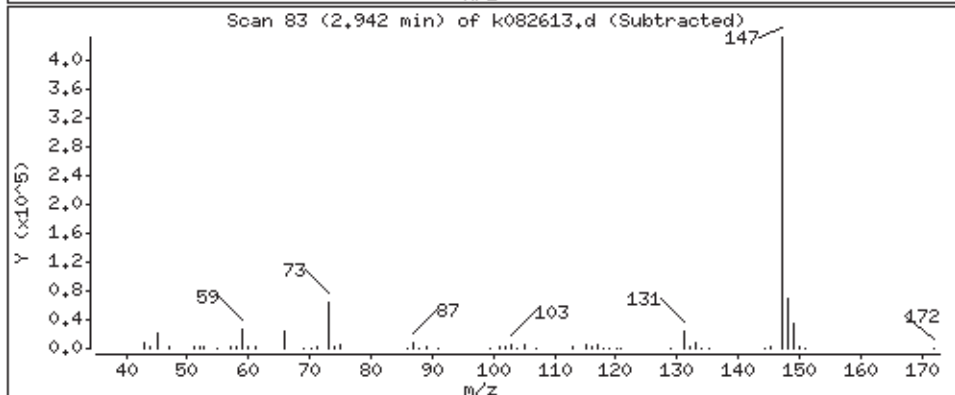
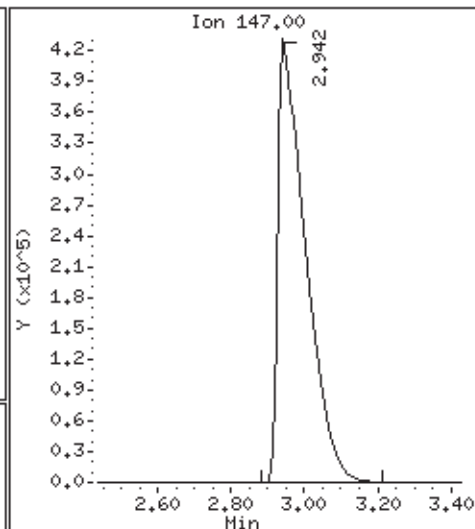
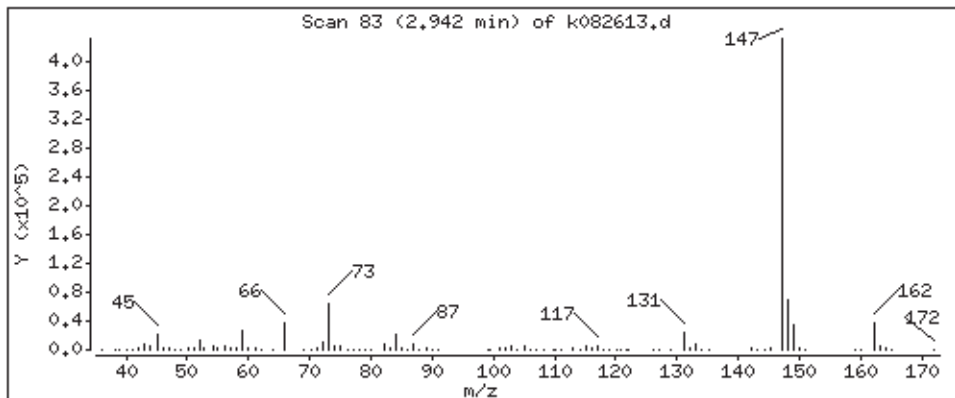
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

5 hexamethyldisiloxane(mm)

Concentration: 52,6 ug



Date : 26-AUG-2010 16:57

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

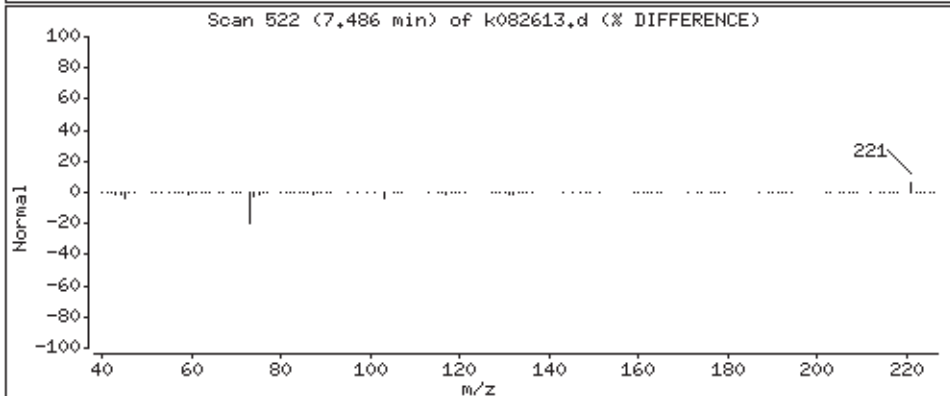
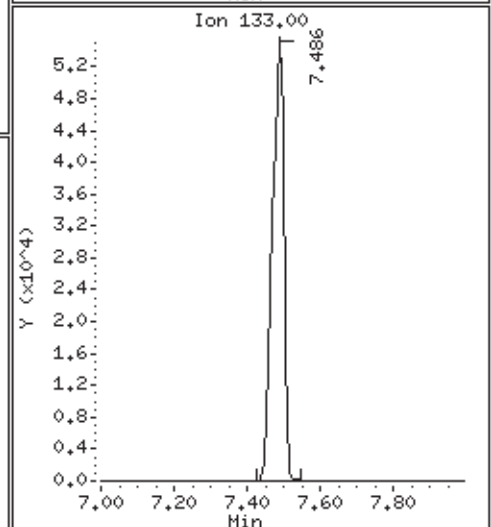
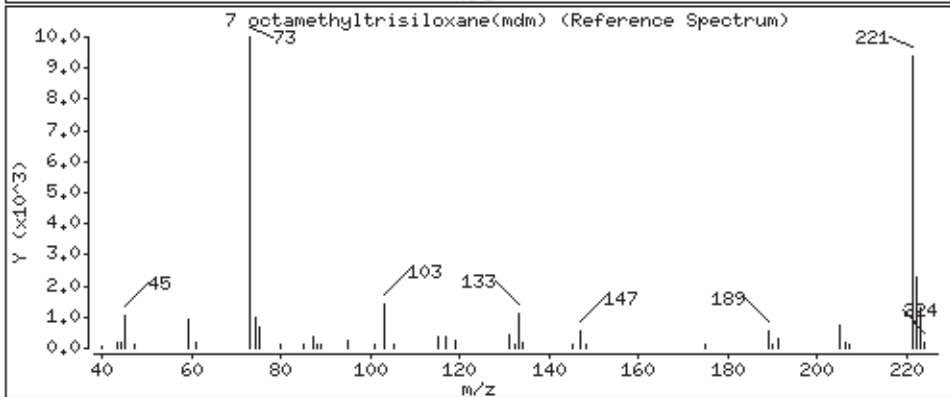
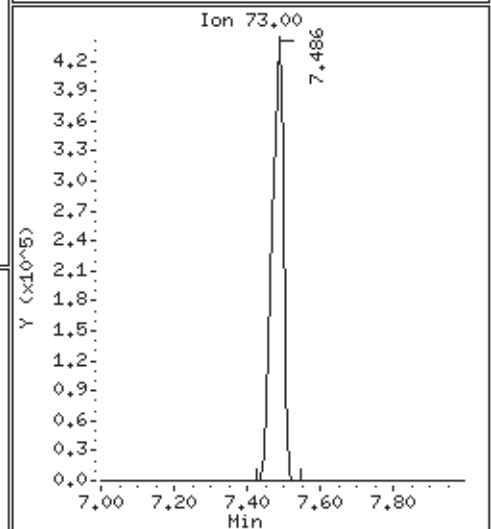
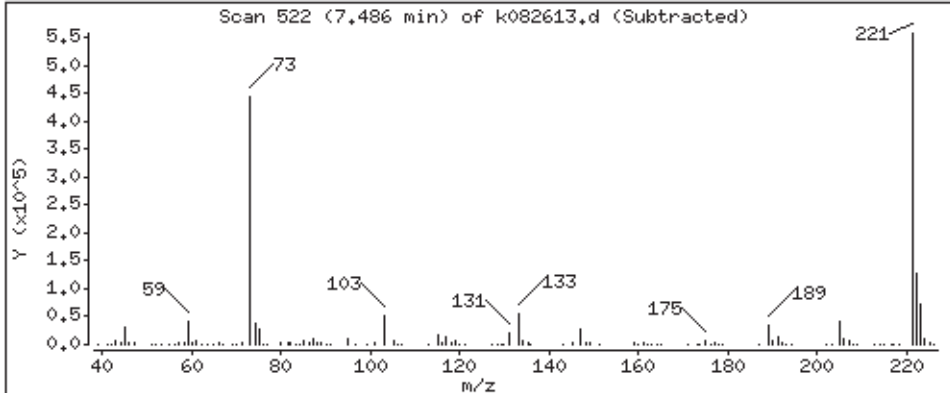
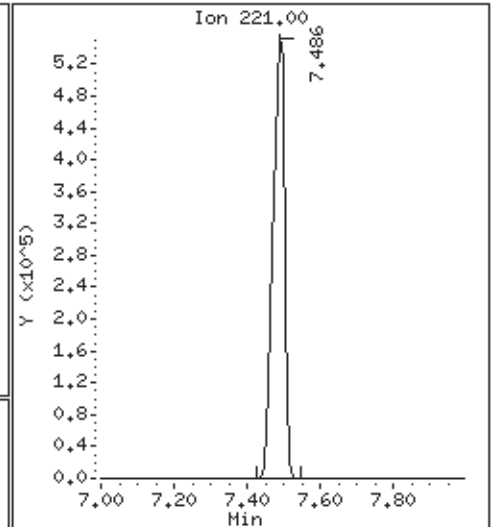
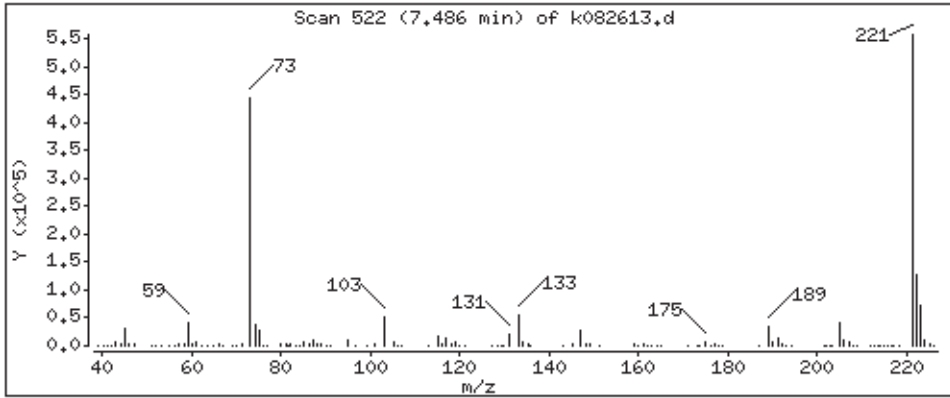
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

7 octamethyltrisiloxane(mdm)

Concentration: 57,6 ug



Date : 26-AUG-2010 16:57

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

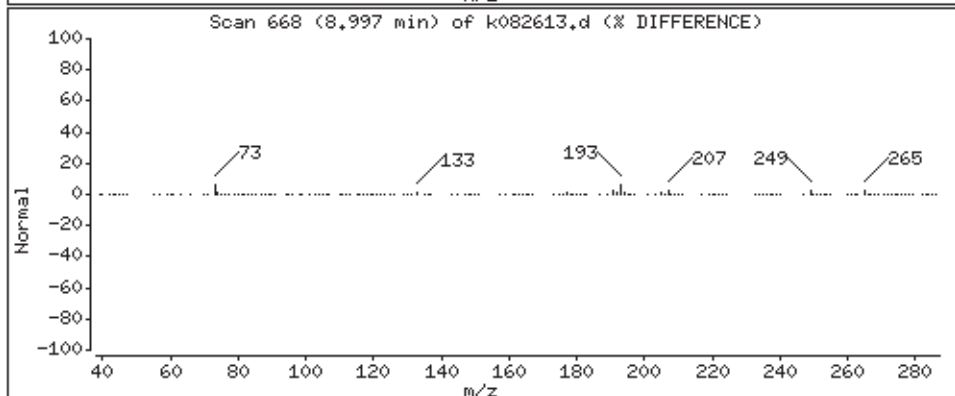
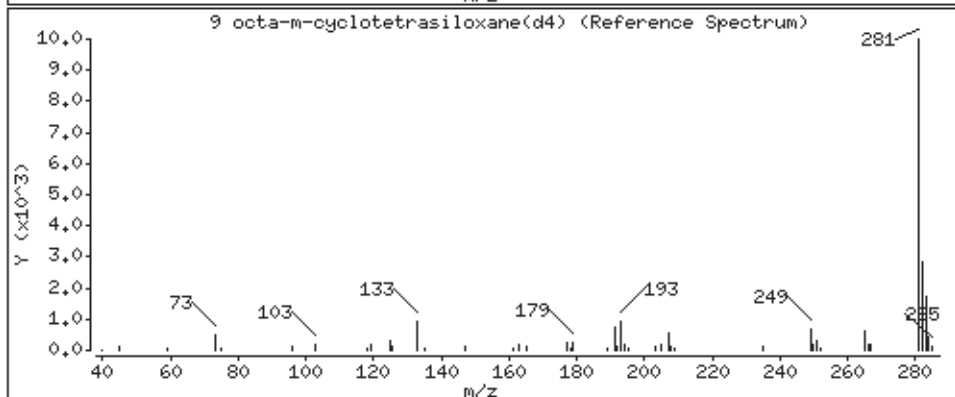
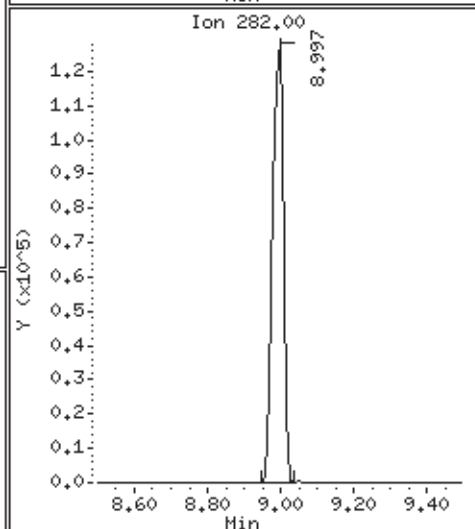
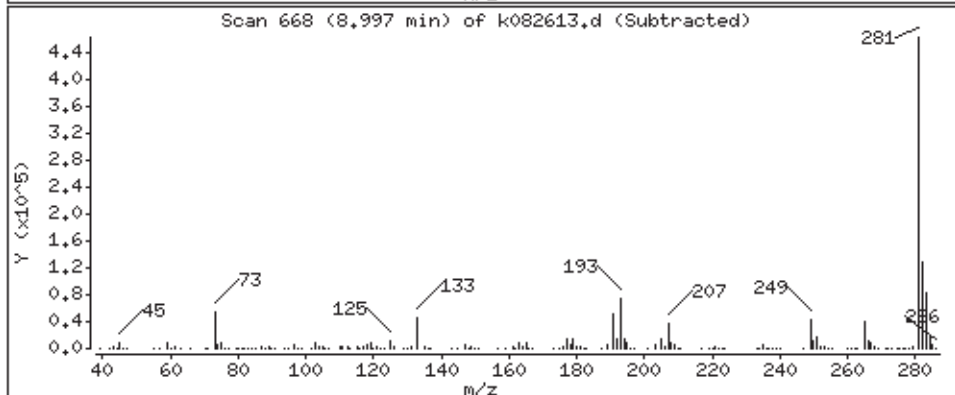
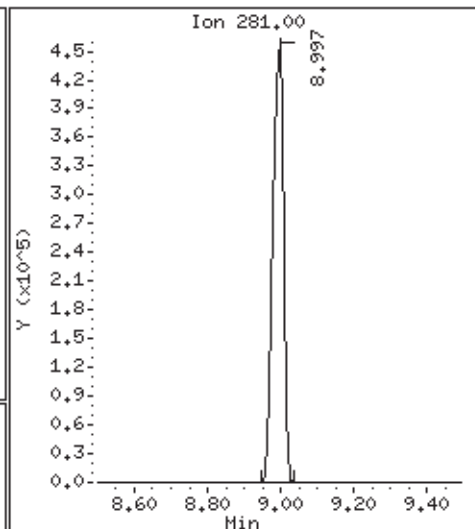
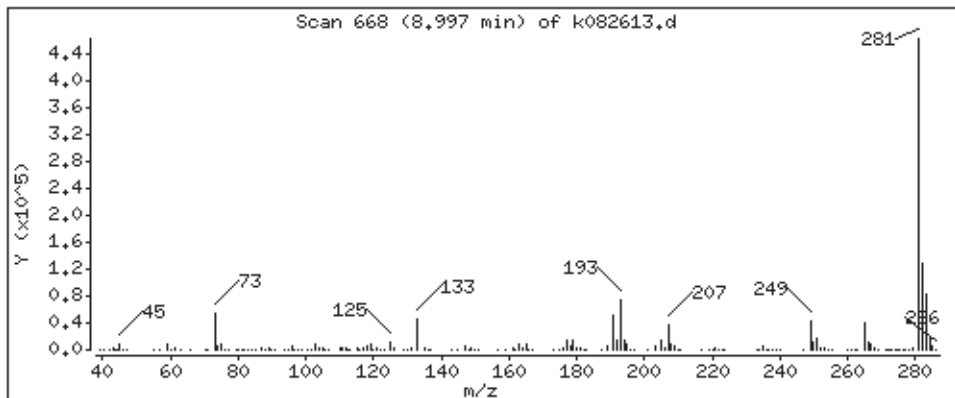
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

9 octa-m-cyclotetrasiloxane(d4)

Concentration: 50,5 ug



Date : 26-AUG-2010 16:57

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

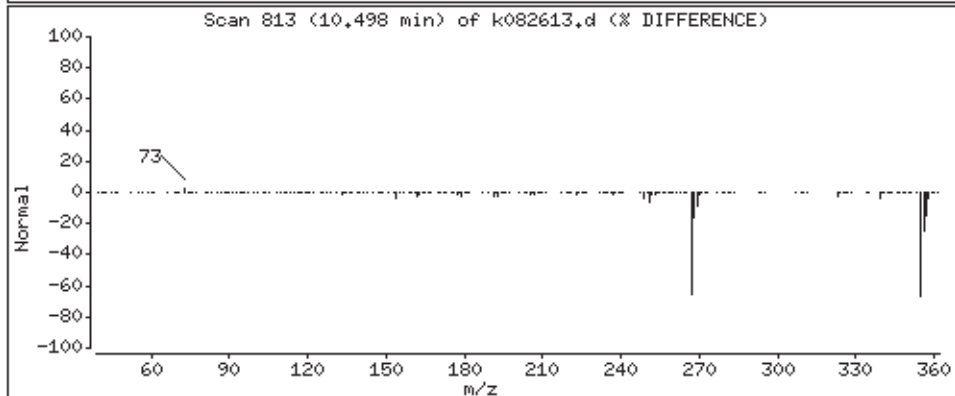
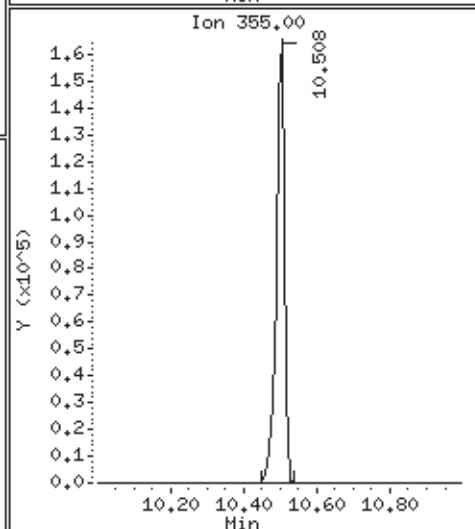
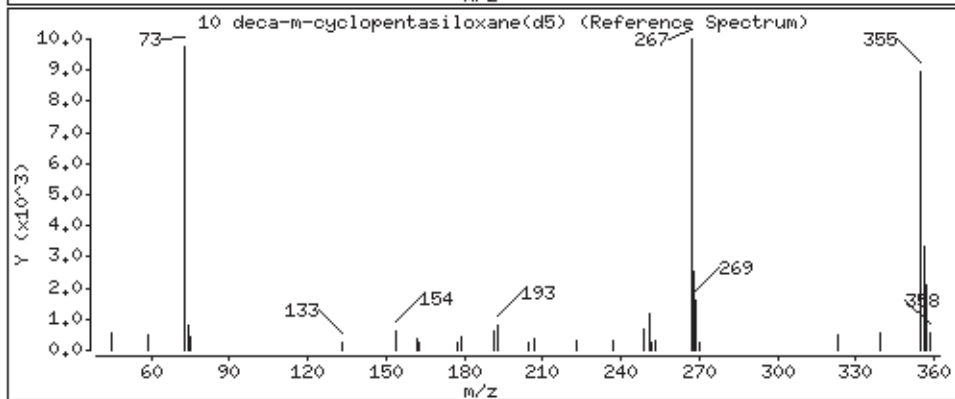
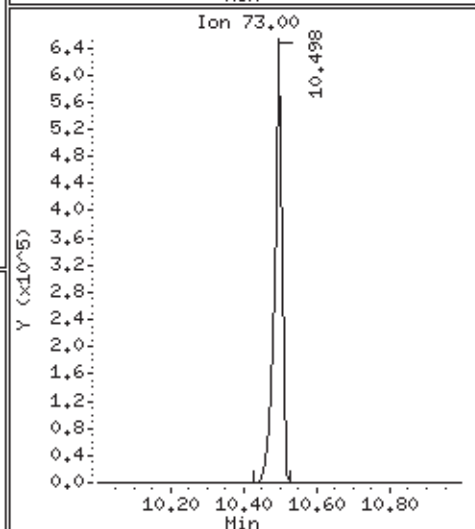
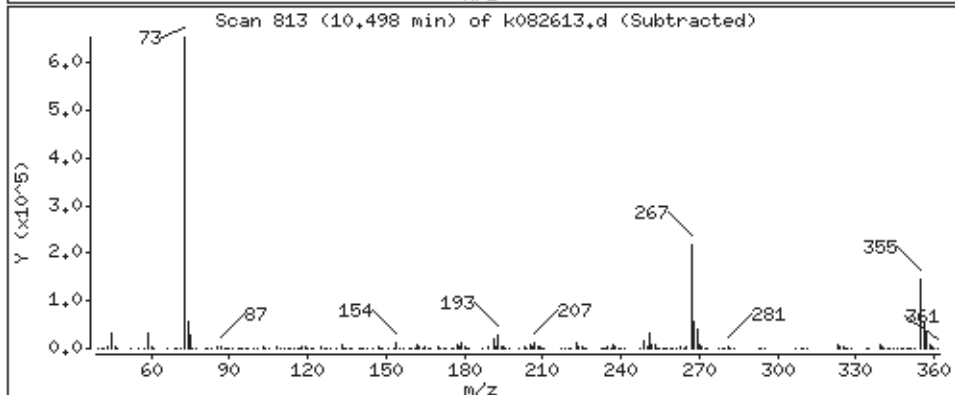
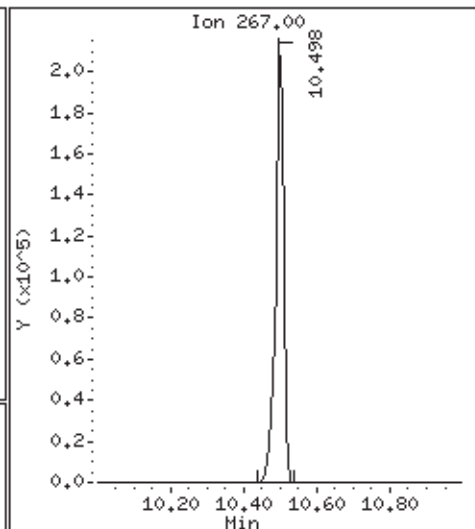
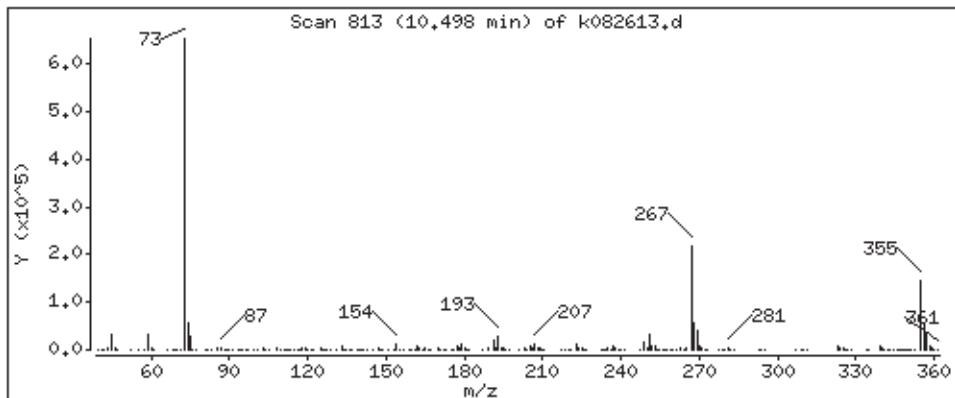
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

10 deca-m-cyclopentasiloxane(d5)

Concentration: 51,2 ug



Date : 26-AUG-2010 16:57

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

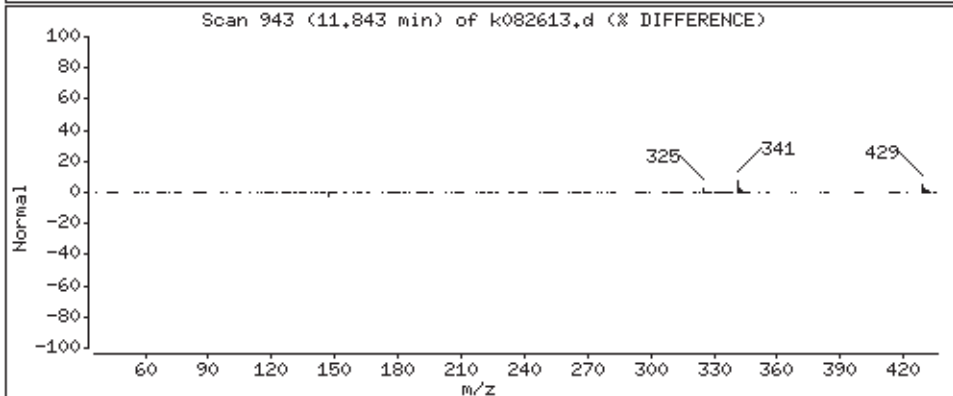
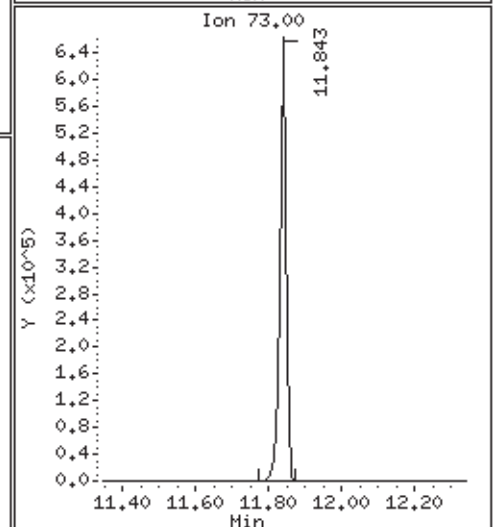
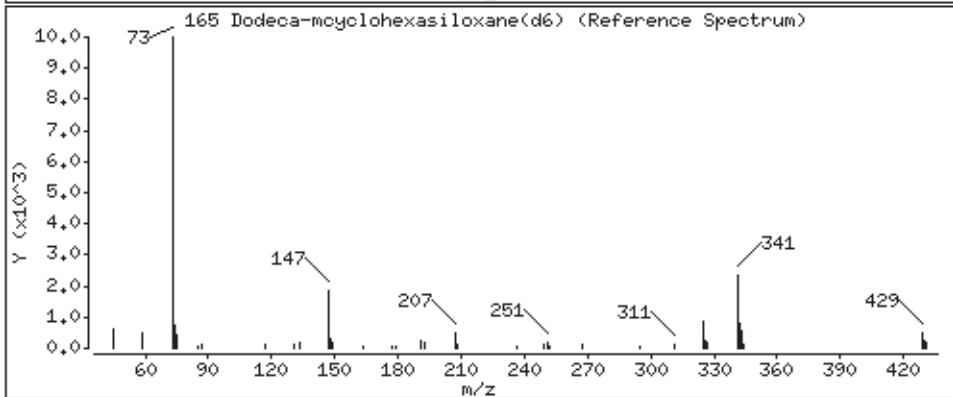
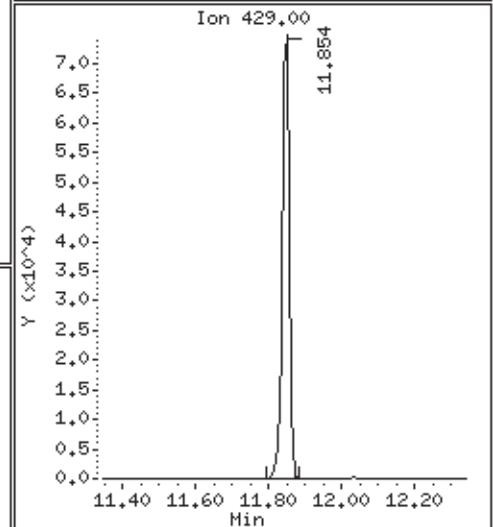
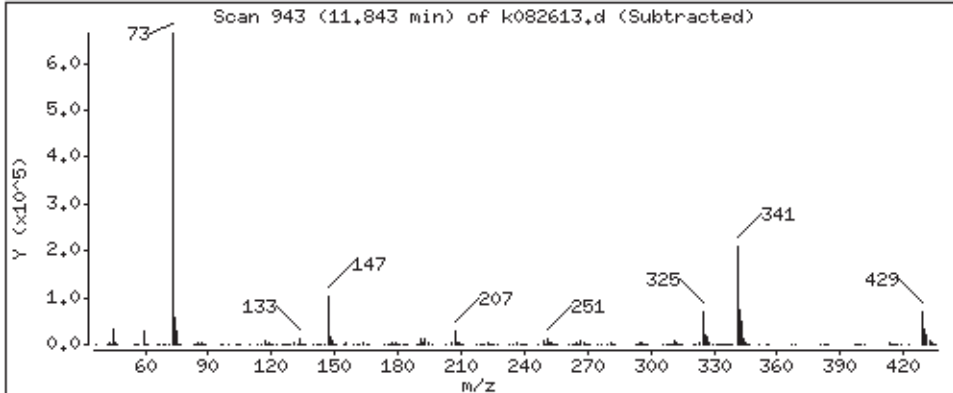
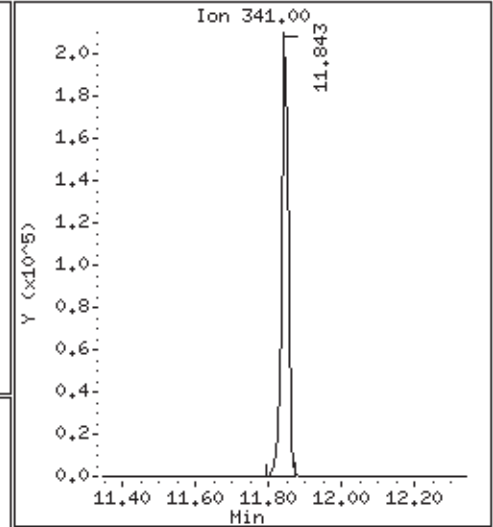
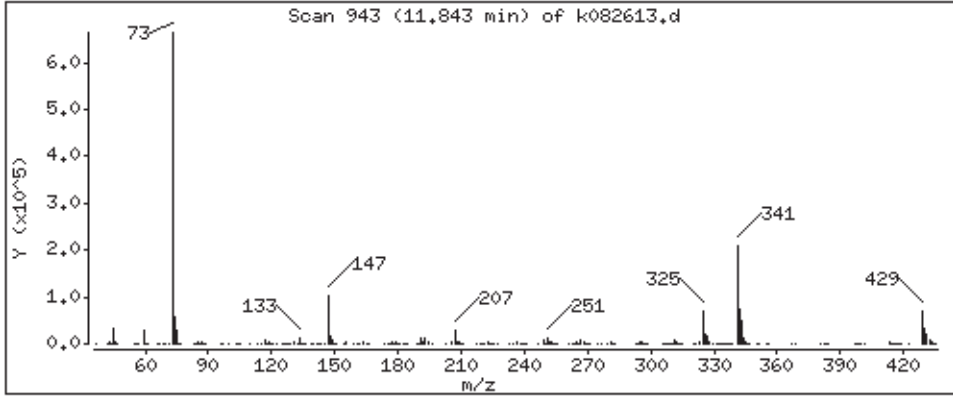
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

165 Dodeca-mcyclohexasiloxane(d6)

Concentration: 50,0 ug



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082605.d
 Lab Smp Id: 1869-39-1 Client Smp ID: LEVEL 1
 Inj Date : 26-AUG-2010 13:44
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-39-1;LEVEL 1
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 11:04 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 13:44 Cal File: k082605.d
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84		2.759	2.759	(1.000)	1543255	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162		2.810	2.810	(1.019)	2384186	40.0000	39.8
5 hexamethyldisiloxane(mm)	147		2.935	2.935	(1.064)	59383	1.00000	1.0
* 6 Toluene-d8	98		4.943	4.943	(1.000)	1345210	40.0000	
7 octamethyltrisiloxane(mdm)	221		7.499	7.499	(1.517)	29948	1.00000	1.00
* 8 4-Bromofluorobenzene	174		8.265	8.265	(1.000)	354777	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281		8.989	8.989	(1.088)	28270	1.00000	1.1
10 deca-m-cyclopentasiloxane(d5)	267		10.501	10.501	(1.270)	9353	1.00000	1.0
165 Dodeca-mcyclohexasiloxane(d6)	341		11.846	11.846	(1.433)	8366	1.00000	1.1(a)

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 26-AUG-2010
Lab File ID: k082605.d	Calibration Time: 15:20
Lab Smp Id: 1869-39-1	Client Smp ID: LEVEL 1
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1543255	21.87
6 Toluene-d8	1096695	548348	2193390	1345210	22.66
8 4-Bromofluorobenz	311899	155950	623798	354777	13.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.76	-0.31
6 Toluene-d8	4.95	4.45	5.45	4.94	-0.17
8 4-Bromofluorobenz	8.25	7.75	8.75	8.26	0.15

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

Data File: /chem/msdk.i/K26aug10.b/K082605.d

Date: 26-AUG-2010 13:44

Client ID: LEVEL 1

Sample Info: #1869-39-1;LEVEL 1

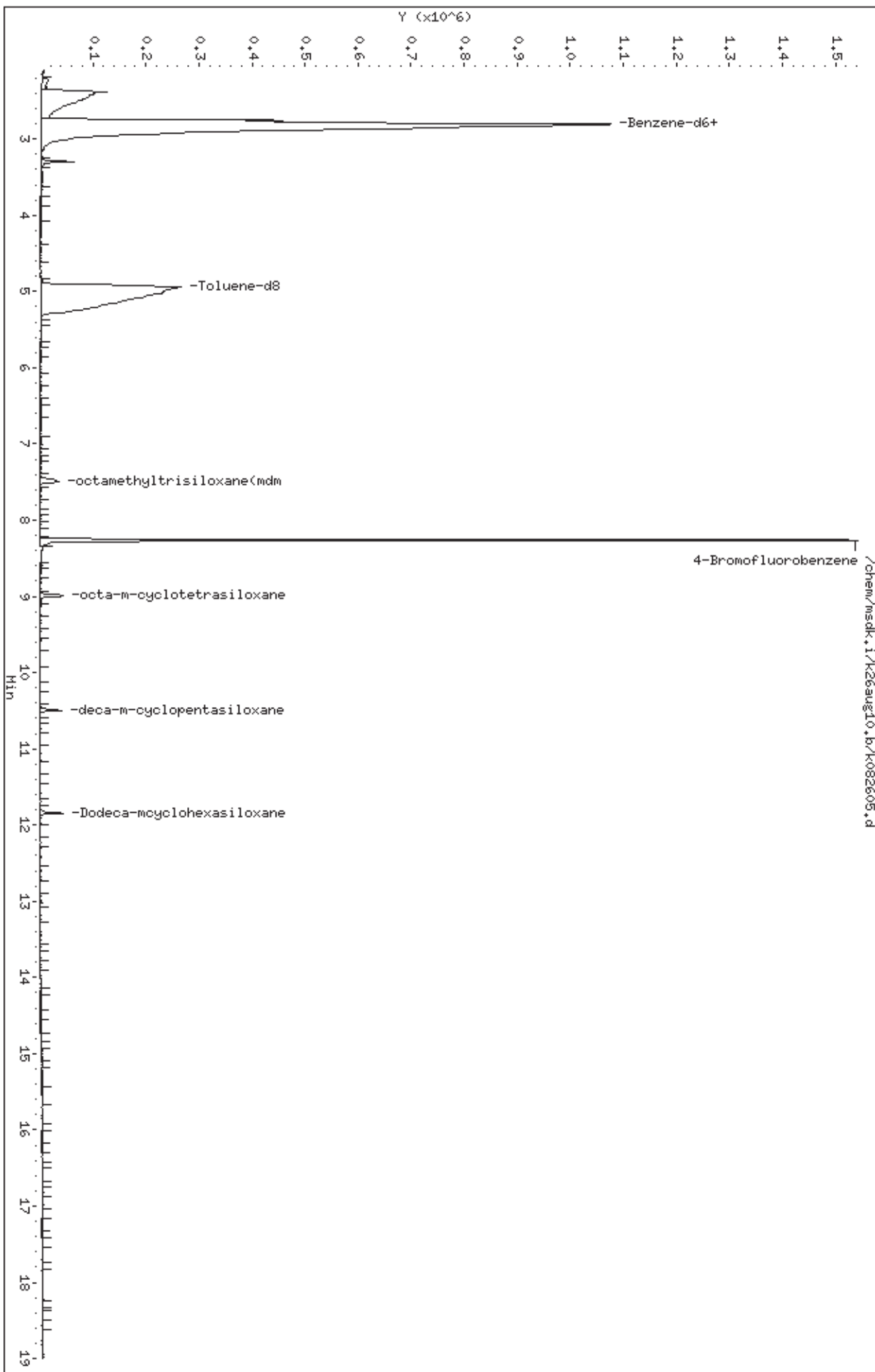
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

Page 1



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082606.d
 Lab Smp Id: 1869-39-5 Client Smp ID: LEVEL 2
 Inj Date : 26-AUG-2010 14:08
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-39-5;LEVEL 2
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 11:04 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 14:08 Cal File: k082606.d
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84	2.766	2.766	(1.000)	1260143	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.818	2.818	(1.019)	1998867	40.0000	40.6
5 hexamethyldisiloxane(mm)	147	2.953	2.953	(1.067)	235663	5.00000	5.0
* 6 Toluene-d8	98	4.950	4.950	(1.000)	1108680	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.496	7.496	(1.514)	129269	5.00000	5.2
* 8 4-Bromofluorobenzene	174	8.262	8.262	(1.000)	306982	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.997	8.997	(1.089)	116177	5.00000	5.0
10 deca-m-cyclopentasiloxane(d5)	267	10.498	10.498	(1.271)	37339	5.00000	4.9
165 Dodeca-mcyclohexasiloxane(d6)	341	11.843	11.843	(1.433)	32894	5.00000	5.0

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 26-AUG-2010
Lab File ID: k082606.d	Calibration Time: 15:20
Lab Smp Id: 1869-39-5	Client Smp ID: LEVEL 2
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1260143	-0.49
6 Toluene-d8	1096695	548348	2193390	1108680	1.09
8 4-Bromofluorobenz	311899	155950	623798	306982	-1.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.77	-0.03
6 Toluene-d8	4.95	4.45	5.45	4.95	-0.02
8 4-Bromofluorobenz	8.25	7.75	8.75	8.26	0.11

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

Data File: /chem/msdk.i/K26aug10.b/K082606.d

Date: 26-AUG-2010 14:08

Client ID: LEVEL 2

Sample Info: J1869-39-5;LEVEL 2

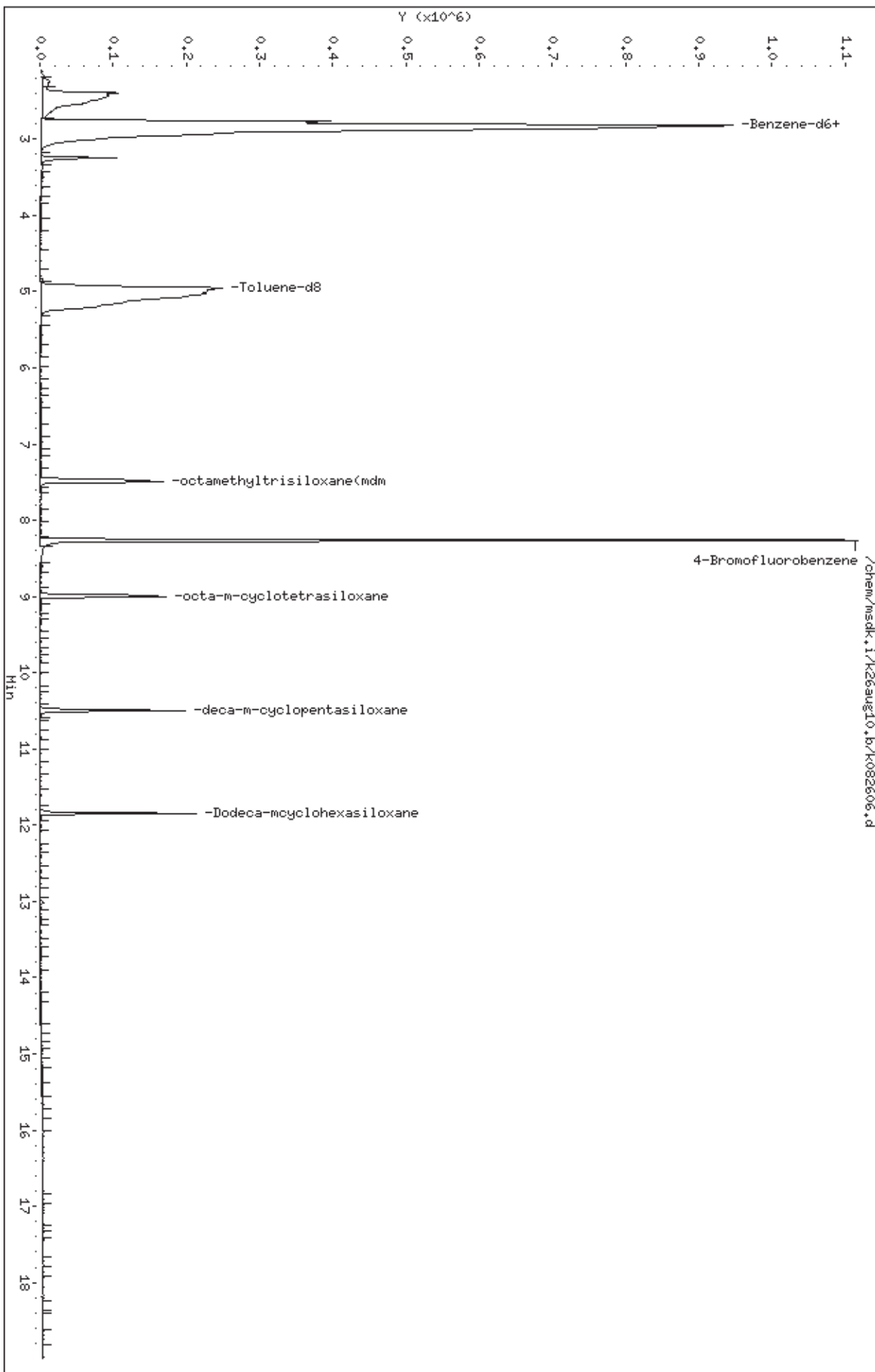
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

Page 1



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082607.d
Lab Smp Id: 1869-39-10 Client Smp ID: LEVEL 3
Inj Date : 26-AUG-2010 14:32
Operator : CRL Inst ID: msdk.i
Smp Info : ;1869-39-10;LEVEL 3
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k26aug10.b/k10k0826.m
Meth Date : 28-Aug-2010 11:04 cleaf Quant Type: ISTD
Cal Date : 26-AUG-2010 14:32 Cal File: k082607.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
*****	====	==	=====	=====	=====	=====	=====
* 3 Benzene-d6	84	2.777	2.777	(1.000)	1170191	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.828	2.828	(1.019)	1811784	40.0000	39.7
5 hexamethyldisiloxane(mm)	147	2.953	2.953	(1.063)	432112	10.0000	9.9
* 6 Toluene-d8	98	4.961	4.961	(1.000)	1035655	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.496	7.496	(1.511)	239268	10.0000	10.2
* 8 4-Bromofluorobenzene	174	8.273	8.273	(1.000)	300376	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	9.007	9.007	(1.089)	222451	10.0000	9.9
10 deca-m-cyclopentasiloxane(d5)	267	10.498	10.498	(1.269)	75241	10.0000	10.0
165 Dodeca-mcyclohexasiloxane(d6)	341	11.843	11.843	(1.432)	63432	10.0000	9.8

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 26-AUG-2010
Lab File ID: k082607.d	Calibration Time: 15:20
Lab Smp Id: 1869-39-10	Client Smp ID: LEVEL 3
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1170191	-7.59
6 Toluene-d8	1096695	548348	2193390	1035655	-5.57
8 4-Bromofluorobenz	311899	155950	623798	300376	-3.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.78	0.34
6 Toluene-d8	4.95	4.45	5.45	4.96	0.19
8 4-Bromofluorobenz	8.25	7.75	8.75	8.27	0.24

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

Data File: /chem/msdk.i/K26aug10.b/K082607.d

Date: 26-AUG-2010 14:32

Client ID: LEVEL 3

Sample Info: J1869-39-10;LEVEL 3

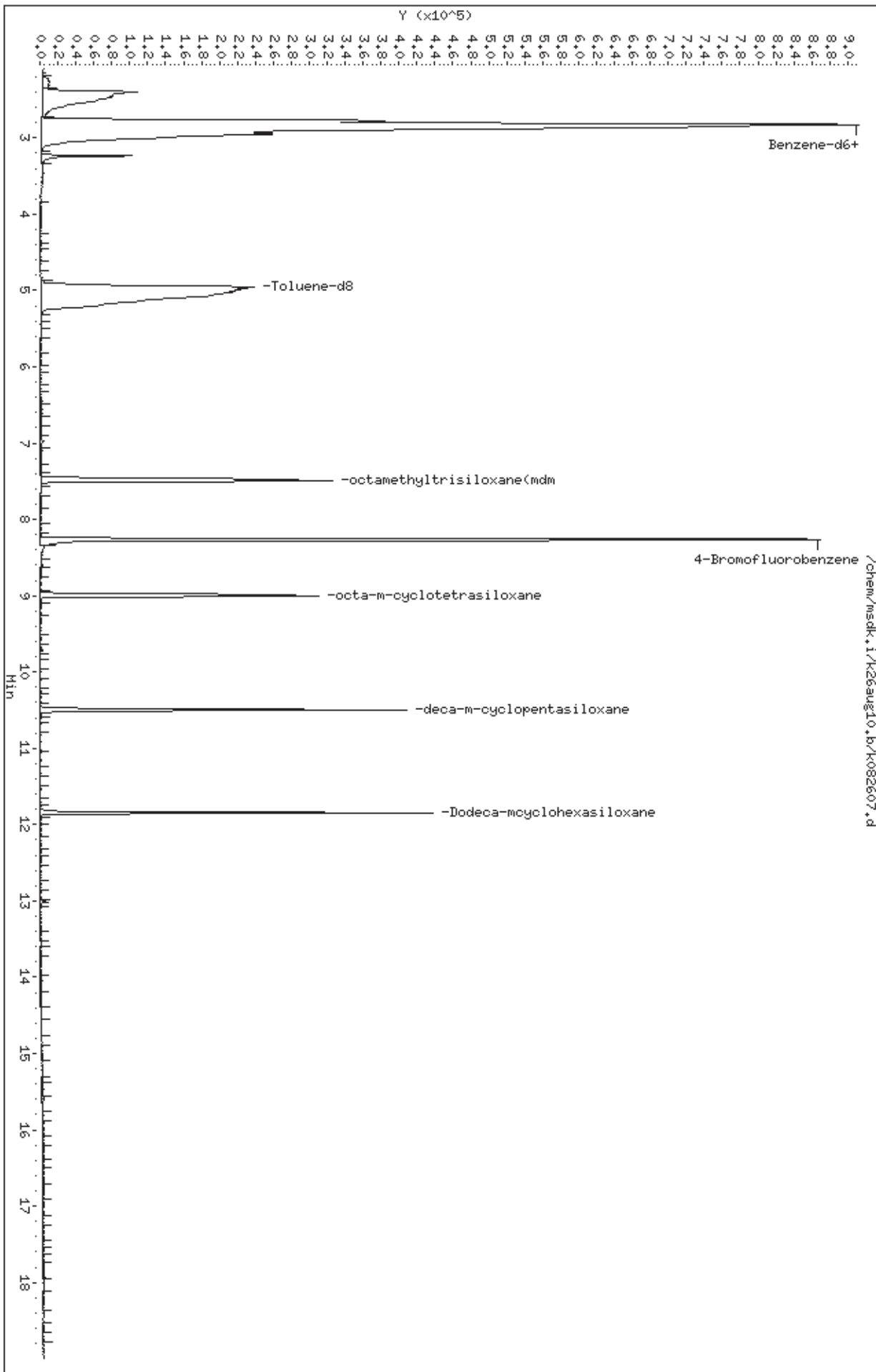
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

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Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082608.d
Lab Smp Id: 1869-39-25 Client Smp ID: LEVEL 4
Inj Date : 26-AUG-2010 14:56
Operator : CRL Inst ID: msdk.i
Smp Info : ;1869-39-25;LEVEL 4
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k26aug10.b/k10k0826.m
Meth Date : 28-Aug-2010 11:04 cleaf Quant Type: ISTD
Cal Date : 26-AUG-2010 14:56 Cal File: k082608.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
*****	====	==	=====	=====	=====	=====	=====
* 3 Benzene-d6	84	2.776	2.776	(1.000)	1255006	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.818	2.818	(1.015)	1978771	40.0000	40.4
5 hexamethyldisiloxane(mm)	147	2.952	2.952	(1.063)	1146846	25.0000	24.7
* 6 Toluene-d8	98	4.950	4.950	(1.000)	1094560	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.496	7.496	(1.514)	629964	25.0000	25.2
* 8 4-Bromofluorobenzene	174	8.262	8.262	(1.000)	311168	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.997	8.997	(1.089)	566447	25.0000	24.5
10 deca-m-cyclopentasiloxane(d5)	267	10.498	10.498	(1.271)	195487	25.0000	25.1
165 Dodeca-mcyclohexasiloxane(d6)	341	11.843	11.843	(1.433)	166814	25.0000	24.9

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i
 Lab File ID: k082608.d
 Lab Smp Id: 1869-39-25
 Analysis Type: SV
 Quant Type: ISTD
 Operator: CRL
 Method File: /chem/msdk.i/k26aug10.b/k10k0826.m
 Misc Info:

Calibration Date: 26-AUG-2010
 Calibration Time: 15:20
 Client Smp ID: LEVEL 4
 Level: MED
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1255006	-0.89
6 Toluene-d8	1096695	548348	2193390	1094560	-0.19
8 4-Bromofluorobenz	311899	155950	623798	311168	-0.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.78	0.33
6 Toluene-d8	4.95	4.45	5.45	4.95	-0.03
8 4-Bromofluorobenz	8.25	7.75	8.75	8.26	0.11

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

Data File: /chem/msdk.i/K26aug10.b/K082608.d

Date: 26-AUG-2010 14:56

Client ID: LEVEL 4

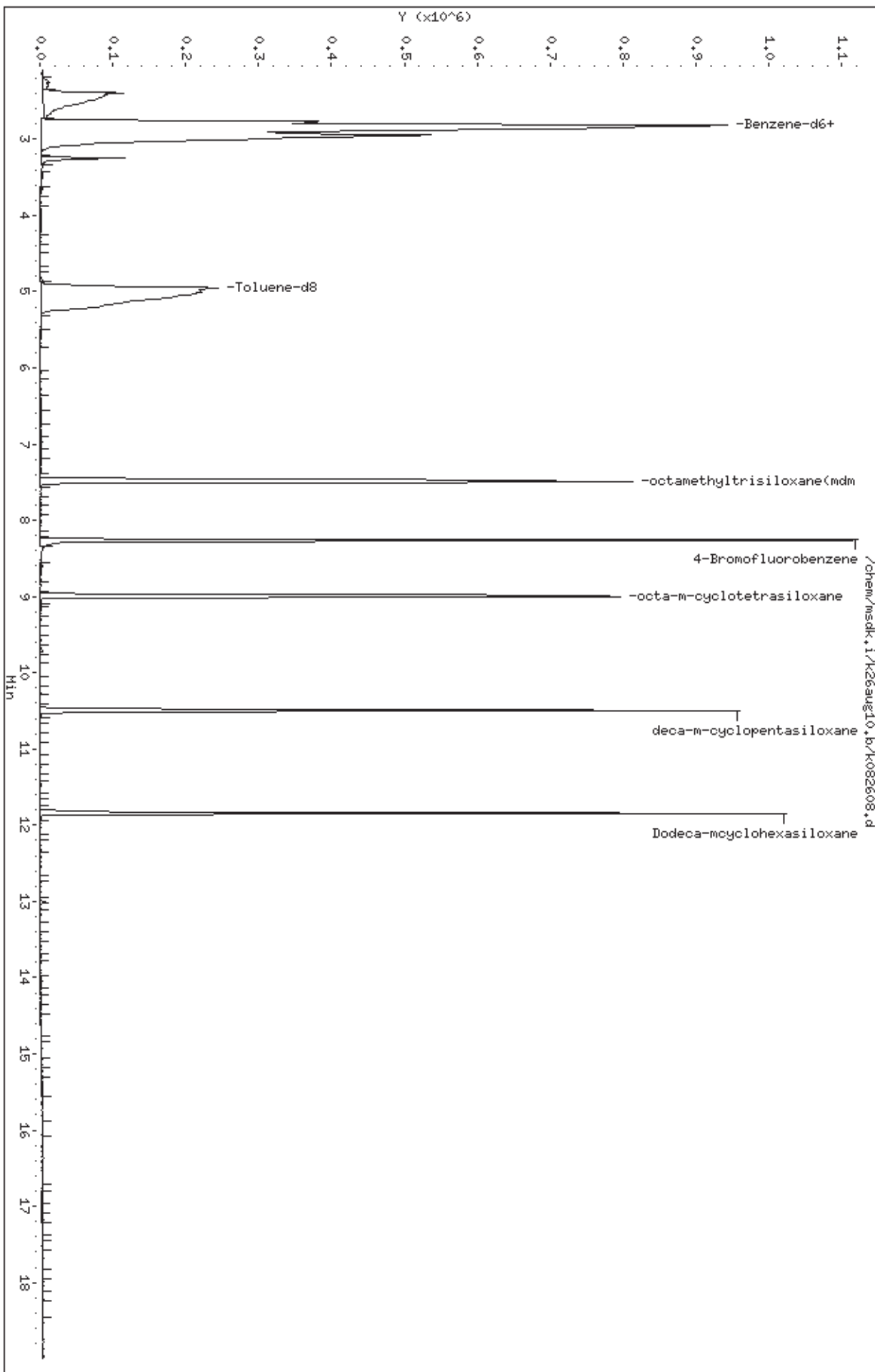
Sample Info: J1869-39-25;LEVEL 4

Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082609.d
 Lab Smp Id: 1869-67-50 Client Smp ID: LEVEL 5
 Inj Date : 26-AUG-2010 15:20
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-67-50;LEVEL 5
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 11:00 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 15:20 Cal File: k082609.d
 Als bottle: 8 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: $\text{Amt} * \text{DF} * \text{v} * \text{CpndVariable}$
 $\text{v} \quad 0.00000 \quad \text{final volume}$

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84	2.767	2.767	(1.000)	1266297	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.819	2.819	(1.019)	1971986	40.0000	40.0
5 hexamethyldisiloxane(mm)	147	2.943	2.943	(1.064)	2273261	50.0000	50.0
* 6 Toluene-d8	98	4.951	4.951	(1.000)	1096695	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.487	7.487	(1.512)	1223960	50.0000	50.0
* 8 4-Bromofluorobenzene	174	8.253	8.253	(1.000)	311899	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.998	8.998	(1.090)	1079669	50.0000	50.0
10 deca-m-cyclopentasiloxane(d5)	267	10.499	10.499	(1.272)	377478	50.0000	50.0
165 Dodeca-mcyclohexasiloxane(d6)	341	11.844	11.844	(1.435)	310177	50.0000	50.0

Data File: /chem/msdk.i/K26aug10.b/K082609.d

Date: 26-AUG-2010 15:20

Client ID: LEVEL 5

Sample Info: #1869-67-50;LEVEL 5

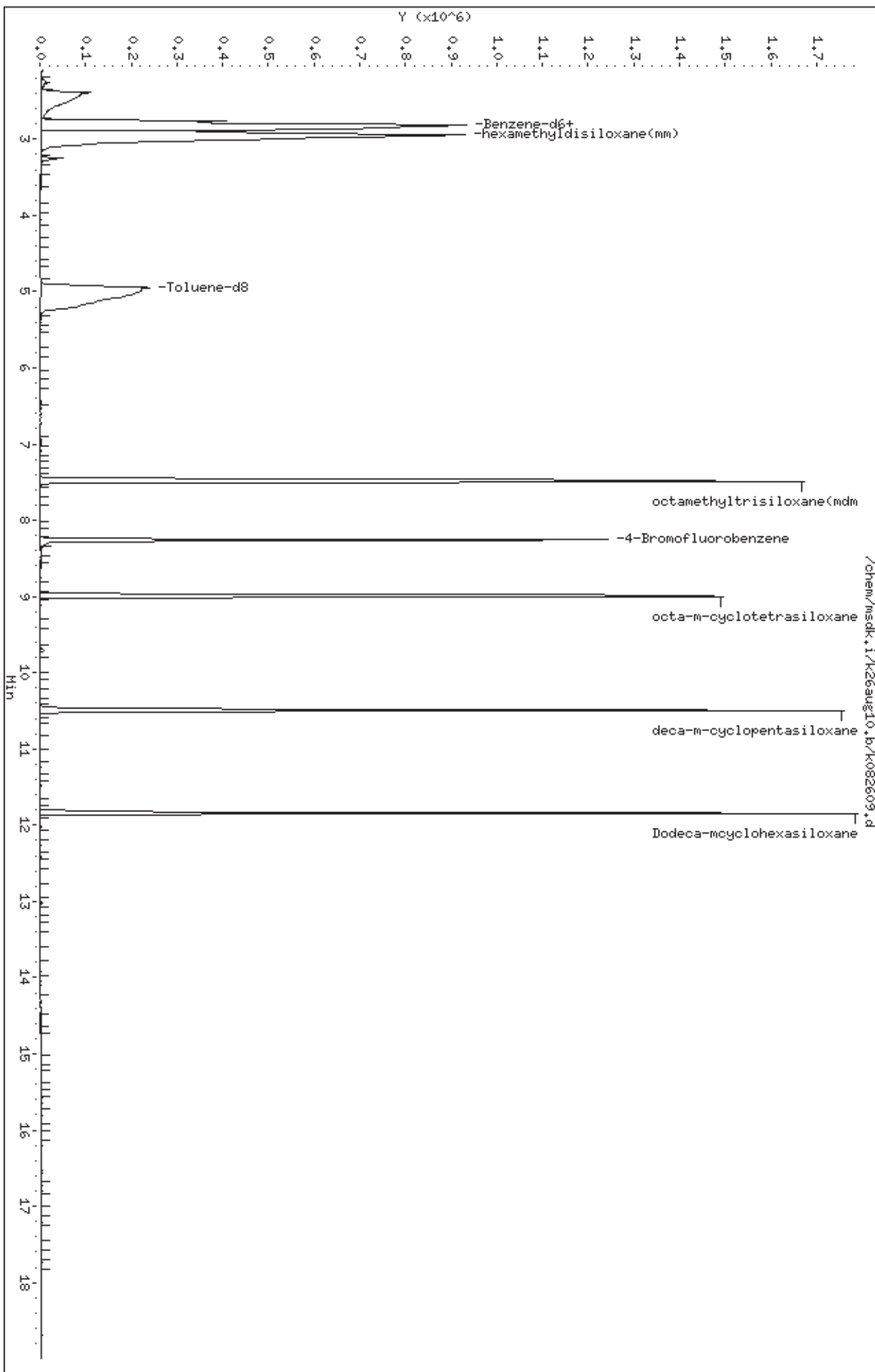
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

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Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082610.d
 Lab Smp Id: 1869-39-100 Client Smp ID: LEVEL 6
 Inj Date : 26-AUG-2010 15:45
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-39-100;LEVEL 6
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 15:45 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 15:45 Cal File: k082610.d
 Als bottle: 9 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84	2.755	2.755	(1.000)	1437418	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.807	2.807	(1.019)	2246037	40.0000	40.0
5 hexamethyldisiloxane(mm)	147	2.931	2.931	(1.064)	5085893	100.000	97.4
* 6 Toluene-d8	98	4.939	4.939	(1.000)	1286387	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.496	7.496	(1.518)	2639573	100.000	94.4
* 8 4-Bromofluorobenzene	174	8.262	8.262	(1.000)	351970	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.996	8.996	(1.089)	2218526	100.000	91.0
10 deca-m-cyclopentasiloxane(d5)	267	10.497	10.497	(1.271)	804653	100.000	95.6
165 Dodeca-mcyclohexasiloxane(d6)	341	11.843	11.843	(1.433)	645257	100.000	91.7

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 26-AUG-2010
Lab File ID: k082610.d	Calibration Time: 15:20
Lab Smp Id: 1869-39-100	Client Smp ID: LEVEL 6
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1437418	13.51
6 Toluene-d8	1097277	548638	2194554	1286387	17.23
8 4-Bromofluorobenz	311899	155950	623798	351970	12.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.76	-0.43
6 Toluene-d8	4.95	4.45	5.45	4.94	-0.24
8 4-Bromofluorobenz	8.25	7.75	8.75	8.26	0.11

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

Data File: /chem/msdk.i/K26aug10.b/K082610.d

Date: 26-AUG-2010 15:45

Client ID: LEVEL 6

Sample Info: J1869-39-100;LEVEL 6

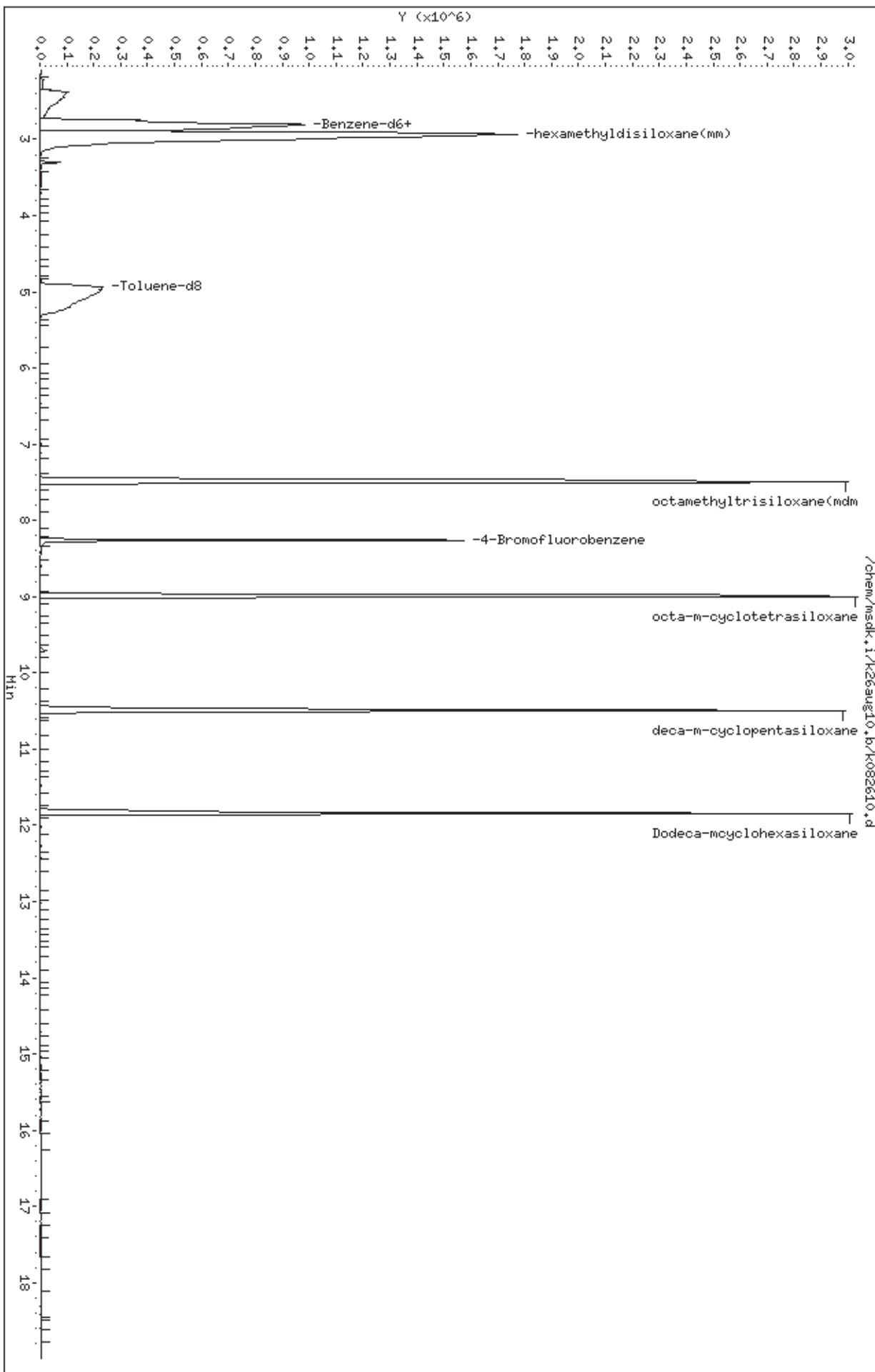
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

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Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082611.d
 Lab Smp Id: 1869-39-120 Client Smp ID: LEVEL 7
 Inj Date : 26-AUG-2010 16:09
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-39-120;LEVEL 7
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 11:04 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 16:09 Cal File: k082611.d
 Als bottle: 10 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84	2.756	2.756	(1.000)	1338548	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.818	2.818	(1.023)	2117057	40.0000	40.4
5 hexamethyldisiloxane(mm)	147	2.943	2.943	(1.068)	5715085	120.000	116
* 6 Toluene-d8	98	4.950	4.950	(1.000)	1193804	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.497	7.497	(1.514)	2868094	120.000	108
* 8 4-Bromofluorobenzene	174	8.262	8.262	(1.000)	329418	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.997	8.997	(1.089)	2417627	120.000	102
10 deca-m-cyclopentasiloxane(d5)	267	10.498	10.498	(1.271)	869835	120.000	108
165 Dodeca-mcyclohexasiloxane(d6)	341	11.844	11.844	(1.433)	693760	120.000	101

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 26-AUG-2010
Lab File ID: k082611.d	Calibration Time: 15:20
Lab Smp Id: 1869-39-120	Client Smp ID: LEVEL 7
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1338548	5.71
6 Toluene-d8	1096695	548348	2193390	1193804	8.85
8 4-Bromofluorobenz	311899	155950	623798	329418	5.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.76	-0.40
6 Toluene-d8	4.95	4.45	5.45	4.95	-0.01
8 4-Bromofluorobenz	8.25	7.75	8.75	8.26	0.12

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

Data File: /chem/msdk.i/K26aug10.b/K082611.d

Date: 26-AUG-2010 16:09

Client ID: LEVEL 7

Sample Info: #1869-39-120;LEVEL 7

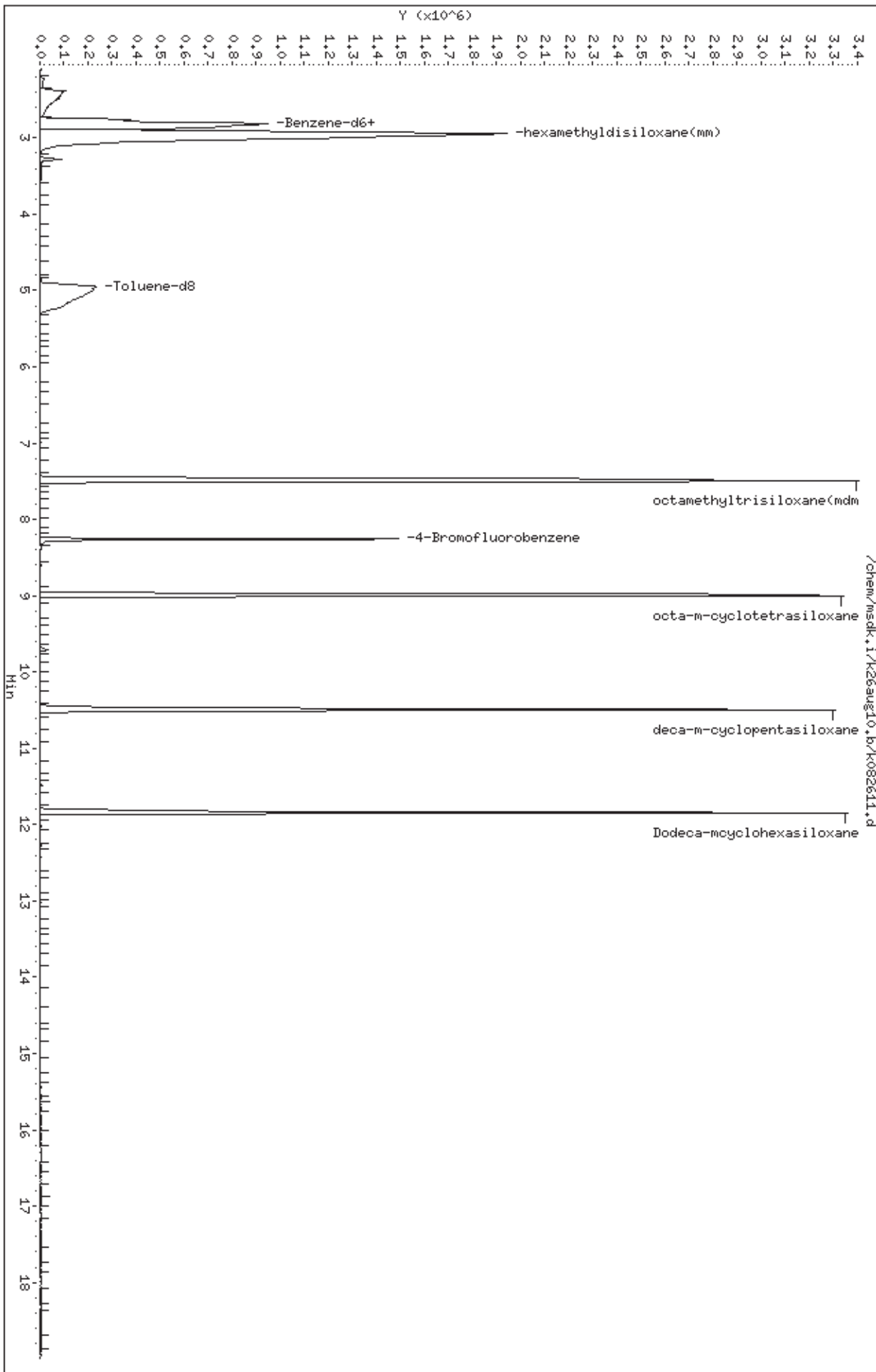
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

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Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26aug10.b/k082612.d
 Lab Smp Id: 1869-39-160 Client Smp ID: LEVEL 8
 Inj Date : 26-AUG-2010 16:33
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-39-160;LEVEL 8
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k26aug10.b/k10k0826.m
 Meth Date : 28-Aug-2010 11:04 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
 Als bottle: 11 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84	2.766	2.766	(1.000)	1268940	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.817	2.817	(1.019)	1959938	40.0000	39.5
5 hexamethyldisiloxane(mm)	147	2.941	2.941	(1.064)	6973530	160.000	151
* 6 Toluene-d8	98	4.949	4.949	(1.000)	1140939	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.496	7.496	(1.514)	3535751	160.000	141
* 8 4-Bromofluorobenzene	174	8.261	8.261	(1.000)	318750	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	8.996	8.996	(1.089)	2981398	160.000	133
10 deca-m-cyclopentasiloxane(d5)	267	10.507	10.507	(1.272)	1090164	160.000	142
165 Dodeca-mcyclohexasiloxane(d6)	341	11.853	11.853	(1.435)	845928	160.000	131

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k082612.d
Lab Smp Id: 1869-39-160
Analysis Type: SV
Quant Type: ISTD
Operator: CRL
Method File: /chem/msdk.i/k26aug10.b/k10k0826.m
Misc Info:

Calibration Date: 26-AUG-2010
Calibration Time: 15:20
Client Smp ID: LEVEL 8
Level: MED
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	1266297	633148	2532594	1268940	0.21
6 Toluene-d8	1096695	548348	2193390	1140939	4.03
8 4-Bromofluorobenz	311899	155950	623798	318750	2.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.77	2.27	3.27	2.77	-0.06
6 Toluene-d8	4.95	4.45	5.45	4.95	-0.04
8 4-Bromofluorobenz	8.25	7.75	8.75	8.26	0.10

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

Data File: /chem/msdk.i/K26aug10.b/K082612.d

Date: 26-AUG-2010 16:33

Client ID: LEVEL 8

Sample Info: J1869-39-160;LEVEL 8

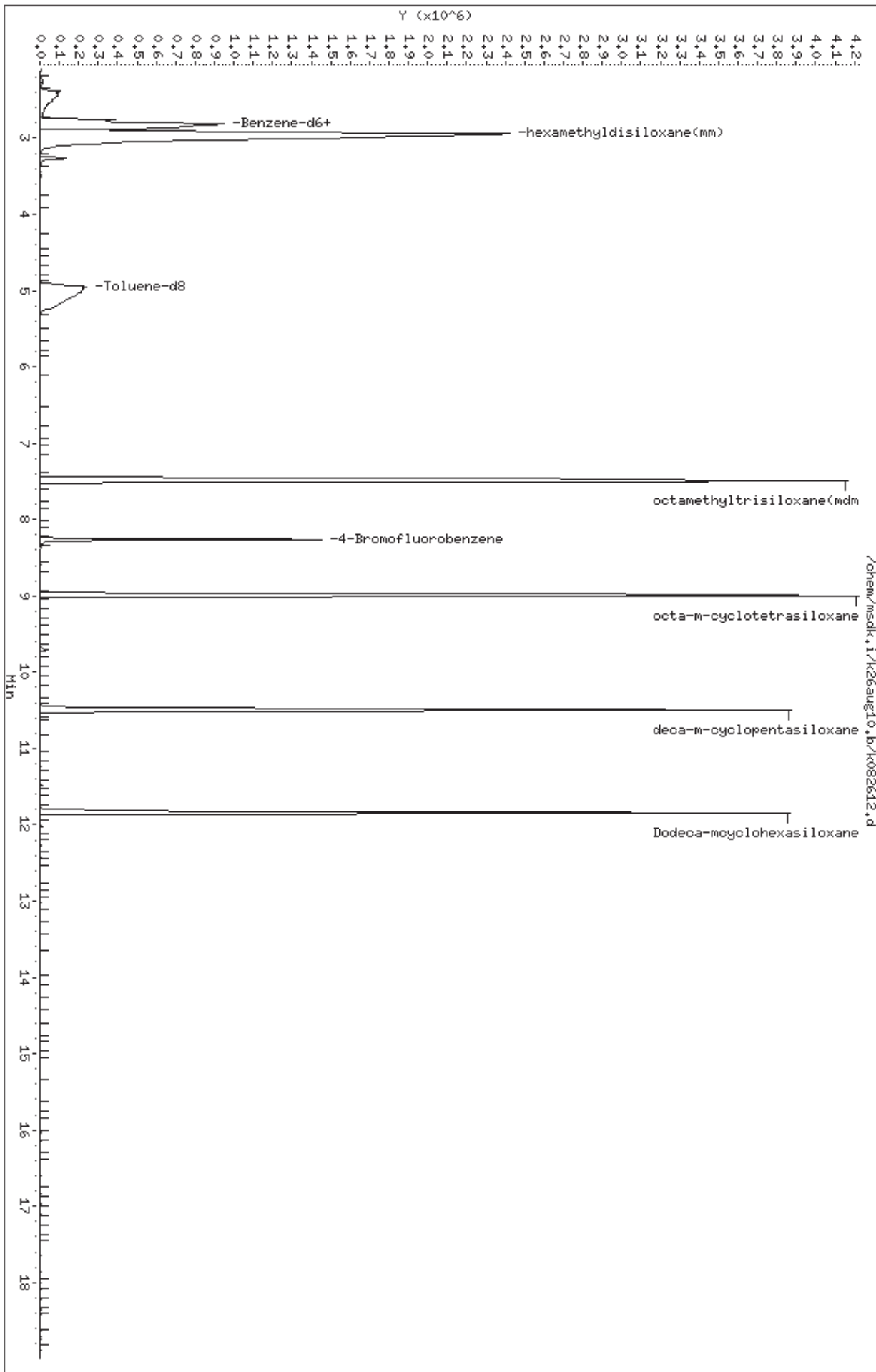
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

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Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdk.i Injection Date: 23-SEP-2010 10:41
 Lab File ID: k092304.d Init. Cal. Date(s): 26-AUG-2010 26-AUG-2010
 Analysis Type: WATER Init. Cal. Times: 13:44 16:33
 Lab Sample ID: 1869-67-50 Quant Type: ISTD
 Method: /chem/msdk.i/k23sep10.b/k10k0826.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
\$ 4 Hexamethyldisiloxane-d18	1.56279	1.64256	0.050	-5.10399	30.00000	Averaged	
5 hexamethyldisiloxane(mm)	1.45824	1.55109	0.050	-6.36691	30.00000	Averaged	
7 octamethyltrisiloxane(mdm)	0.87667	0.98601	0.050	-12.47290	30.00000	Averaged	
9 octa-m-cyclotetrasiloxane(d)	2.80627	2.92235	0.050	-4.13676	30.00000	Averaged	
10 deca-m-cyclopentasiloxane(d)	0.96259	0.97052	0.050	-0.82366	30.00000	Averaged	
165 Dodeca-mcyclohexasiloxane(d)	0.80914	0.79827	0.050	1.34375	30.00000	Averaged	

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k23sep10.b/k092304.d
 Lab Smp Id: 1869-67-50 Client Smp ID: CCV
 Inj Date : 23-SEP-2010 10:41
 Operator : CRL Inst ID: msdk.i
 Smp Info : ;1869-67-50;CCV
 Misc Info :
 Comment : HP5MS 30m x 0.25 mm 0.25u
 Method : /chem/msdk.i/k23sep10.b/k10k0826.m
 Meth Date : 23-Sep-2010 11:06 cleaf Quant Type: ISTD
 Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: silo.sub
 Target Version: 3.50
 Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
 v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3 Benzene-d6	84	2.829	2.829	(1.000)	969836	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.870	2.870	(1.015)	1593012	40.0000	42.0
5 hexamethyldisiloxane(mm)	147	2.994	2.994	(1.059)	1880375	50.0000	53.2
* 6 Toluene-d8	98	5.002	5.002	(1.000)	827822	40.0000	
7 octamethyltrisiloxane(mdm)	221	7.496	7.496	(1.499)	1020306	50.0000	56.2
* 8 4-Bromofluorobenzene	174	8.273	8.273	(1.000)	243559	40.0000	
9 octa-m-cyclotetrasiloxane(d4)	281	9.008	9.008	(1.089)	889707	50.0000	52.1
10 deca-m-cyclopentasiloxane(d5)	267	10.508	10.508	(1.270)	295473	50.0000	50.4
165 Dodeca-mcyclohexasiloxane(d6)	341	11.844	11.844	(1.432)	243031	50.0000	49.3

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i
 Lab File ID: k092304.d
 Lab Smp Id: 1869-67-50
 Analysis Type: SV
 Quant Type: ISTD
 Operator: CRL
 Method File: /chem/msdk.i/k23sep10.b/k10k0826.m
 Misc Info:

Calibration Date: 23-SEP-2010
 Calibration Time: 10:41
 Client Smp ID: CCV
 Level: MED
 Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	969836	484918	1939672	969836	0.00
6 Toluene-d8	827822	413911	1655644	827822	0.00
8 4-Bromofluorobenz	243559	121780	487118	243559	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.83	2.33	3.33	2.83	0.00
6 Toluene-d8	5.00	4.50	5.50	5.00	0.00
8 4-Bromofluorobenz	8.27	7.77	8.77	8.27	0.00

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

Data File: /chem/msdk.i/K23sep10.b/K092304.d

Date: 23-SEP-2010 10:41

Client ID: CCV

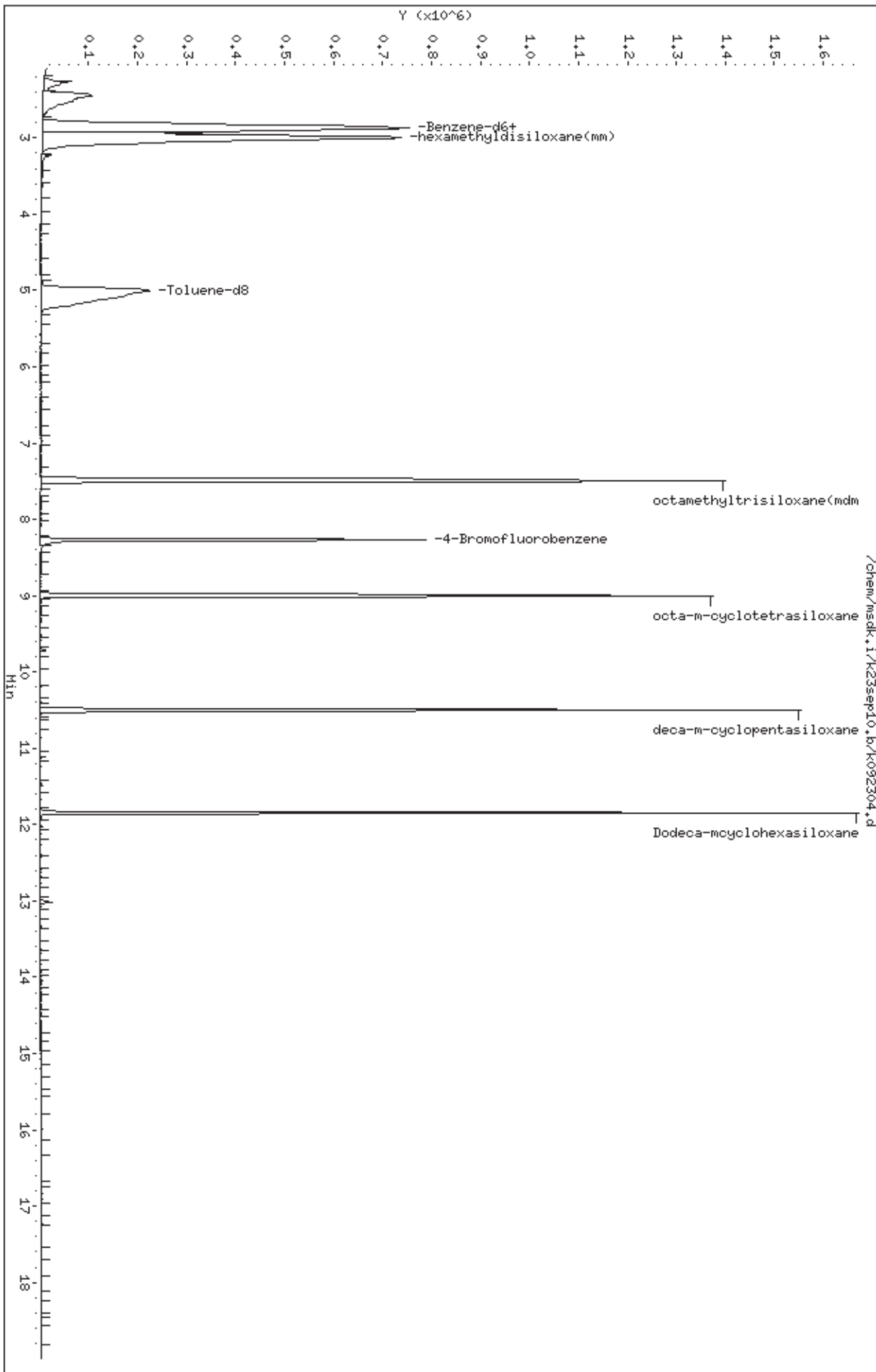
Sample Info: J1869-67-50;CCV

Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25





Client Sample ID: LCS

Lab ID#: 1009288-03A

SILOXANES - GC/MS

File Name:	k092305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/23/10 11:10 AM

Compound	%Recovery
Octamethylcyclotetrasiloxane (D4)	103
Decamethylcyclopentasiloxane (D5)	105
Dodecamethylcyclohexasiloxane (D6)	100
Hexamethyldisiloxane	113
Octamethyltrisiloxane	129

Air Sample Volume(L): 5.04

Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	106	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k23sep10
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1869-68-50 Client Smp ID: LCS
 Level: MED Operator: CRL
 Data Type: MS DATA SampleType: LCS
 SpikeList File: LCS50.spk Quant Type: ISTD
 Sublist File: silo.sub
 Method File: /chem/msdk.i/k23sep10.b/k10k0826.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	56.4	112.89	70-130
7 octamethyltrisilox	50.0	64.4	128.72	70-130
9 octa-m-cyclotetras	50.0	51.5	103.09	70-130
10 deca-m-cyclopentas	50.0	52.5	104.98	70-130
165 Dodeca-mcyclohexas	50.0	50.2	100.41	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
\$ 4 Hexamethyldisiloxa	40.0	42.2	105.51	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k23sep10.b/k092305.d
Lab Smp Id: 1869-68-50 Client Smp ID: LCS
Inj Date : 23-SEP-2010 11:10
Operator : CRL Inst ID: msdk.i
Smp Info : ;1869-68-50;LCS
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k23sep10.b/k10k0826.m
Meth Date : 23-Sep-2010 11:06 cleaf Quant Type: ISTD
Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (uG/mL)	FINAL (ug)
* 3 Benzene-d6	====	84	2.821	2.829	(1.000)	921174	40.0000	=====
\$ 4 Hexamethyldisiloxane-d18		162	2.873	2.870	(1.018)	1518888	42.2030	42.2
5 hexamethyldisiloxane(mm)		147	2.997	2.994	(1.062)	1895598	56.4463	56.4
* 6 Toluene-d8		98	5.005	5.002	(1.000)	773646	40.0000	
7 octamethyltrisiloxane(mdm)		221	7.499	7.496	(1.498)	1091279	64.3603	64.4
* 8 4-Bromofluorobenzene		174	8.275	8.273	(1.000)	237977	40.0000	
9 octa-m-cyclotetrasiloxane(d4)		281	9.000	9.008	(1.088)	860590	51.5456	51.5
10 deca-m-cyclopentasiloxane(d5)		267	10.501	10.508	(1.269)	300596	52.4887	52.5
165 Dodeca-mcyclohexasiloxane(d6)		341	11.846	11.844	(1.431)	241682	50.2048	50.2

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 23-SEP-2010
Lab File ID: k092305.d	Calibration Time: 10:41
Lab Smp Id: 1869-68-50	Client Smp ID: LCS
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k23sep10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	969836	484918	1939672	921174	-5.02
6 Toluene-d8	827822	413911	1655644	773646	-6.54
8 4-Bromofluorobenz	243559	121780	487118	237977	-2.29

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.83	2.33	3.33	2.82	-0.27
6 Toluene-d8	5.00	4.50	5.50	5.00	0.05
8 4-Bromofluorobenz	8.27	7.77	8.77	8.28	0.03

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

Data File: /chem/msdk.i/K23sep10.b/K092305.d

Date: 23-SEP-2010 11:10

Client ID: LCS

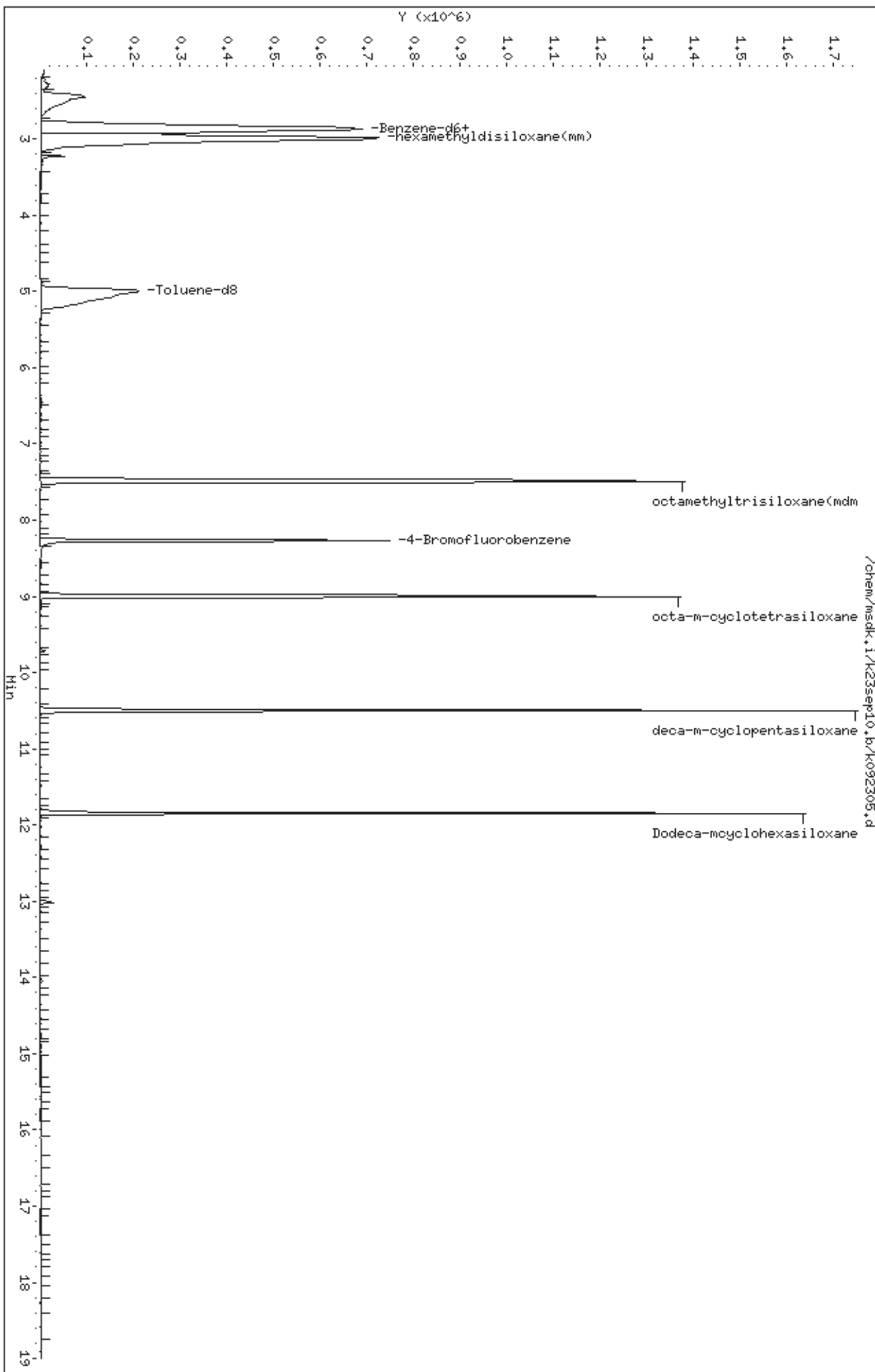
Sample Info: #1869-68-50;LCS

Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25



Date : 23-SEP-2010 11:10

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

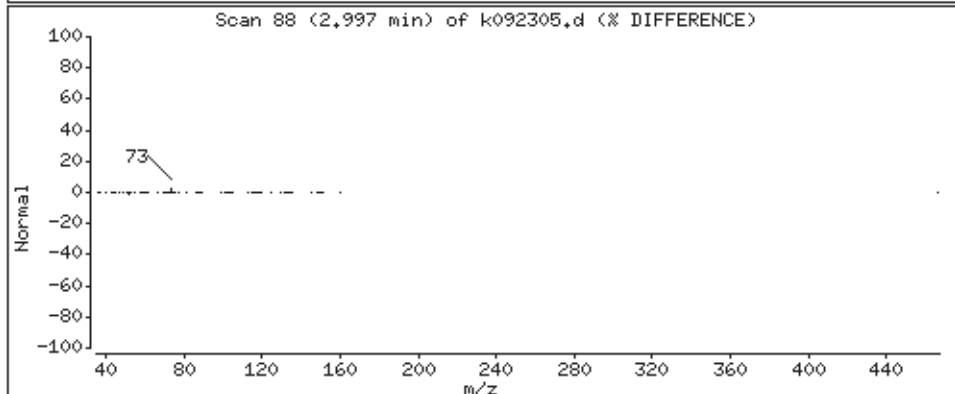
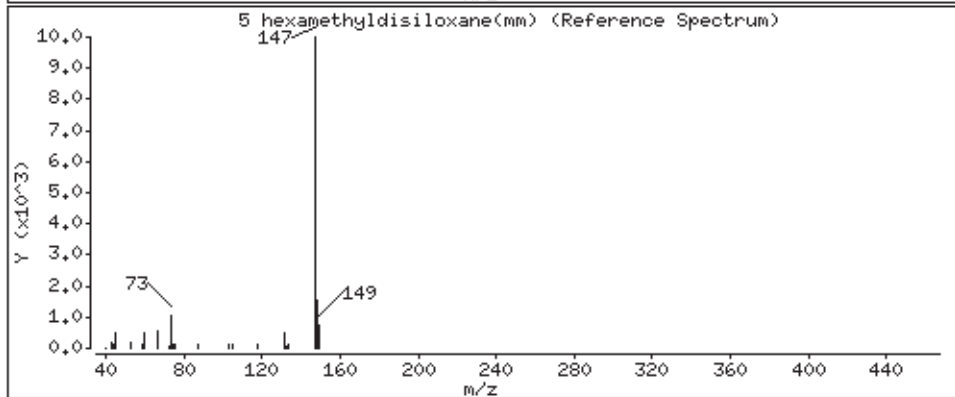
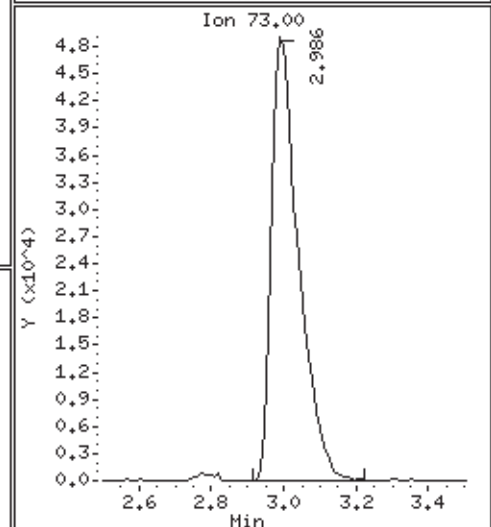
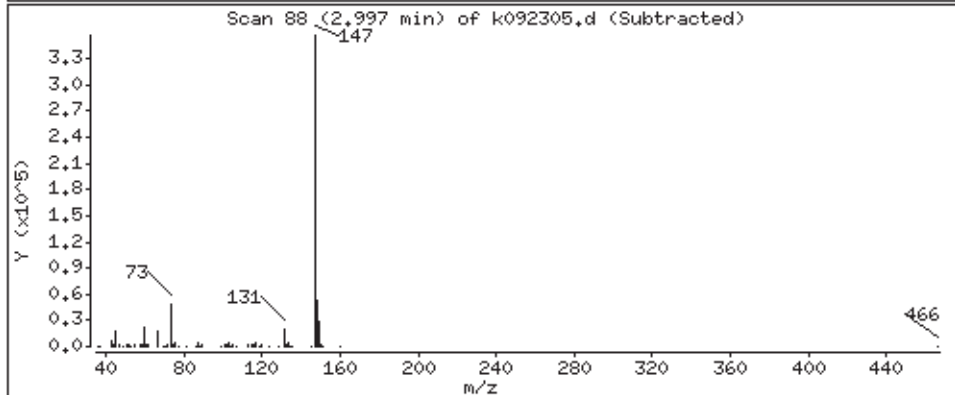
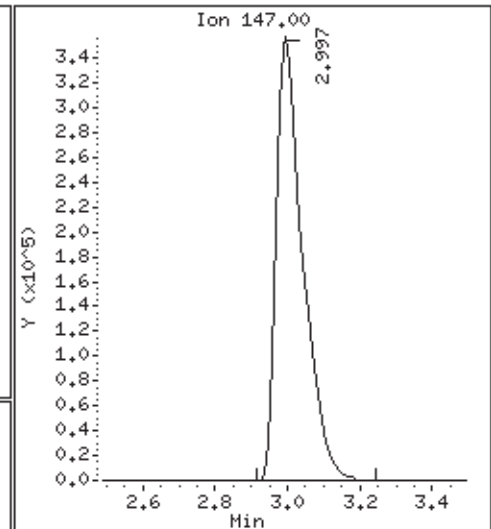
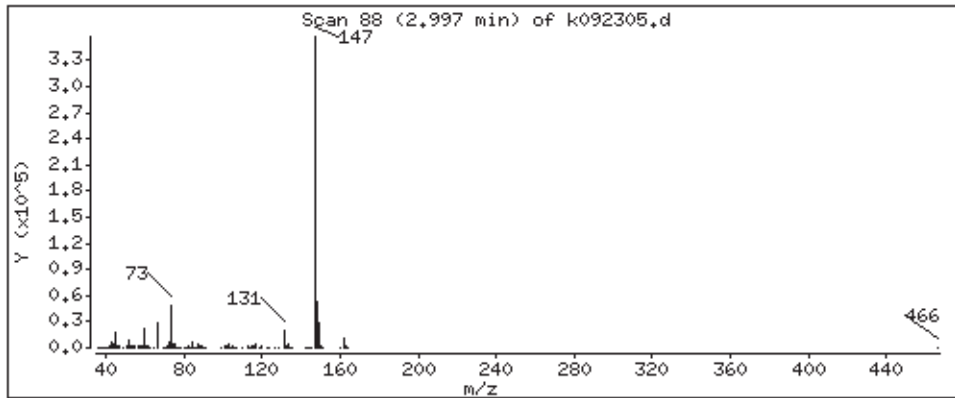
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

5 hexamethyldisiloxane(mm)

Concentration: 56.4 ug



Date : 23-SEP-2010 11:10

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

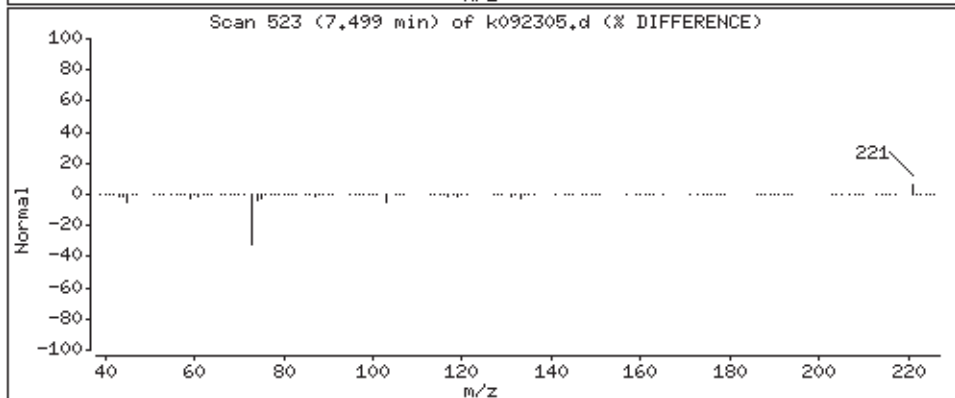
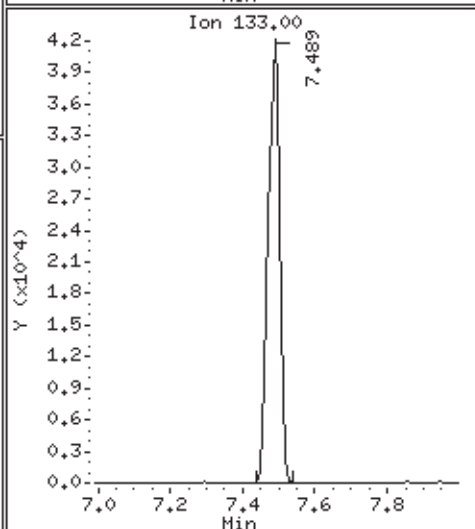
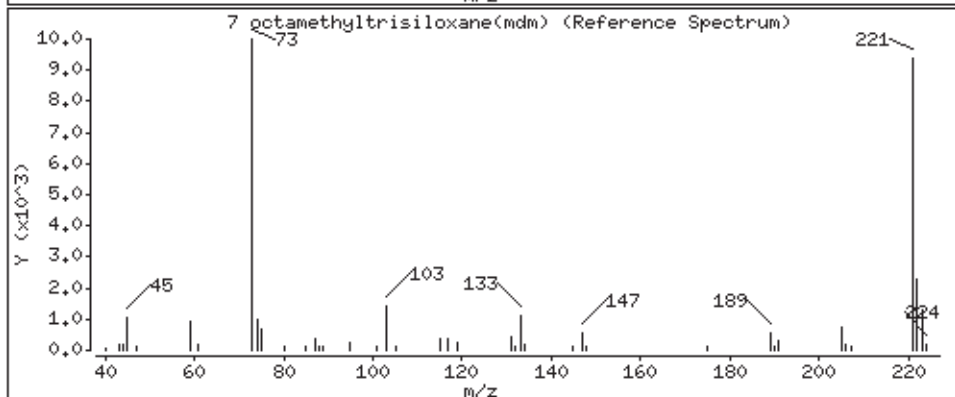
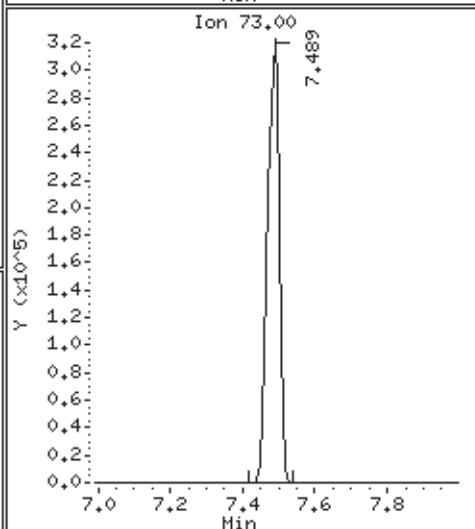
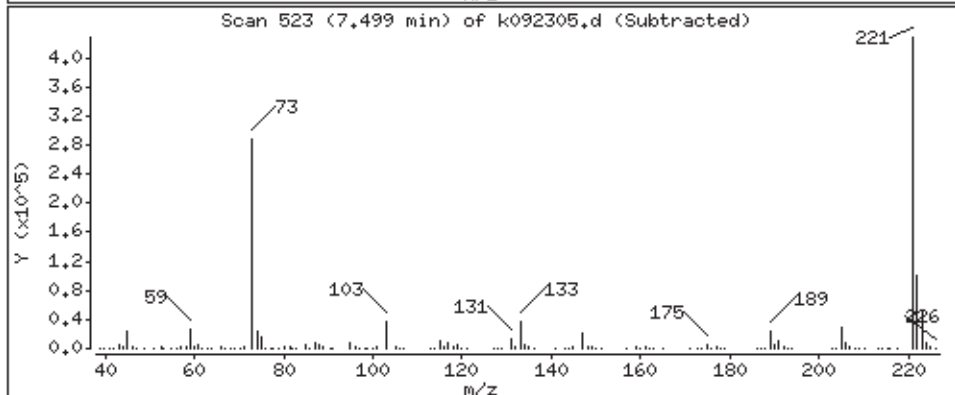
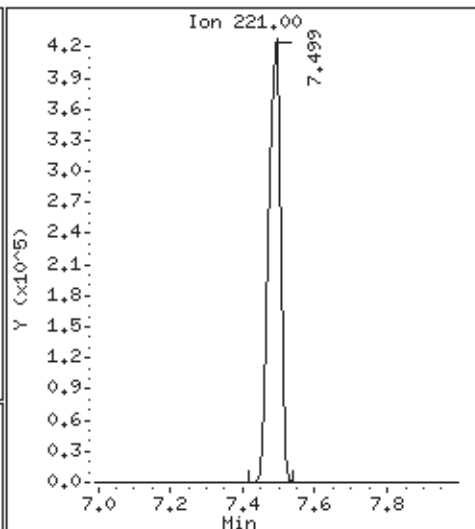
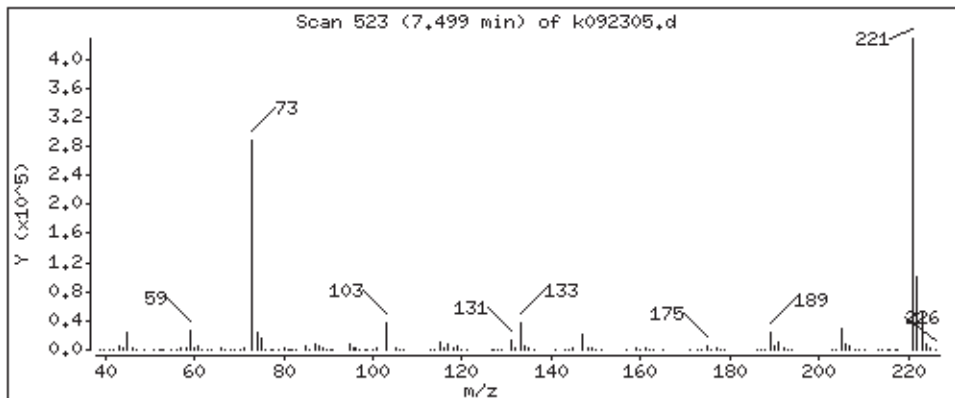
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

7 octamethyltrisiloxane(mdm)

Concentration: 64.4 ug



Date : 23-SEP-2010 11:10

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

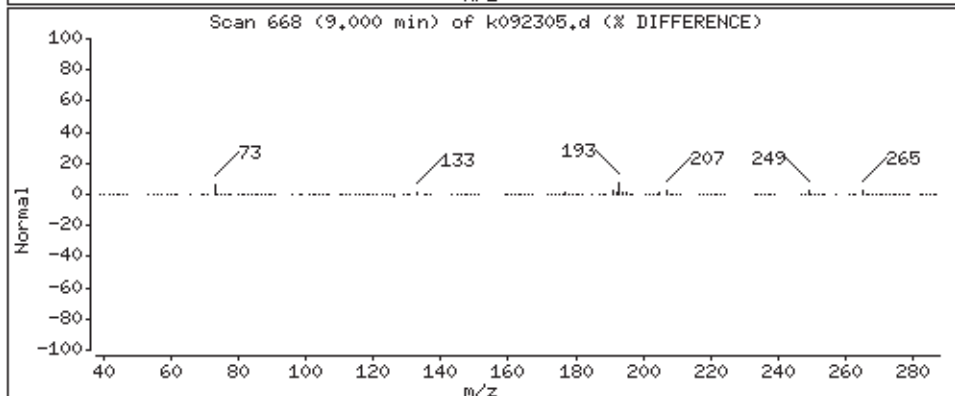
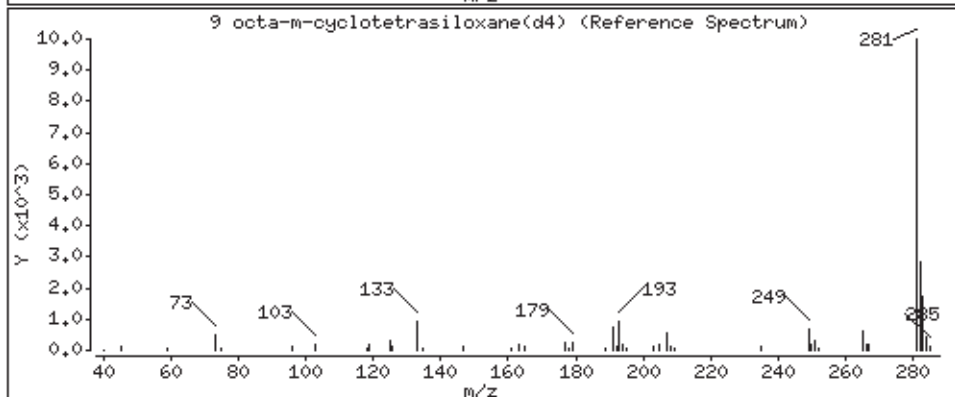
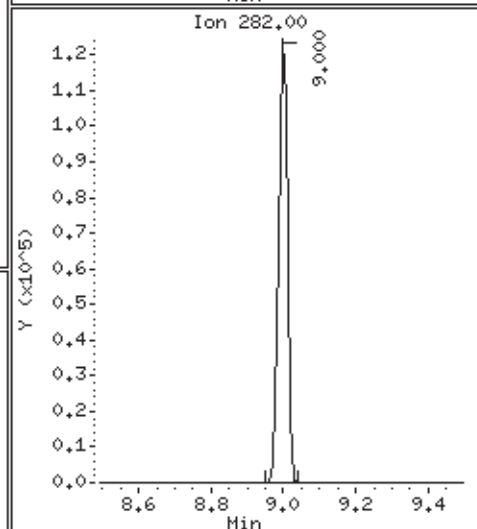
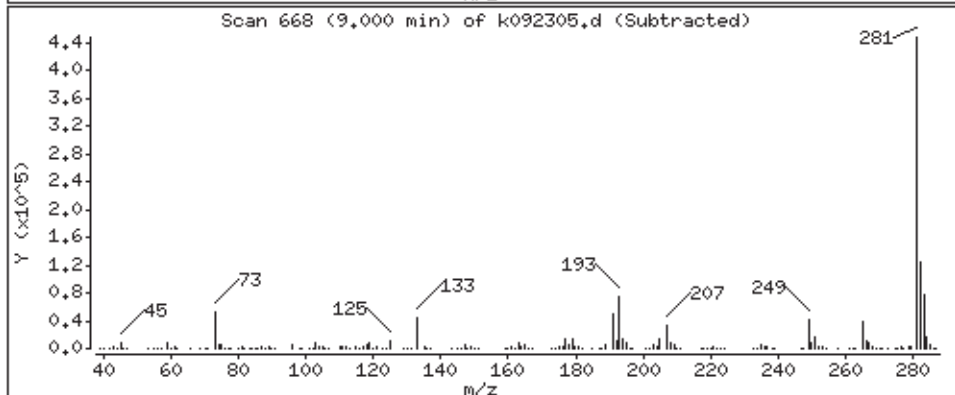
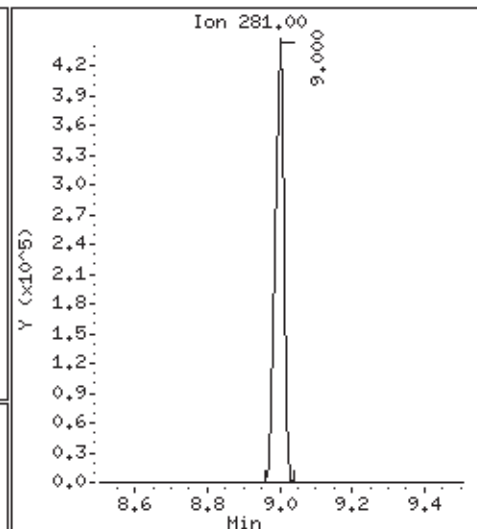
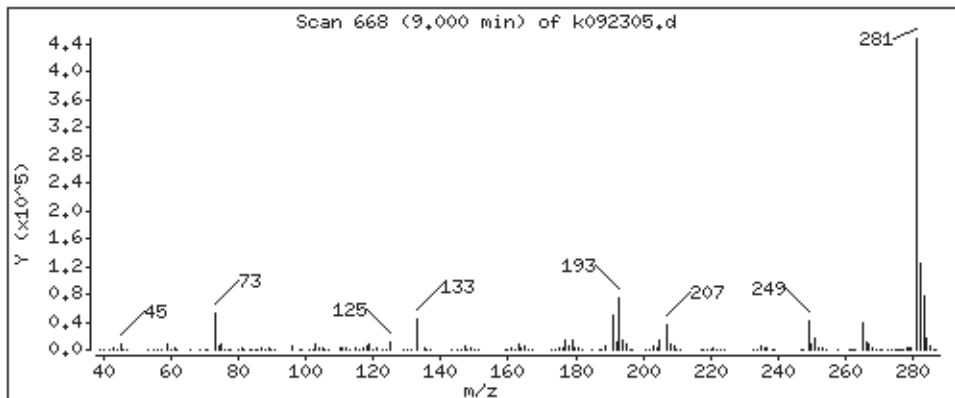
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

9 octa-m-cyclotetrasiloxane(d4)

Concentration: 51,5 ug



Date : 23-SEP-2010 11:10

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

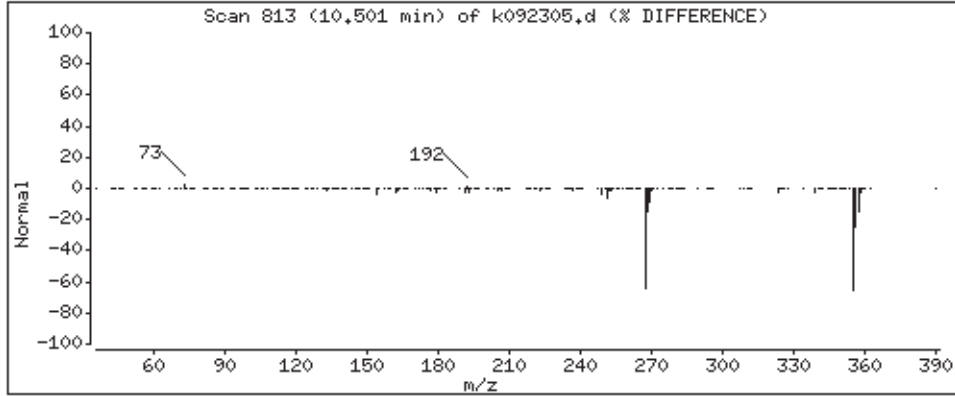
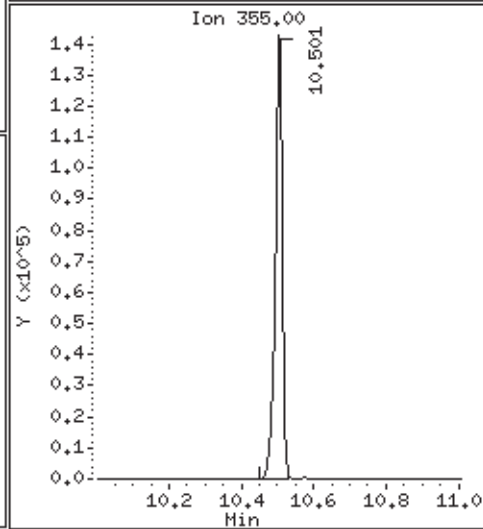
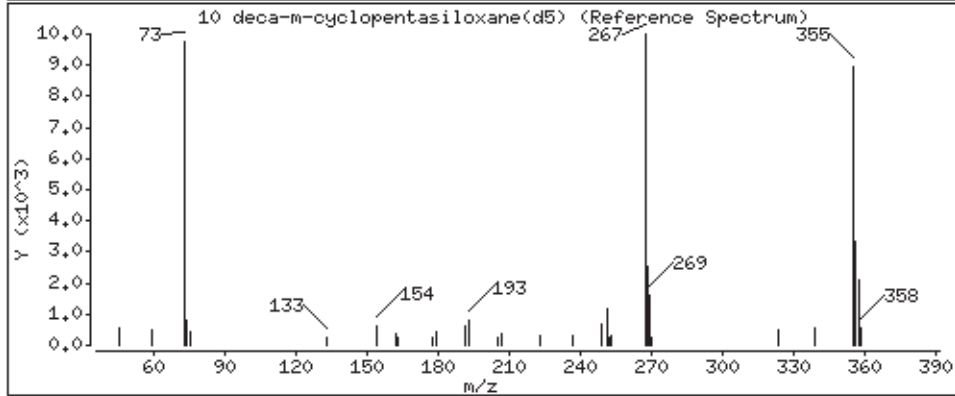
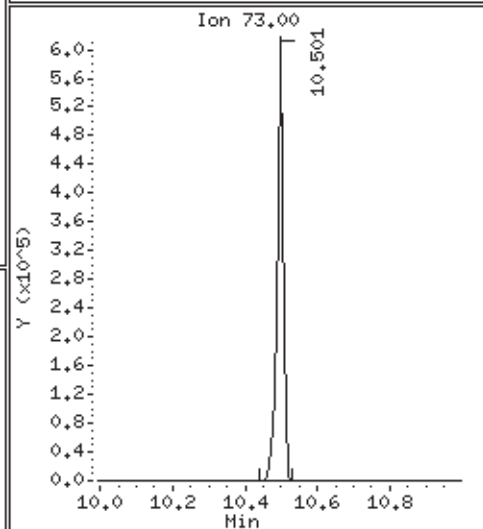
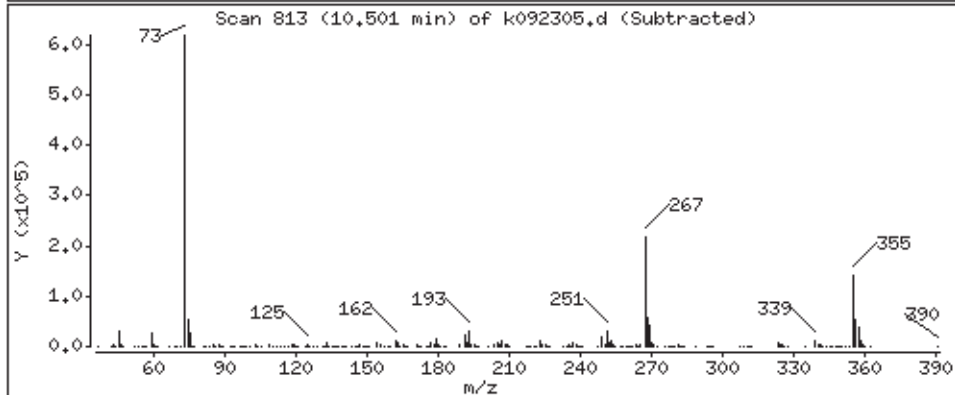
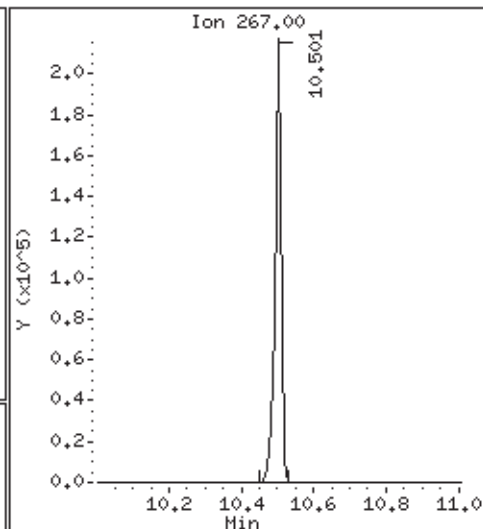
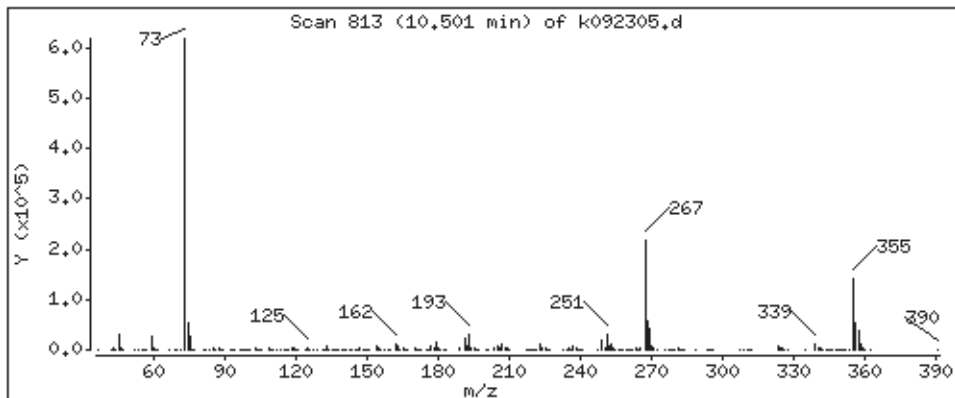
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

10 deca-m-cyclopentasiloxane(d5)

Concentration: 52,5 ug



Date : 23-SEP-2010 11:10

Client ID: LCS

Instrument: msdk,i

Sample Info: ;1869-68-50;LCS

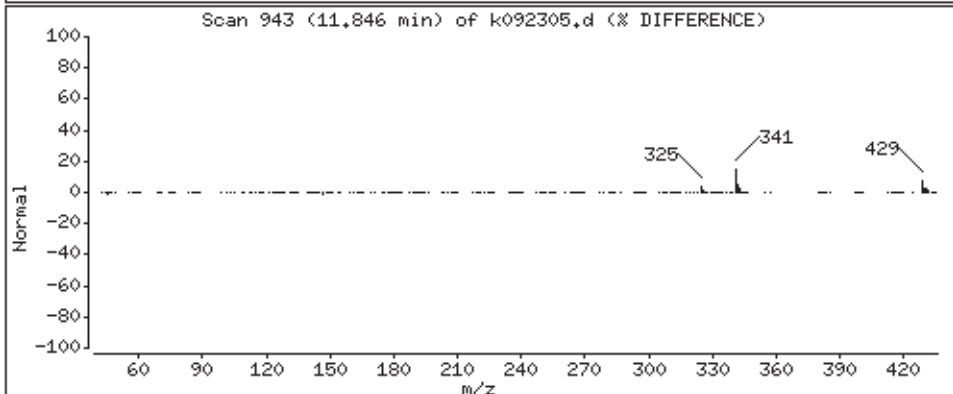
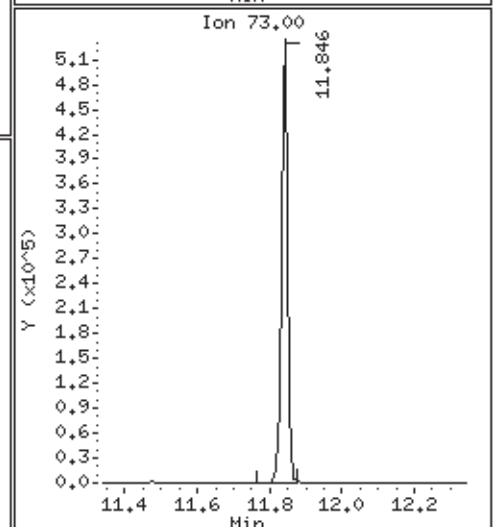
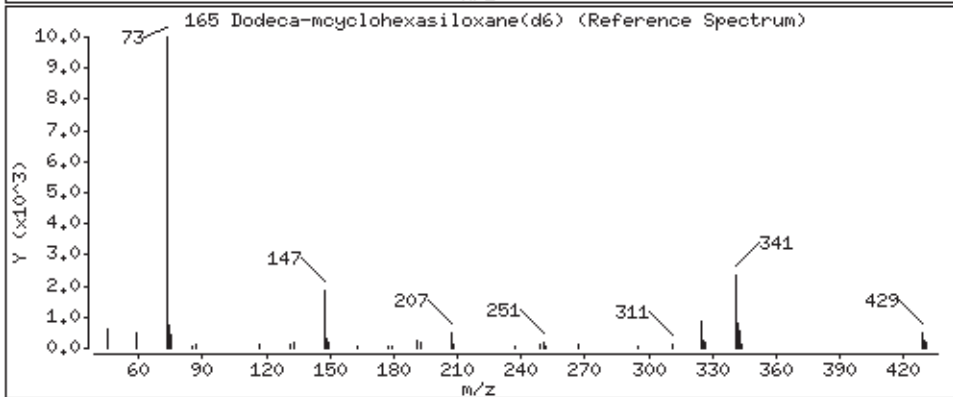
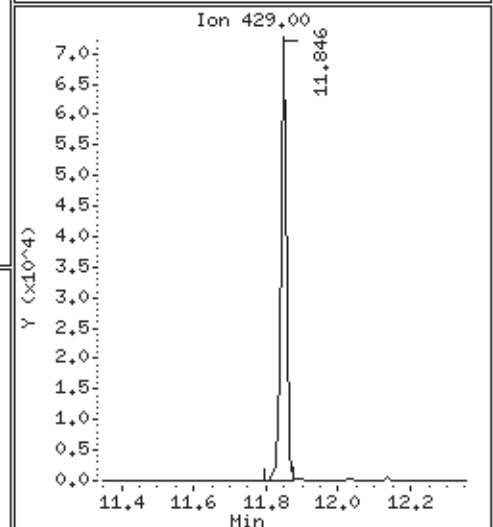
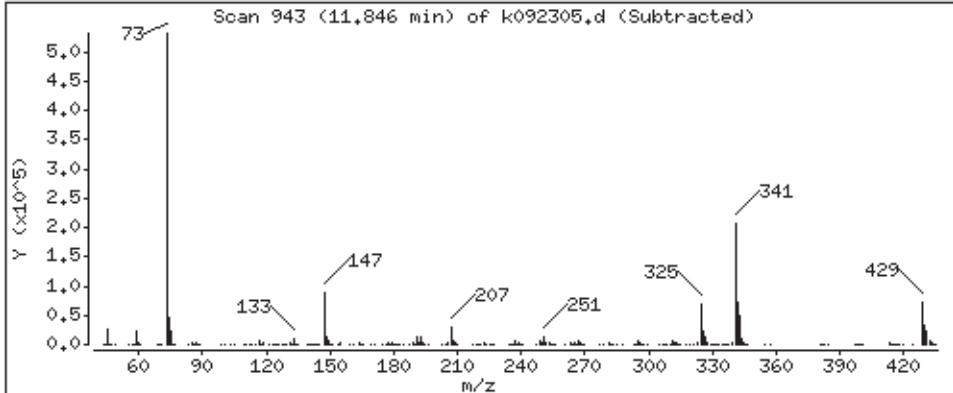
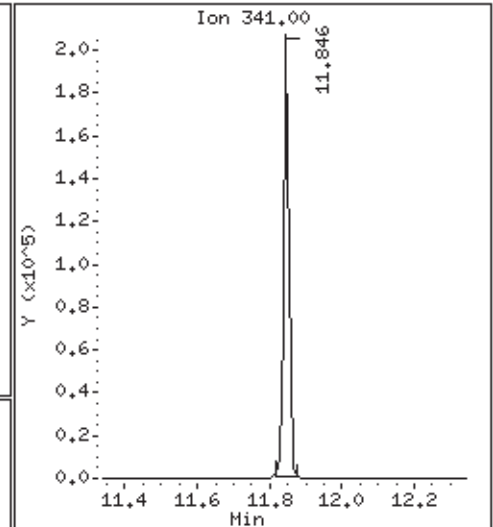
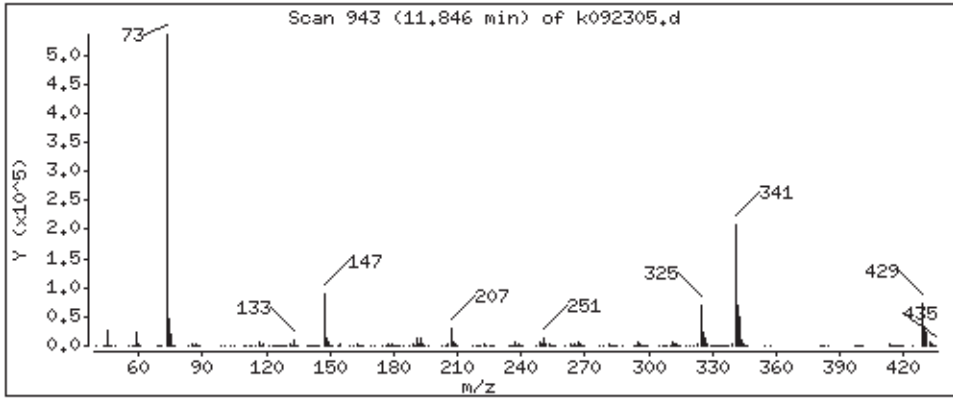
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

165 Dodeca-mcyclohexasiloxane(d6)

Concentration: 50,2 ug



Client Sample ID: LCSD

Lab ID#: 1009288-03AA

SILOXANES - GC/MS

File Name:	k092306	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/23/10 11:34 AM

Compound	%Recovery
Octamethylcyclotetrasiloxane (D4)	102
Decamethylcyclopentasiloxane (D5)	104
Dodecamethylcyclohexasiloxane (D6)	102
Hexamethyldisiloxane	111
Octamethyltrisiloxane	126

Air Sample Volume(L): 5.04

Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	104	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k23sep10
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1869-68-50 Client Smp ID: LCSD
 Level: MED Operator: CRL
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: LCS50.spk Quant Type: ISTD
 Sublist File: silo.sub
 Method File: /chem/msdk.i/k23sep10.b/k10k0826.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	55.4	110.82	70-130
7 octamethyltrisilox	50.0	63.1	126.29	70-130
9 octa-m-cyclotetras	50.0	50.8	101.61	70-130
10 deca-m-cyclopentas	50.0	51.8	103.57	70-130
165 Dodeca-mcyclohexas	50.0	50.8	101.51	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
\$ 4 Hexamethyldisiloxa	40.0	41.4	103.53	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k23sep10.b/k092306.d
Lab Smp Id: 1869-68-50 Client Smp ID: LCSD
Inj Date : 23-SEP-2010 11:34
Operator : CRL Inst ID: msdk.i
Smp Info : ;1869-68-50;LCSD
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k23sep10.b/k10k0826.m
Meth Date : 23-Sep-2010 11:06 cleaf Quant Type: ISTD
Cal Date : 26-AUG-2010 16:33 Cal File: k082612.d
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (uG/mL)	FINAL (ug)
* 3 Benzene-d6	====	84	2.829	2.829	(1.000)	875490	40.0000	
\$ 4 Hexamethyldisiloxane-d18		162	2.870	2.870	(1.015)	1416532	41.4127	41.4
5 hexamethyldisiloxane(mm)		147	2.995	2.994	(1.059)	1768594	55.4124	55.4
* 6 Toluene-d8		98	4.992	5.002	(1.000)	751195	40.0000	
7 octamethyltrisiloxane(mdm)		221	7.497	7.496	(1.502)	1039563	63.1427	63.1
* 8 4-Bromofluorobenzene		174	8.263	8.273	(1.000)	232049	40.0000	
9 octa-m-cyclotetrasiloxane(d4)		281	8.998	9.008	(1.089)	827137	50.8075	50.8
10 deca-m-cyclopentasiloxane(d5)		267	10.498	10.508	(1.271)	289184	51.7861	51.8
165 Dodeca-mcyclohexasiloxane(d6)		341	11.844	11.844	(1.433)	238238	50.7537	50.8

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: msdk.i	Calibration Date: 23-SEP-2010
Lab File ID: k092306.d	Calibration Time: 10:41
Lab Smp Id: 1869-68-50	Client Smp ID: LCSD
Analysis Type: SV	Level: MED
Quant Type: ISTD	Sample Type: WATER
Operator: CRL	
Method File: /chem/msdk.i/k23sep10.b/k10k0826.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	969836	484918	1939672	875490	-9.73
6 Toluene-d8	827822	413911	1655644	751195	-9.26
8 4-Bromofluorobenz	243559	121780	487118	232049	-4.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
3 Benzene-d6	2.83	2.33	3.33	2.83	0.02
6 Toluene-d8	5.00	4.50	5.50	4.99	-0.20
8 4-Bromofluorobenz	8.27	7.77	8.77	8.26	-0.12

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

Data File: /chem/msdk.i/K23sep10.b/K092306.d

Date: 23-SEP-2010 11:34

Client ID: LCSD

Sample Info: #1869-68-50;LCSD

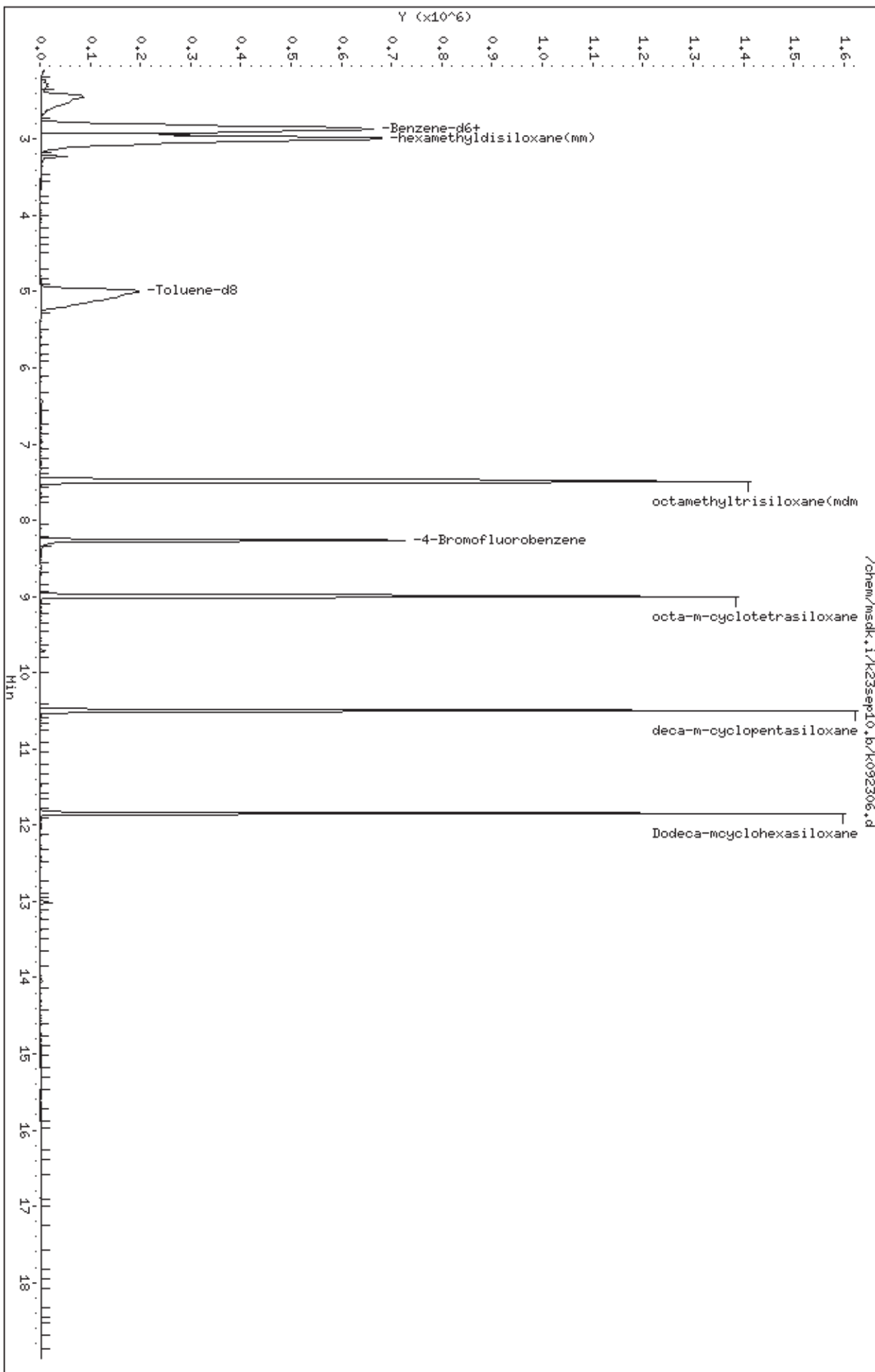
Column phase: DB-5.625

Instrument: msdk.i

Operator: CRL

Column diameter: 0.25

Page 1



Date : 23-SEP-2010 11:34

Client ID: LCSD

Instrument: msdk,i

Sample Info: ;1869-68-50;LCSD

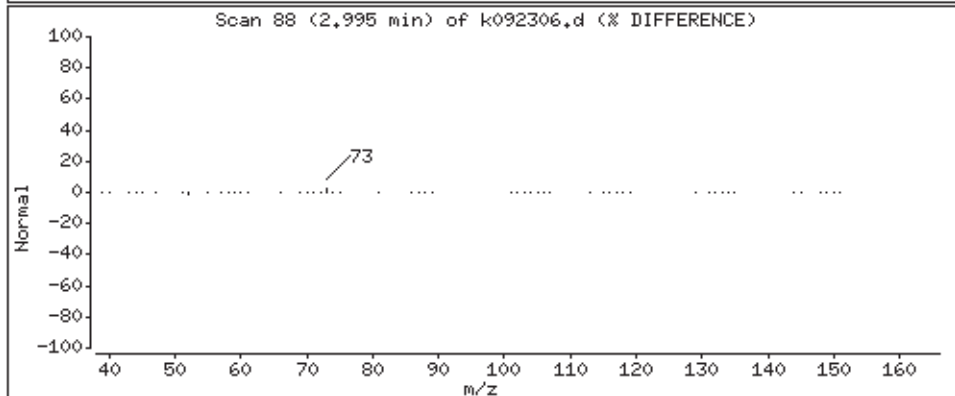
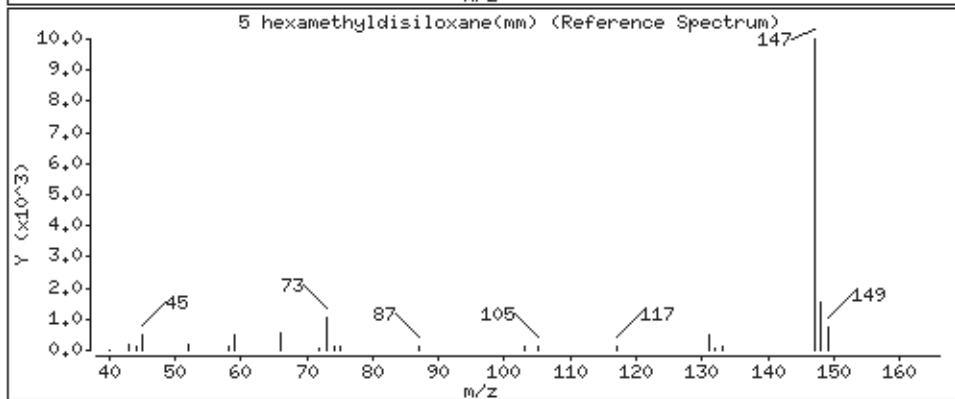
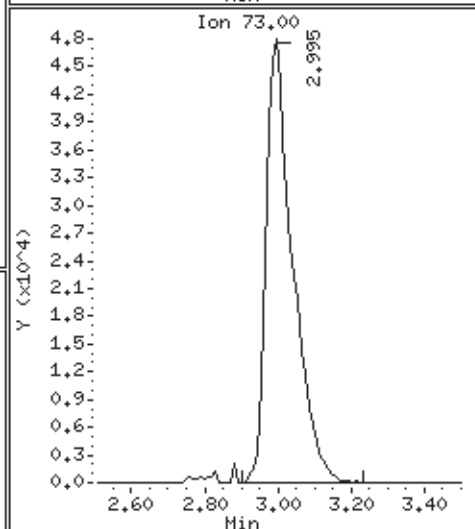
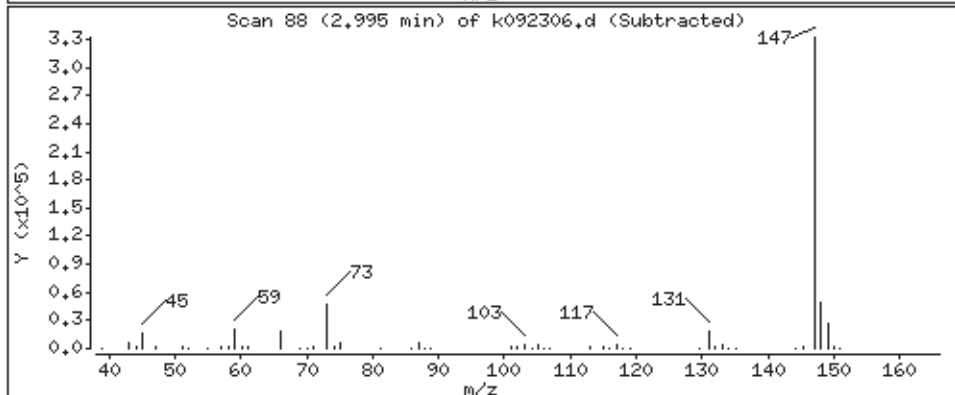
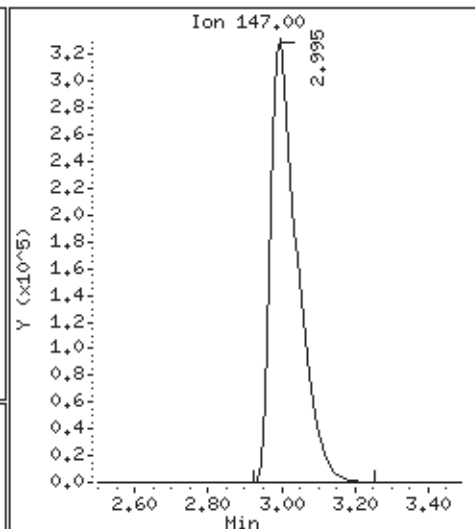
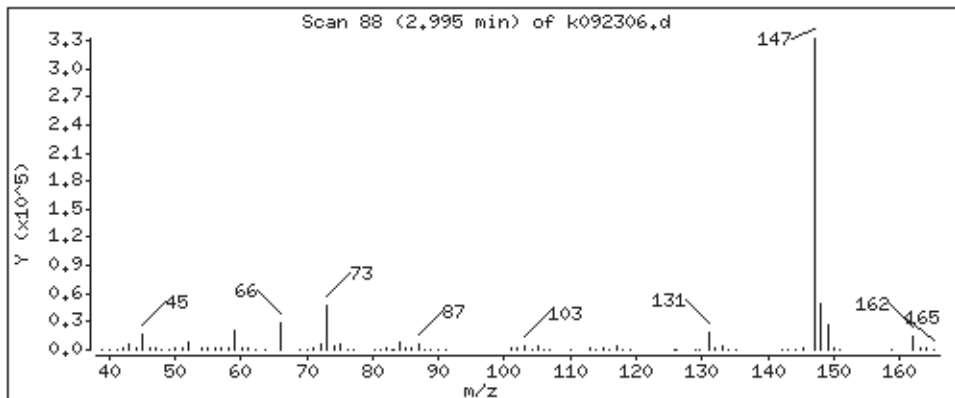
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

5 hexamethyldisiloxane(mm)

Concentration: 55.4 ug



Date : 23-SEP-2010 11:34

Client ID: LCSD

Instrument: msdk,i

Sample Info: ;1869-68-50;LCSD

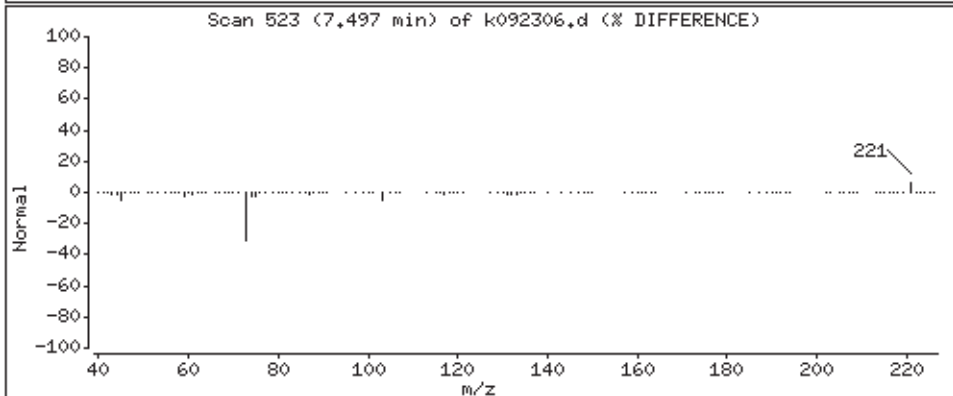
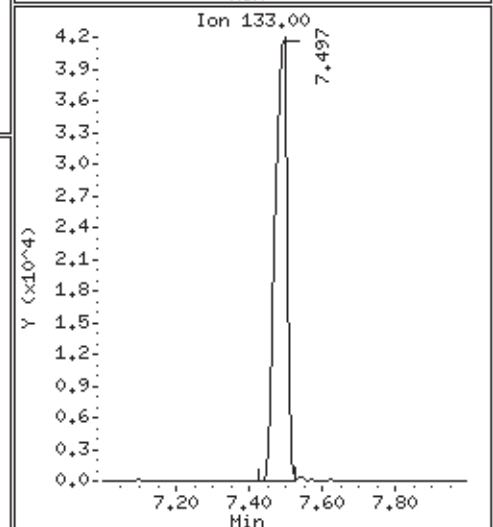
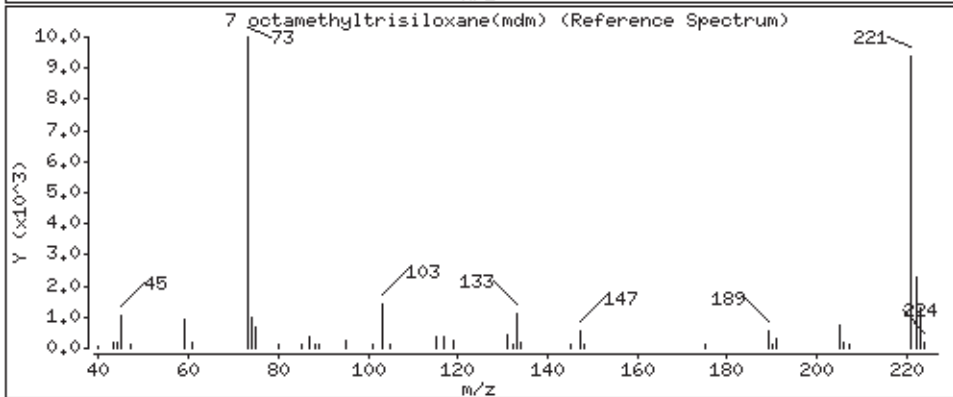
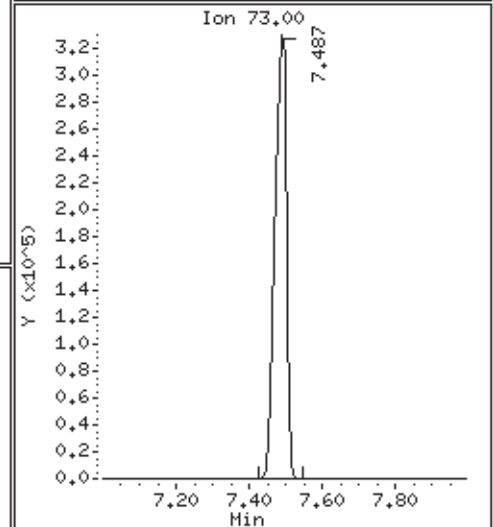
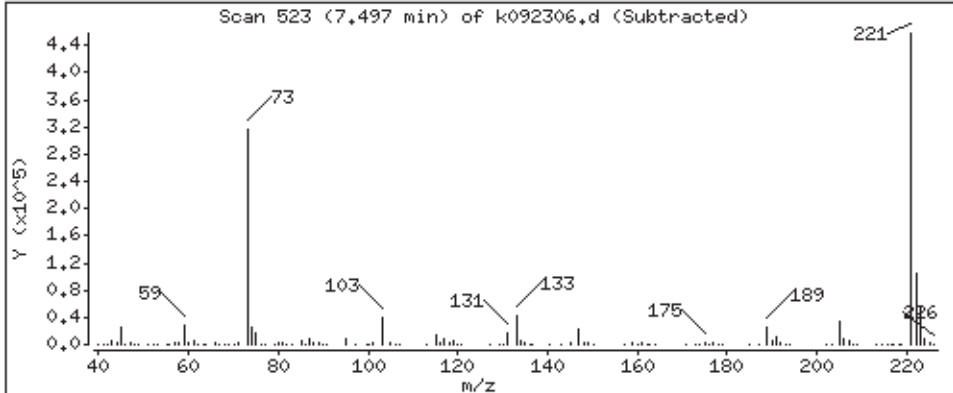
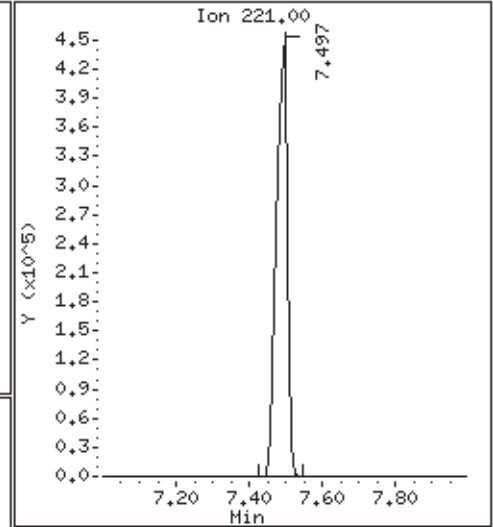
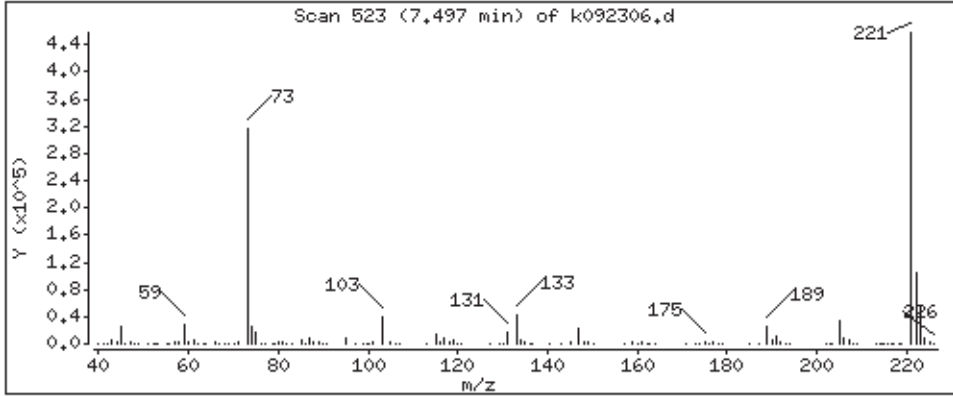
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

7 octamethyltrisiloxane(mdm)

Concentration: 63.1 ug



Date : 23-SEP-2010 11:34

Client ID: LCSD

Instrument: msdk,i

Sample Info: ;1869-68-50;LCSD

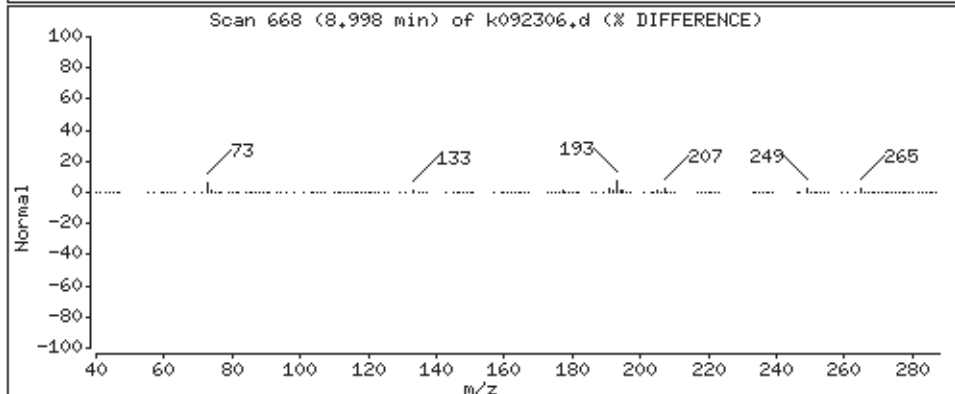
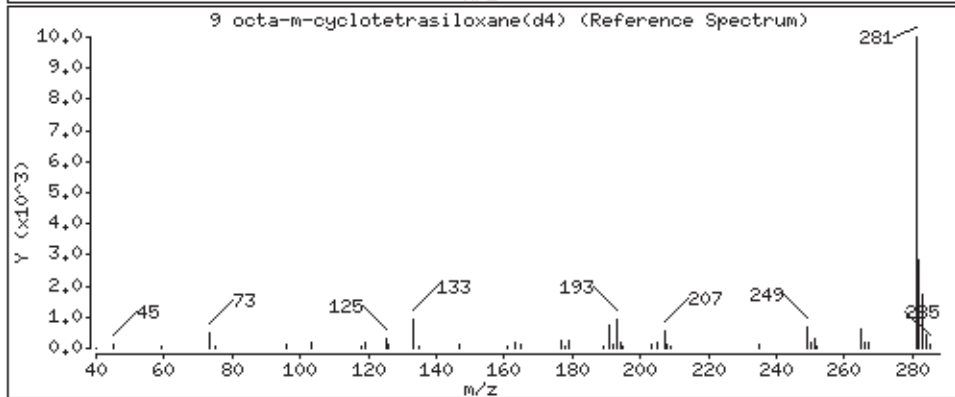
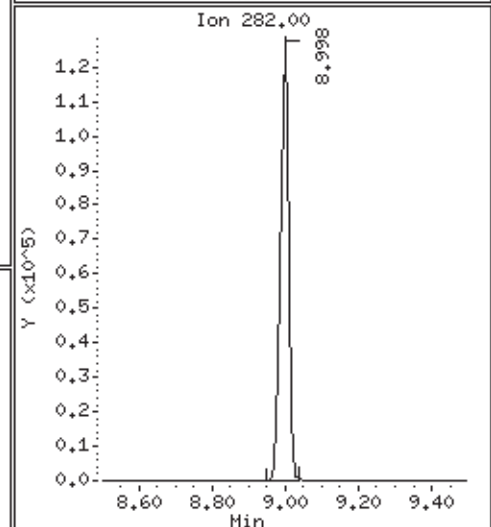
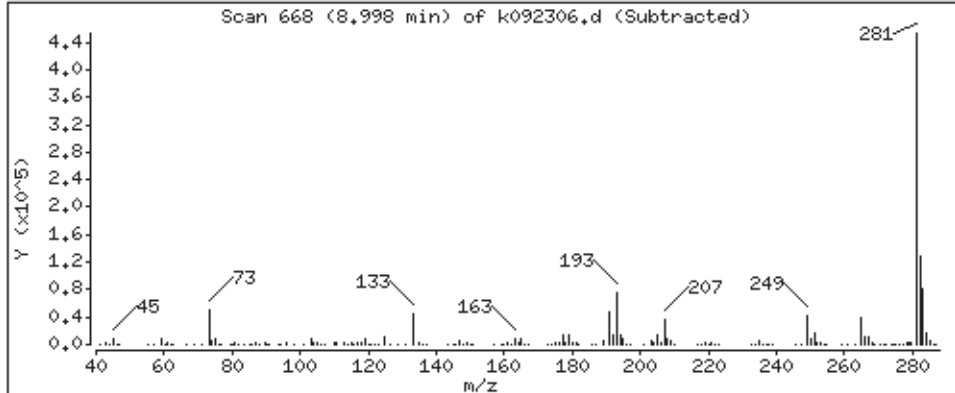
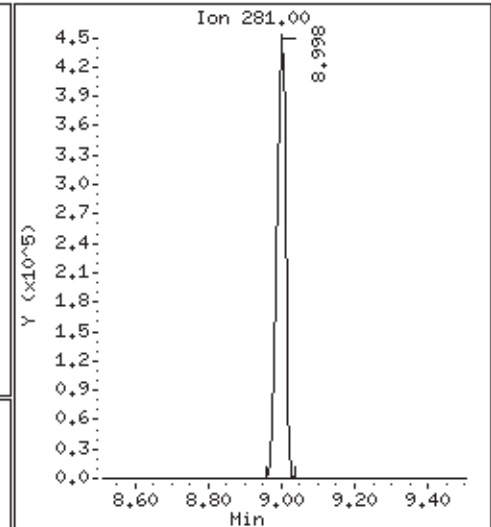
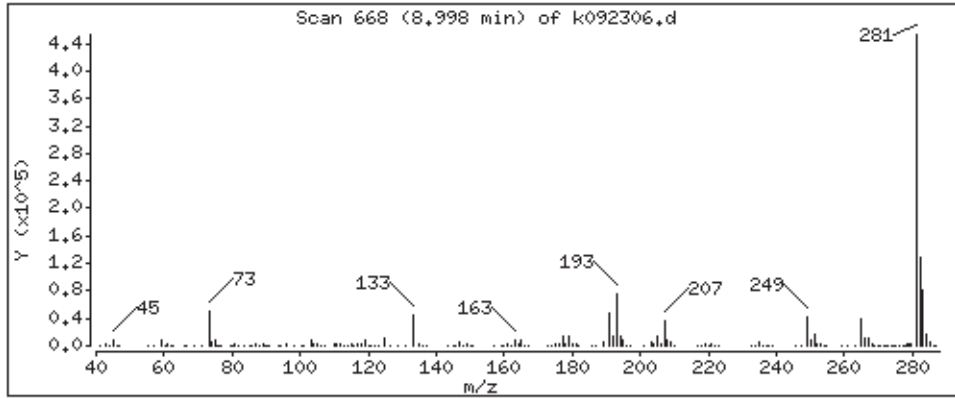
Operator: CRL

Column phase: DB-5,625

Column diameter: 0,25

9 octa-m-cyclotetrasiloxane(d4)

Concentration: 50,8 ug



Date : 23-SEP-2010 11:34

Client ID: LCSD

Instrument: msdk,i

Sample Info: ;1869-68-50;LCSD

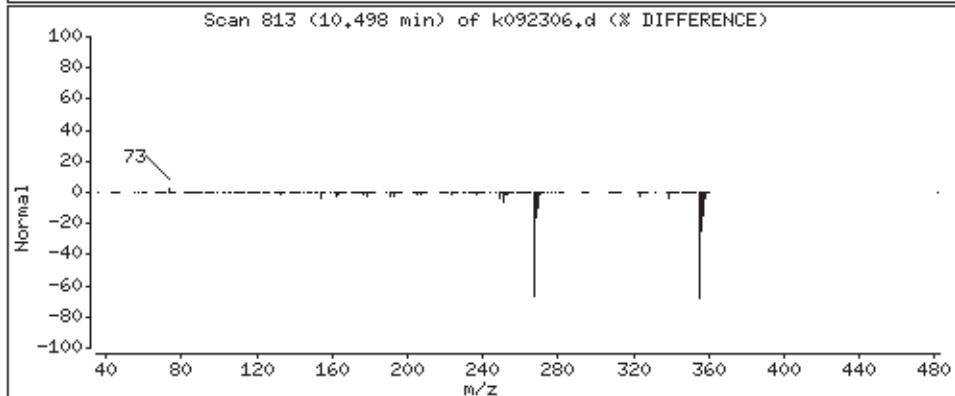
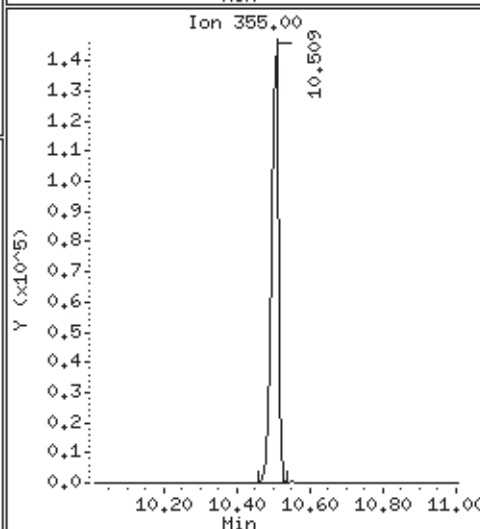
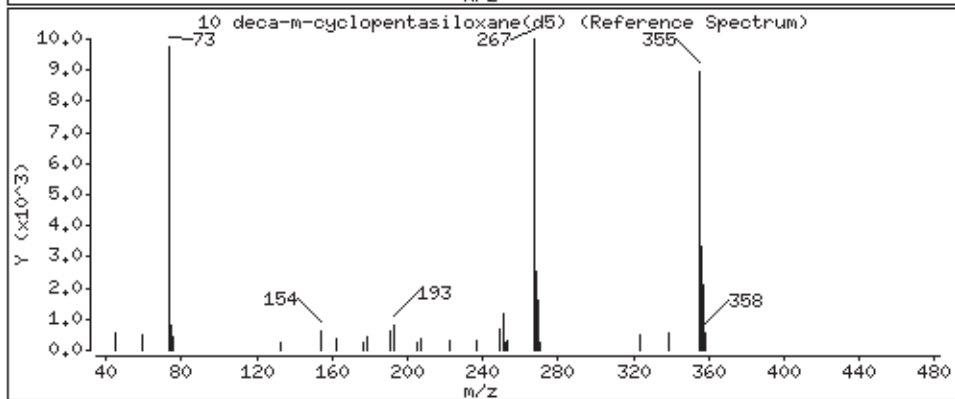
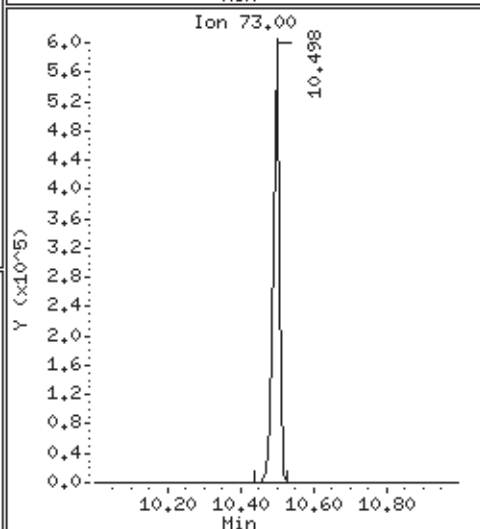
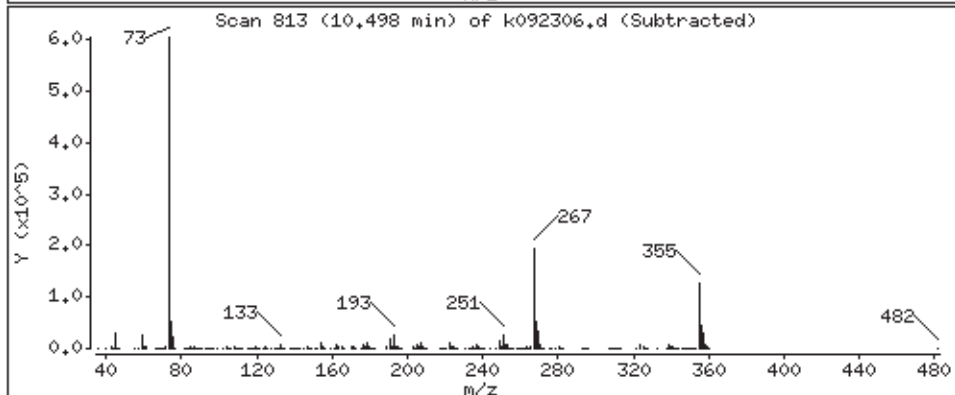
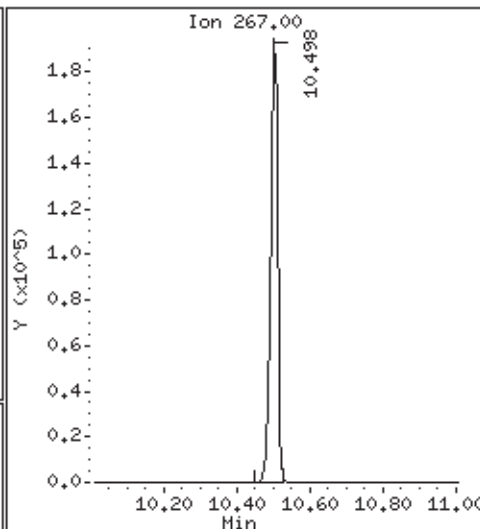
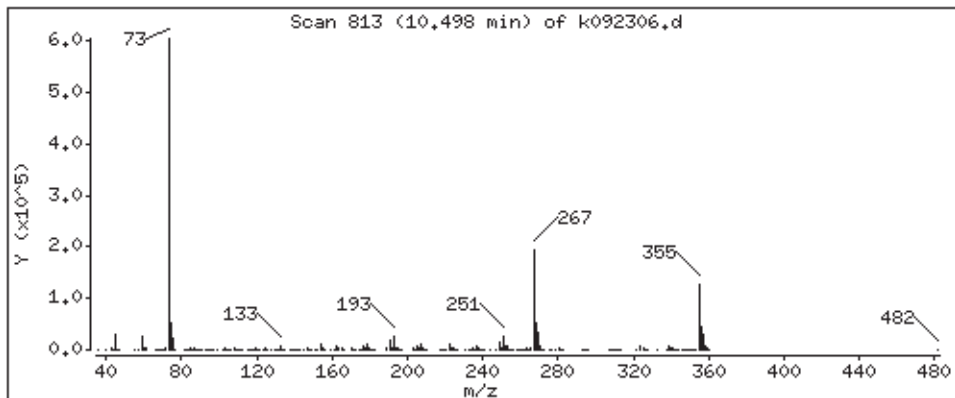
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

10 deca-m-cyclopentasiloxane(d5)

Concentration: 51.8 ug



Date : 23-SEP-2010 11:34

Client ID: LCSD

Instrument: msdk,i

Sample Info: ;1869-68-50;LCSD

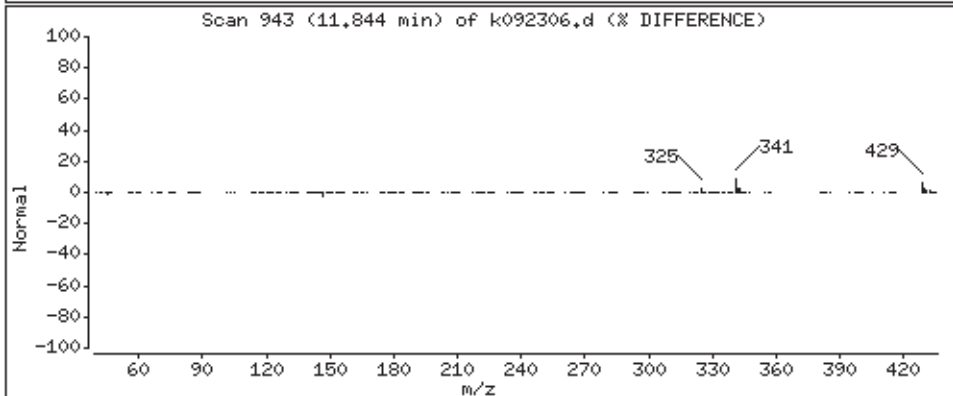
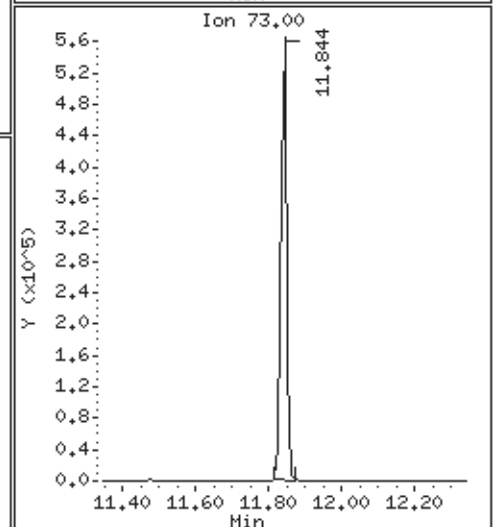
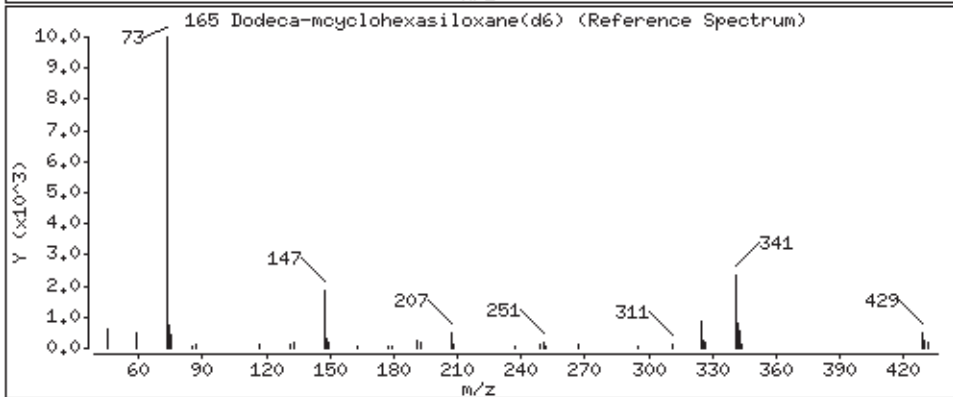
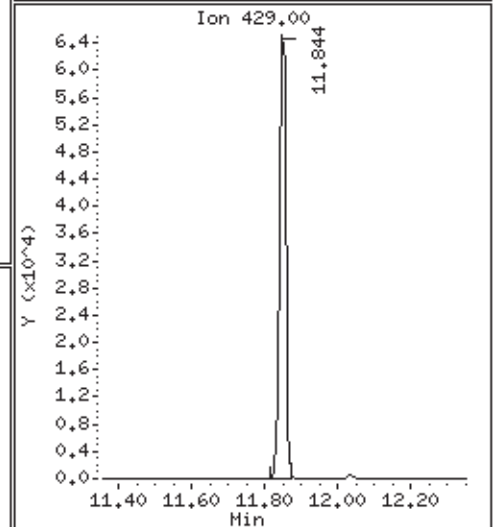
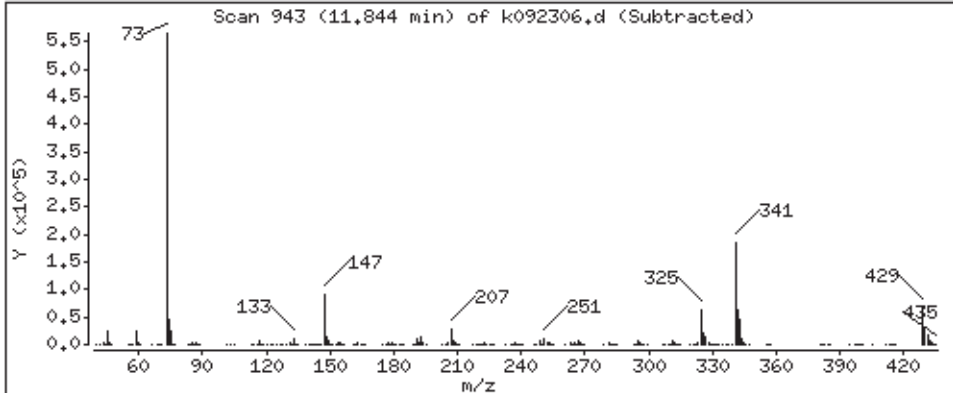
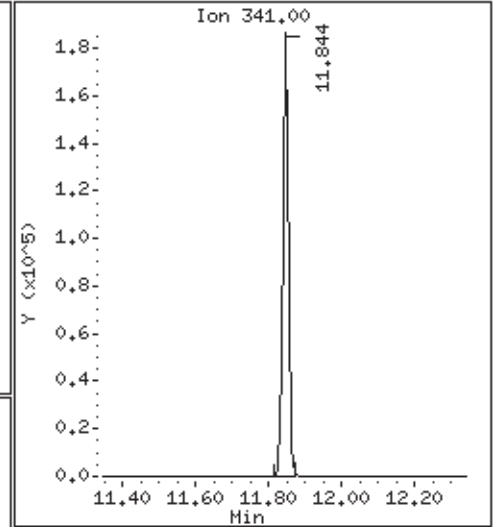
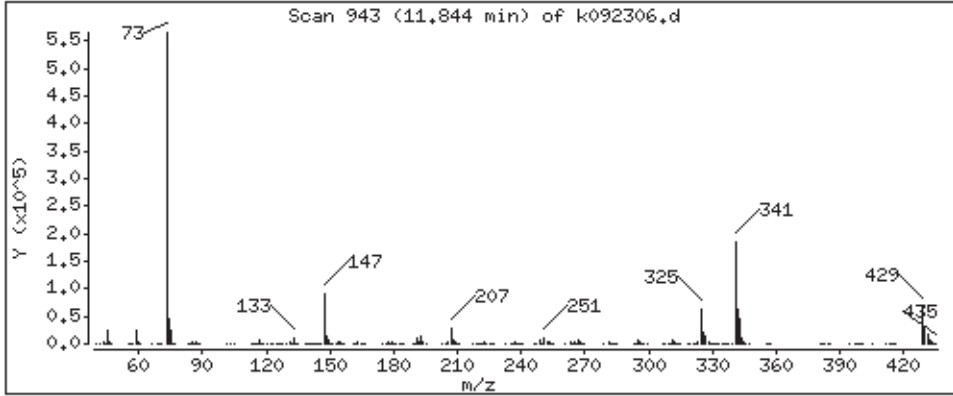
Operator: CRL

Column phase: DB-5,625

Column diameter: 0.25

165 Dodeca-mcyclohexasiloxane(d6)

Concentration: 50.8 ug



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.73
68	Less than 2.00% of mass 69	0.00 (0.00) ¹
69	Less than 99.90% of mass 198	50.91
70	Less than 2.00% of mass 69	0.20 (0.40) ¹
127	40.00 - 60.00% of mass 198	54.29
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	19.67
365	Greater than 1.00% of mass 198	2.42
441	Present, but less than mass 443	7.89
442	40.00 - 100.00% of mass 198	55.58
443	17.00 - 23.00% of mass 442	10.78 (19.46) ²

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: 1092303
DFTPP Injection Date: 9/23/10
DFTPP Injection Time: 1019

IS 1869-73-1000	Area Counts
1,4-Dichlorobenzene-d ₄ :	
Naphthalene-d ₈ :	
Acenaphthene-d ₁₀ :	
Phenanthrene-d ₁₀ :	
Chrysene-d ₁₂ :	
Perylene-d ₁₂ :	<i>Calc (25) 10</i>
Benzene-d ₆ :	969 836
Toluene-d ₈ :	<i>Calc 9/23/10</i> 87 827 822
4-Bromofluorobenzene:	243 559

This Tune Check Applies To The Following Samples, Blanks And Standards:

U s e	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓ 1092303	1869-94-50 tune	2	1.00	GR	9/23/10	1019	GR	
2	✓	4 1869-67-50 CCV	3				1041		
3	✓	5 1869-68-50 LCS	4				1110		
4	✓	6 1869-68-50 LCSD	5				1134		
5	✓	7 Mech Lab Blank	6				1158		
6	✓	8 1009788-01A	7				1222		13.3
7	✓	9 ↓ -01B	8				1246		13.6
8	✓	10 1009349A-01A	9				1310		12.5
9	✓	11 ↓ -01B	10				1333		15.0
10	✓	12 ↓ -02A	11				1357		12.5
11	✓	13 ↓ -02B	12				1421		14.7
12	✓	14 ↓ -03A	13				1445		9.9
13	✓	15 ↓ -03B	14				1509		14.8
14	✓	16 1009306-01AB	15				1533		23.7
15	✓	17 ↓ -02AB	16				1557		24.6
16	✓	18 1009460-01AB	17				1621		26.3
17	✓	19 ↓ -02AB	18				1645		27.9
18									
19									
20									<i>GR 9/23/10</i>

Calculation Check: File ID: _____ Compound: mdm Initials: GR

nG On Column = Area of Compound in Sample X Conc. Int. Standard = $(1020306) \times (40.00)$ = 56.2
 Area of Int. Standard in Sample ICAL RRF_{average} $(827822) (0.87667)$

µG/Sample = nG On Column X 1000 µL Final Vol. X D.F. = $(56.2) \times (1000) \times (1.00)$ = 56.2
 1.0 µL Inj. Vol. X 1000 nG/µG (1000)

Carry Leaf 9/23/10
Signed Date

Reported Result = 56.2

Air Toxics Ltd.

Data file : /chem/msdk.i/k26aug10.b/k082603.d
 Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
 Inj Date : 26-AUG-2010 12:45
 Operator : ss Inst ID: msdk.i
 Smp Info : ;1869-70-50;tune
 Misc Info :
 Comment :
 Method : /chem/msdk.i/k26aug10.b/dftpp.m
 Meth Date : 26-Aug-2010 12:26 Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT (REL RT)	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp							
7.536	7.836 (0.000)	198	199893			100.00- 100.00	100.00
7.536	7.836 (0.000)	51	85674			30.00- 60.00	42.86
7.536	7.836 (0.000)	68	0			0.00- 2.00	0.00
7.536	7.836 (0.000)	69	94805			0.00- 99.90	47.43
7.536	7.836 (0.000)	70	638			0.00- 2.00	0.67
7.536	7.836 (0.000)	127	101197			40.00- 60.00	50.63
7.536	7.836 (0.000)	197	0			0.00- 1.00	0.00
7.536	7.836 (0.000)	199	13855			5.00- 9.00	6.93
7.536	7.836 (0.000)	275	41430			10.00- 30.00	20.73
7.536	7.836 (0.000)	365	4093			1.00- 0.00	2.05
7.536	7.836 (0.000)	441	16527			0.01- 99.99	73.20
7.536	7.836 (0.000)	442	113989			40.00- 100.00	57.03
7.536	7.836 (0.000)	443	22579			17.00- 23.00	19.81

Date : 26-AUG-2010 12:45

Client ID: DFTPP 50ng

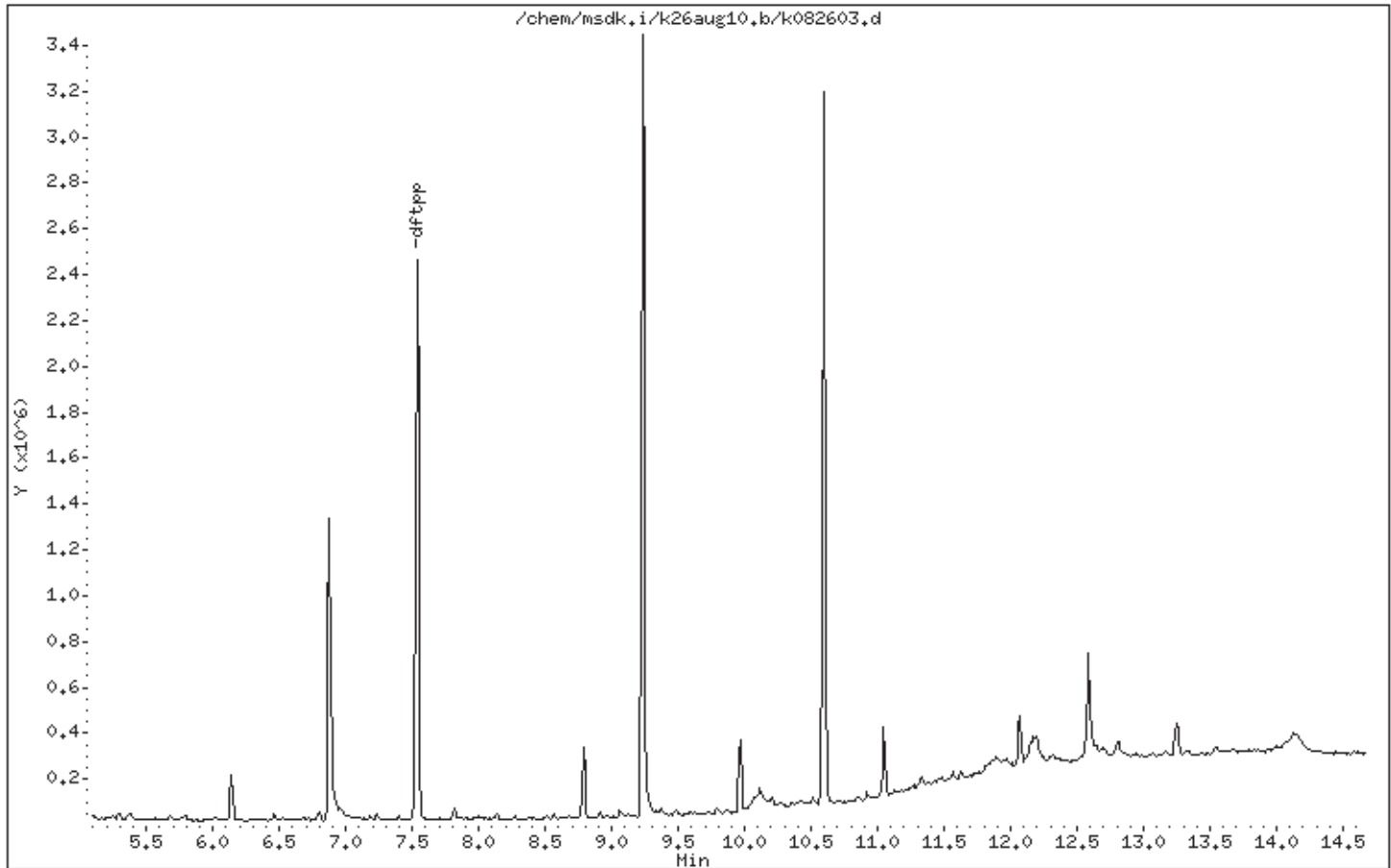
Instrument: msdk.i

Sample Info: ;1869-70-50;tune

Operator: ss

Column phase:

Column diameter: 0.25



Date : 26-AUG-2010 12:45

Client ID: DFTPP 50ng

Instrument: msdk.i

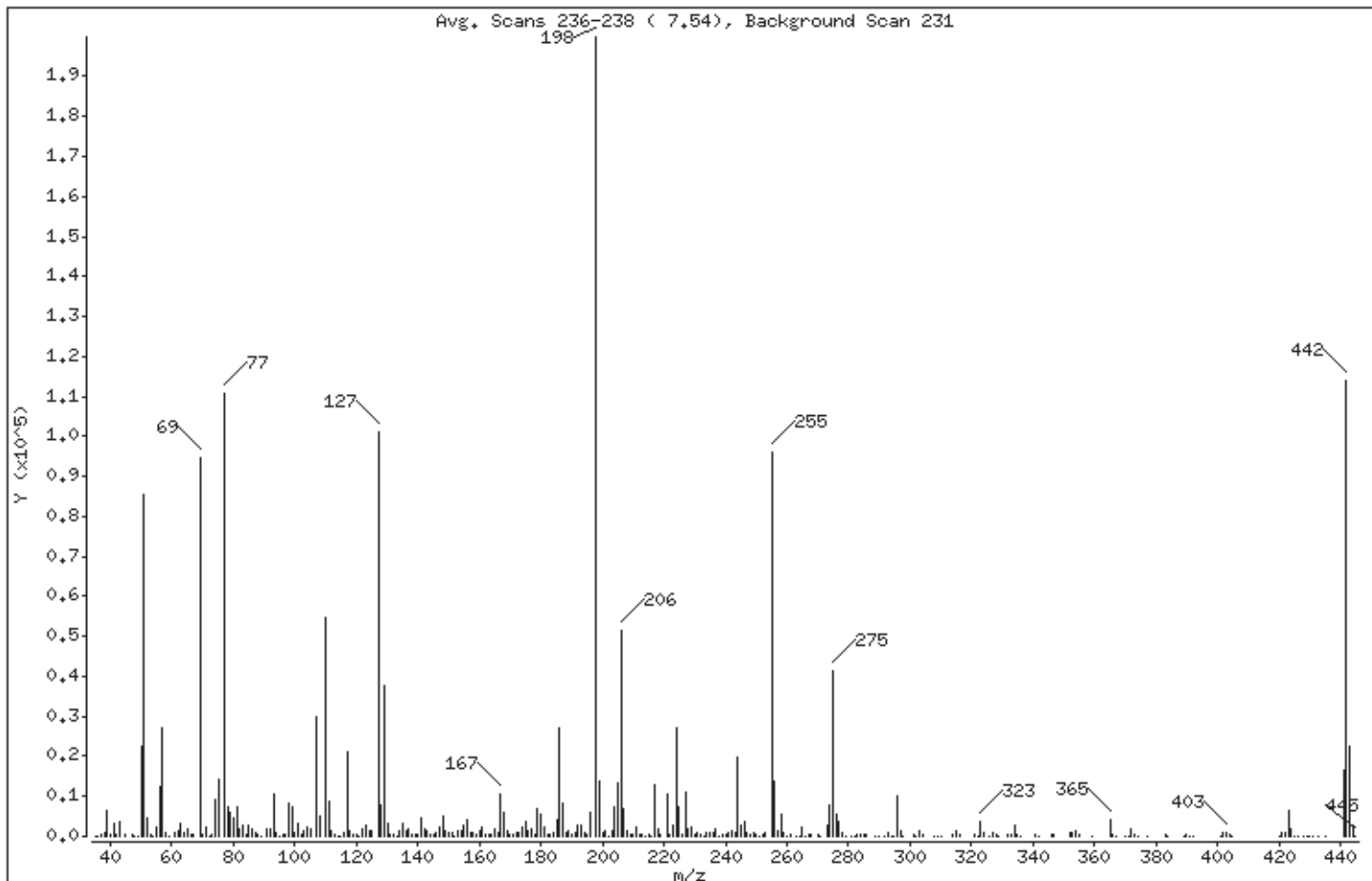
Sample Info: ;1869-70-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100,00
51	30,00 - 60,00% of mass 198	42,86
68	Less than 2,00% of mass 69	0,00 (0,00)
69	Less than 99,90% of mass 198	47,43
70	Less than 2,00% of mass 69	0,32 (0,67)
127	40,00 - 60,00% of mass 198	50,63
197	Less than 1,00% of mass 198	0,00
199	5,00 - 9,00% of mass 198	6,93
275	10,00 - 30,00% of mass 198	20,73
365	Greater than 1,00% of mass 198	2,05
441	Present, but less than mass 443	8,27
442	40,00 - 100,00% of mass 198	57,03
443	17,00 - 23,00% of mass 442	11,30 (19,81)

Date : 26-AUG-2010 12:45

Client ID: DFTPP 50ng

Instrument: msdk,i

Sample Info: ;1869-70-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

Data File: k082603.d

Spectrum: Avg. Scans 236-238 (7.54), Background Scan 231

Location of Maximum: 198.00

Number of points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35,00	95	122,00	1951	203,00	1437	290,00	122
36,00	63	123,00	2828	204,00	7287	292,00	216
37,00	548	124,00	1341	205,00	13158	293,00	835
38,00	1018	125,00	1486	206,00	51472	294,00	148
39,00	6576	127,00	101192	207,00	6703	295,00	179
40,00	234	128,00	7703	208,00	1438	296,00	9944
41,00	3303	129,00	37864	209,00	686	297,00	1485
42,00	490	130,00	3267	210,00	492	298,00	85
43,00	3600	131,00	674	211,00	2121	301,00	247
45,00	323	132,00	335	212,00	338	302,00	166
47,00	251	133,00	108	213,00	262	303,00	1205
48,00	76	134,00	1187	214,00	67	304,00	504
49,00	203	135,00	3281	215,00	517	308,00	139
50,00	22728	136,00	1205	216,00	213	309,00	149
51,00	85672	137,00	1747	217,00	12892	310,00	118
52,00	4627	138,00	538	218,00	1955	314,00	536
53,00	524	139,00	316	219,00	310	315,00	1262
54,00	212	140,00	426	221,00	10744	316,00	654
55,00	2333	141,00	4615	222,00	373	321,00	354
56,00	12351	142,00	1744	223,00	2864	322,00	97
57,00	27112	143,00	1152	224,00	27296	323,00	3820
58,00	971	144,00	299	225,00	7545	324,00	731
59,00	77	145,00	419	226,00	366	326,00	50
61,00	1080	146,00	773	227,00	11202	327,00	751
62,00	1336	147,00	2469	228,00	1819	328,00	410
63,00	3274	148,00	5249	229,00	2315	329,00	51
64,00	725	149,00	1234	230,00	235	332,00	251
65,00	1854	150,00	859	231,00	1063	333,00	489
66,00	253	151,00	1004	232,00	397	334,00	2540
67,00	320	152,00	217	233,00	164	335,00	680
69,00	94800	153,00	1510	234,00	711	336,00	87
70,00	638	154,00	1469	235,00	692	341,00	656
71,00	2240	155,00	2879	236,00	712	342,00	52
72,00	187	156,00	4058	237,00	1706	346,00	615
73,00	363	157,00	1044	238,00	212	347,00	275

Date : 26-AUG-2010 12:45

Client ID: DFTPP 50ng

Instrument: msdk.i

Sample Info: ;1869-70-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

Data File: k082603.d

Spectrum: Avg. Scans 236-238 (7.54), Background Scan 231

Location of Maximum: 198.00

Number of points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	9259	158.00	953	239.00	522	352.00	860
75.00	14170	159.00	683	240.00	503	353.00	907
77.00	110648	160.00	1522	241.00	789	354.00	1267
78.00	7548	161.00	2351	242.00	1201	355.00	257
79.00	6143	162.00	681	243.00	695	359.00	122
80.00	4756	163.00	238	244.00	19760	365.00	4093
81.00	7152	164.00	266	245.00	2593	366.00	624
82.00	1677	165.00	1726	246.00	3822	367.00	73
83.00	2545	166.00	797	247.00	883	370.00	136
84.00	292	167.00	10449	248.00	381	371.00	203
85.00	2802	168.00	6122	249.00	801	372.00	1698
86.00	2029	169.00	1258	250.00	434	373.00	507
87.00	749	170.00	362	251.00	205	374.00	52
88.00	520	171.00	630	252.00	427	377.00	54
89.00	197	172.00	818	253.00	816	383.00	536
91.00	1855	173.00	1034	255.00	96248	384.00	209
92.00	1808	174.00	2200	256.00	13796	389.00	52
93.00	10421	175.00	3692	257.00	1356	390.00	254
94.00	811	176.00	1216	258.00	5453	391.00	219
95.00	94	177.00	1740	259.00	744	392.00	160
96.00	578	178.00	254	260.00	156	401.00	58
97.00	359	179.00	6826	261.00	265	402.00	757
98.00	8248	180.00	5332	263.00	75	403.00	968
99.00	7488	181.00	2417	264.00	8	404.00	373
100.00	825	182.00	435	265.00	2351	405.00	180
101.00	3419	183.00	483	266.00	181	420.00	62
102.00	267	184.00	725	267.00	369	421.00	1057
103.00	1170	185.00	3999	268.00	261	422.00	872
104.00	2479	186.00	27240	270.00	257	423.00	6505
105.00	2057	187.00	8187	271.00	156	424.00	2057
107.00	30040	188.00	985	273.00	2626	425.00	224
108.00	4969	189.00	1525	274.00	7723	426.00	64
110.00	54536	190.00	414	275.00	41424	428.00	57
111.00	8702	191.00	837	276.00	5496	429.00	54
112.00	1189	192.00	2592	277.00	3746	430.00	57

Date : 26-AUG-2010 12:45

Client ID: DFTPP 50ng

Instrument: msdk,i

Sample Info: ;1869-70-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

Data File: k082603.d

Spectrum: Avg. Scans 236-238 (7.54), Background Scan 231

Location of Maximum: 198.00

Number of points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	445	193.00	2582	278.00	695	431.00	54
114.00	176	194.00	884	279.00	192	433.00	65
115.00	225	195.00	304	281.00	110	435.00	52
116.00	934	196.00	6140	282.00	220	441.00	16520
117.00	21256	198.00	199872	283.00	390	442.00	113984
118.00	1529	199.00	13855	284.00	428	443.00	22576
119.00	373	200.00	1064	285.00	602	444.00	2199
120.00	473	201.00	1374	286.00	255	445.00	97
121.00	199	202.00	84	289.00	50		

Air Toxics Ltd.

Data file : /chem/msdk.i/k23sep10.b/k092303.d
 Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
 Inj Date : 23-SEP-2010 10:19
 Operator : ss Inst ID: msdk.i
 Smp Info : ;1869-94-50;tune
 Misc Info :
 Comment :
 Method : /chem/msdk.i/k23sep10.b/dftpp.m
 Meth Date : 23-Sep-2010 10:00 Quant Type: ISTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT (REL RT)	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 dftpp							
7.537	7.836 (0.000)	198	116637			100.00- 100.00	100.00
7.537	7.836 (0.000)	51	53335			30.00- 60.00	45.73
7.537	7.836 (0.000)	68	0			0.00- 2.00	0.00
7.537	7.836 (0.000)	69	59381			0.00- 99.90	50.91
7.537	7.836 (0.000)	70	236			0.00- 2.00	0.40
7.537	7.836 (0.000)	127	63325			40.00- 60.00	54.29
7.537	7.836 (0.000)	197	0			0.00- 1.00	0.00
7.537	7.836 (0.000)	199	7980			5.00- 9.00	6.84
7.537	7.836 (0.000)	275	22940			10.00- 30.00	19.67
7.537	7.836 (0.000)	365	2817			1.00- 0.00	2.42
7.537	7.836 (0.000)	441	9202			0.01- 99.99	73.16
7.537	7.836 (0.000)	442	64823			40.00- 100.00	55.58
7.537	7.836 (0.000)	443	12578			17.00- 23.00	19.40

Date : 23-SEP-2010 10:19

Client ID: DFTPP 50ng

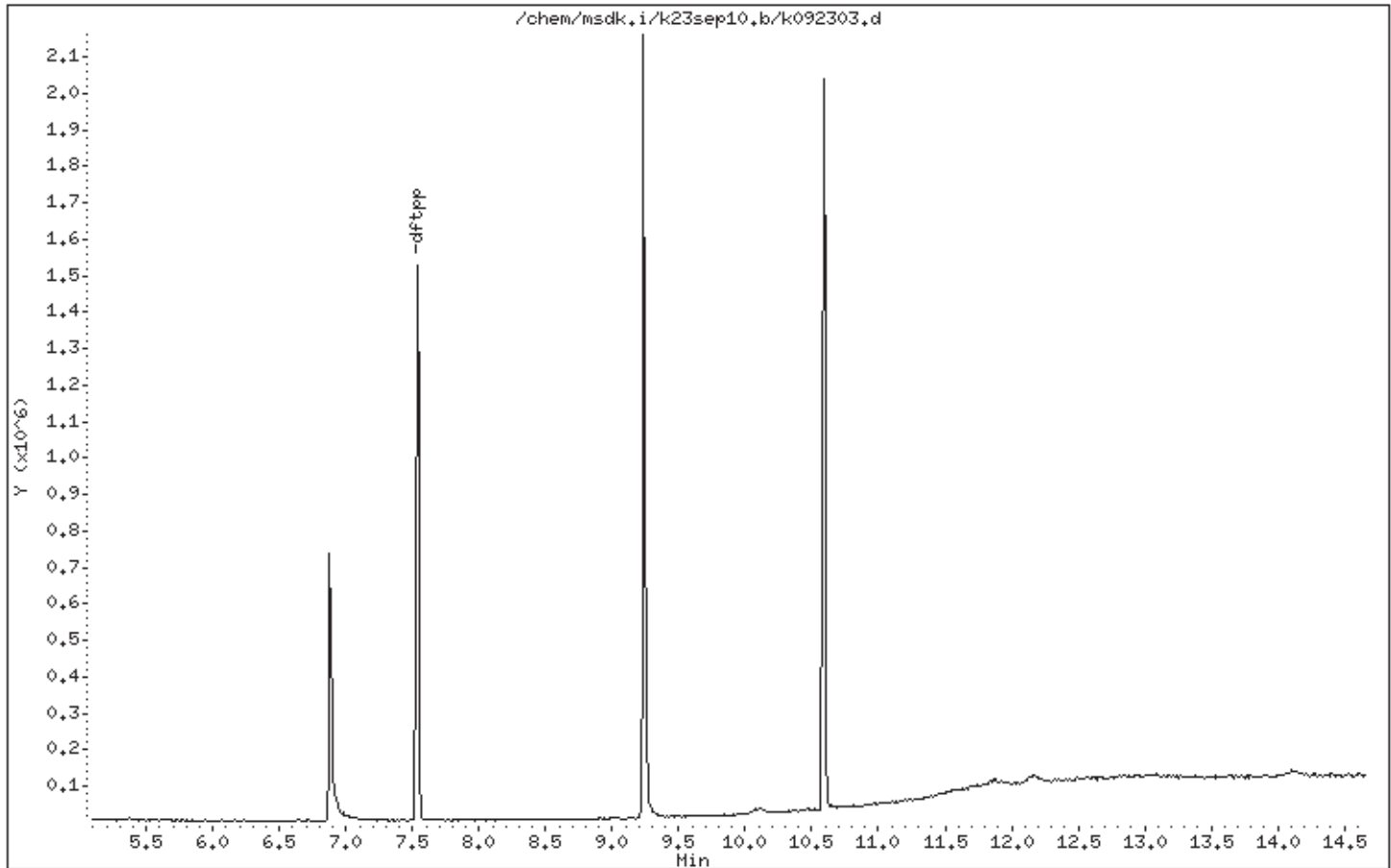
Instrument: msdk,i

Sample Info: ;1869-94-50;tune

Operator: ss

Column phase:

Column diameter: 0,25



Date : 23-SEP-2010 10:19

Client ID: DFTPP 50ng

Instrument: msdk.i

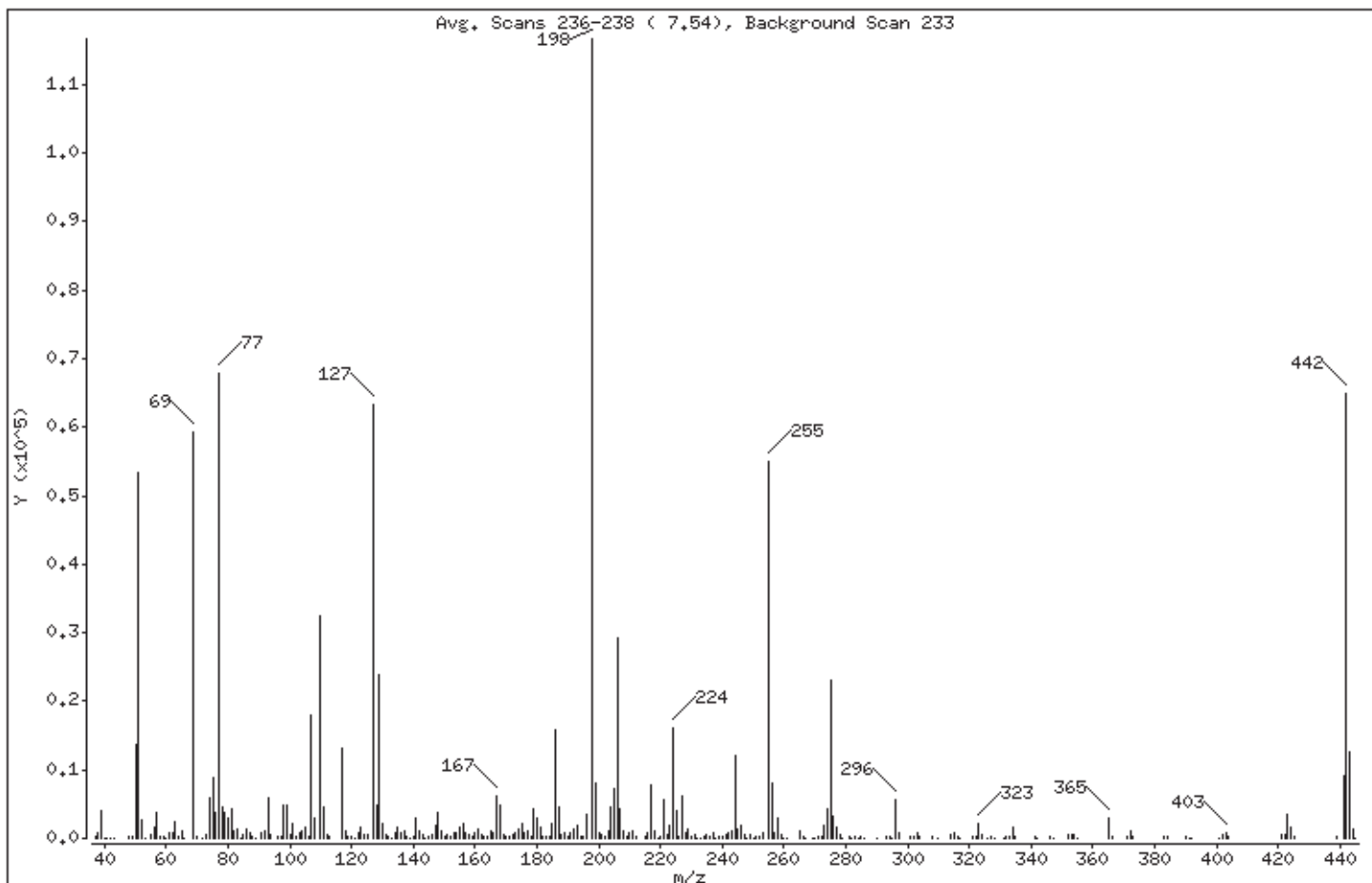
Sample Info: ;1869-94-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100,00
51	30,00 - 60,00% of mass 198	45,73
68	Less than 2,00% of mass 69	0,00 (0,00)
69	Less than 99,90% of mass 198	50,91
70	Less than 2,00% of mass 69	0,20 (0,40)
127	40,00 - 60,00% of mass 198	54,29
197	Less than 1,00% of mass 198	0,00
199	5,00 - 9,00% of mass 198	6,84
275	10,00 - 30,00% of mass 198	19,67
365	Greater than 1,00% of mass 198	2,42
441	Present, but less than mass 443	7,89
442	40,00 - 100,00% of mass 198	55,58
443	17,00 - 23,00% of mass 442	10,78 (19,40)

Date : 23-SEP-2010 10:19

Client ID: DFTPP 50ng

Instrument: msdk.i

Sample Info: ;1869-94-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

Data File: k092303.d

Spectrum: Avg. Scans 236-238 (7.54), Background Scan 233

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37,00	353	123,00	1675	196,00	3571	276,00	3308
38,00	914	124,00	650	198,00	116632	277,00	1665
39,00	3945	125,00	560	199,00	7980	278,00	471
40,00	116	127,00	63320	200,00	718	279,00	68
41,00	58	128,00	4802	201,00	493	281,00	175
42,00	59	129,00	23888	202,00	297	282,00	124
43,00	61	130,00	2228	203,00	959	283,00	269
48,00	154	131,00	421	204,00	4516	284,00	95
49,00	317	132,00	263	205,00	7219	285,00	381
50,00	13591	133,00	2	206,00	29344	286,00	59
51,00	53328	134,00	676	207,00	4267	290,00	61
52,00	2552	135,00	1680	208,00	1027	293,00	378
53,00	55	136,00	880	209,00	233	294,00	172
55,00	433	137,00	1174	210,00	688	295,00	106
56,00	1531	138,00	152	211,00	1163	296,00	5534
57,00	3840	139,00	108	212,00	250	297,00	829
58,00	239	140,00	288	215,00	338	301,00	135
59,00	214	141,00	2900	216,00	810	302,00	191
60,00	54	142,00	961	217,00	7680	303,00	858
61,00	837	143,00	627	218,00	1149	304,00	200
62,00	811	144,00	121	219,00	128	308,00	158
63,00	2437	145,00	170	220,00	180	310,00	113
64,00	343	146,00	624	221,00	5705	314,00	435
65,00	1139	147,00	1801	222,00	448	315,00	754
66,00	68	148,00	3624	223,00	1980	316,00	339
69,00	59376	149,00	1006	224,00	16009	317,00	88
70,00	236	150,00	259	225,00	4059	321,00	213
72,00	66	151,00	490	226,00	323	322,00	152
73,00	503	152,00	394	227,00	6042	323,00	2094
74,00	5783	153,00	813	228,00	850	324,00	433
75,00	8776	154,00	686	229,00	1410	326,00	118
76,00	3734	155,00	1516	230,00	300	327,00	327
77,00	67840	156,00	2217	231,00	612	328,00	123
78,00	4648	157,00	864	232,00	72	331,00	52
79,00	3760	158,00	411	233,00	50	332,00	170

Date : 23-SEP-2010 10:19

Client ID: DFTPP 50ng

Instrument: msdk.i

Sample Info: ;1869-94-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

Data File: k092303.d

Spectrum: Avg. Scans 236-238 (7.54), Background Scan 233

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	3053	159.00	390	234.00	336	333.00	206
81.00	4238	160.00	843	235.00	524	334.00	1645
82.00	970	161.00	1378	236.00	315	335.00	377
83.00	1247	162.00	451	237.00	753	341.00	273
84.00	7	163.00	211	238.00	60	342.00	61
85.00	525	164.00	176	239.00	301	346.00	308
86.00	1318	165.00	1086	240.00	270	347.00	90
87.00	680	166.00	800	241.00	440	352.00	527
88.00	176	167.00	6133	242.00	823	353.00	430
89.00	74	168.00	4728	243.00	1036	354.00	642
91.00	933	169.00	656	244.00	11989	355.00	72
92.00	1190	170.00	169	245.00	1370	365.00	2817
93.00	5796	171.00	359	246.00	1940	366.00	368
94.00	540	172.00	604	247.00	441	371.00	161
96.00	178	173.00	749	248.00	68	372.00	1015
97.00	253	174.00	1365	249.00	571	373.00	288
98.00	4912	175.00	2271	250.00	127	383.00	301
99.00	4933	176.00	801	251.00	192	384.00	139
100.00	420	177.00	977	252.00	358	390.00	161
101.00	2215	178.00	361	253.00	873	391.00	55
102.00	150	179.00	4358	255.00	55024	392.00	86
103.00	716	180.00	3076	256.00	7996	401.00	65
104.00	1169	181.00	1500	257.00	785	402.00	406
105.00	1602	182.00	261	258.00	2911	403.00	724
106.00	167	183.00	145	259.00	462	404.00	143
107.00	18008	184.00	384	260.00	91	421.00	488
108.00	2964	185.00	2112	261.00	84	422.00	525
110.00	32488	186.00	15759	265.00	1153	423.00	3481
111.00	4692	187.00	4483	266.00	210	424.00	1600
112.00	558	188.00	511	267.00	52	425.00	211
113.00	211	189.00	846	269.00	51	439.00	158
117.00	13090	190.00	189	270.00	121	441.00	9202
118.00	1163	191.00	846	271.00	176	442.00	64816
119.00	227	192.00	1471	272.00	160	443.00	12578
120.00	184	193.00	1782	273.00	1838	444.00	1240

Date : 23-SEP-2010 10:19

Client ID: DFTPP 50ng

Instrument: msdk.i

Sample Info: ;1869-94-50;tune

Operator: ss

Column phase:

Column diameter: 0.25

Data File: k092303.d

Spectrum: Avg. Scans 236-238 (7.54), Background Scan 233

Location of Maximum: 198.00

Number of points: 287

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	118	194.00	183	274.00	4169	445.00	103
122.00	918	195.00	262	275.00	22936		

Shipping/ Receiving Documents

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Discrepancies below.

In order to expedite analysis and reporting, please review the attached information for
For corrections ca **Karen Lopez at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

SAMPLE RECEIPT SUMMARY

WORKORDER 1009288

Client	Phone	Date Promised: 09/29/10
Ms. Keri Whetter	425-519-8750	Date Completed: 9/27/10
Exponent		Date Received: 9/15/10
15375 SE 30th Place	Fax	PO#: S29-C083-2-2010
Suite 250	425-643-9827	Project#: 0907194.000.0601 Heglar-Kronquist
Bellevue, WA 98007		Total \$: \$ 225.00
Sales Rep: JJM		Logged By: BSW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01AB	EB-091410 (Front/Back)	Modified Siloxanes	9/14/2010	\$225.00
02A	Lab Blank	Modified Siloxanes	NA	\$0.00
03A	LCS	Modified Siloxanes	NA	\$0.00
03AA	LCSD	Modified Siloxanes	NA	\$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Keri Whetter
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Analysis Code: Other GC

TERMS: NET 30

Reporting Method: Siloxanes-GC/MS

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k23sep10.b/k092309.d
Lab Smp Id: 1009288-01B
Inj Date : 23-SEP-2010 12:46
Operator : CRL
Smp Info : ;1009288-01B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k23sep10.b/k10k0826.m
Meth Date : 23-Sep-2010 11:06 cleaf
Cal Date : 26-AUG-2010 16:33
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: eeyore
Inst ID: msdk.i
Quant Type: ISTD
Cal File: k082612.d
Compound Sublist: silo.sub

Concentration Formula: $Amt * DF * v * CpndVariable$
v 13.60000 final volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug)
* 3 Benzene-d6	84	2.821	2.829	(1.000)	967726	40.0000	
\$ 4 Hexamethyldisiloxane-d18	162	2.862	2.870	(1.015)	1500267	39.6803	39.7
5 hexamethyldisiloxane (mm)	147		Compound Not Detected.				
* 6 Toluene-d8	98	4.994	5.002	(1.000)	834480	40.0000	
7 octamethyltrisiloxane (mdm)	221		Compound Not Detected.				
* 8 4-Bromofluorobenzene	174	8.265	8.273	(1.000)	232770	40.0000	
9 octa-m-cyclotetrasiloxane (d4)	281		Compound Not Detected.				
10 deca-m-cyclopentasiloxane (d5)	267		Compound Not Detected.				
165 Dodeca-m-cyclohexasiloxane (d6)	341		Compound Not Detected.				

Anal 9/27/10

Compound List

Siloxanes-GC/MS

CAS Number	Compound	Detection Limit	Type
556-67-2	Octamethylcyclotetrasiloxane (D4)	1.0	
541-02-6	Decamethylcyclopentasiloxane (D5)	1.0	
9999-9999-204	Hexamethyl disiloxane -d18		
107-46-0	Hexamethyldisiloxane	1.0	
107-51-7	Octamethyltrisiloxane	1.0	
540-97-6	Dodecamethylcyclohexasiloxane (D6)	2.0	

DATA REVIEW CHECKLIST

Work Order #: 1009288

A ₁	A ₂	W	T	R	Q	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The final report has the correct reporting list, special units, and header info.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non-Standard sublist printed/verified, LOQ and LOD verified
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample Discrepancy Report (SDR) is completed
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Corrective Action issued - # _____
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unusual circumstances have been documented in the notes section below
						LUMEN validation report present and initialed
						CIRCLE (YES <input type="radio"/> NO <input checked="" type="radio"/>)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lab Blank, CCV, LCS and DUP met QC criteria
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold time is met for all samples
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate data qualifier flags are applied
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manual integrations for samples and QC are properly documented
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples analyzed within the project or method specific clock
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Retention times have been verified
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate ICAL(s) included, %RSD Recalculation
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	At least one result per sample is verified against the target quant sheets/raw data
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Correct amount of sample analyzed (i.e. sample not over-diluted)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TICs resemble reference spectra
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TICs between duplicate samples are consistent
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Data for multiple analyses of sample(s) has been evaluated for comparability of results
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special units for all samples in the final report are correctly calculated
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manually entered results checked (i.e. TPH/NMOC)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chain of Custody scanned correctly
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify sample id's vs. chain of custody
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date MDL(s) performed per instrument(s) <u>7/1/10</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples pressurized w/ appropriate gas (N ₂ or He) <input type="checkbox"/> Other (i.e. Tedlar bag, cartridge, <u>sorbent</u>)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final pressure consistent with canister size (6L vs. 1L)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify receipt pressures
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify canister ID #'s
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final PDF report reviewed for correctness

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)
 A/R: 1) Dup = LCS/LCSD 2) Sample volume was measured with graduated cylinder
 3) Total impinger volume = 13.3 + 13.6 = 26.9 mL 4) report in µg/m³
 5) Client provided the total air volume of 5.04 L 6) Analyze separately, report together

T/O: _____

A ₁ /A ₂ (Analytical Review/Date)	W/T (Write-up/Tech Review/Date)	R* (Report Review/Date)	Q (QA Review/Date)
A ₁ : _____	W: <u>Cary Leaf 9/27/10</u>	R: _____	_____
A ₂ : _____	T: _____	_____	_____

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
 Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.
 * Report Review is completed for DoD & Client Specific projects only.

Not Applicable

June 22, 2010

Analytical Report for Service Request No: K1005244

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglar - Kronquist/0907194.000.0601

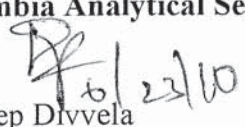
Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on May 21, 2010. For your reference, these analyses have been assigned our service request number K1005244.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/ln

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent
Project: Heglar-Kronquist
Sample Matrix: Misc. Solid

Service Request No.: K1005244
Date Received: 05/21/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Four solid samples were received for analysis at Columbia Analytical Services on 05/21/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Chloride by EPA Method 9056M:

The control criteria for matrix spike recovery of Chloride for sample D-4-16 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Fluoride by EPA Method 9056M:

The matrix spike recovery of Fluoride for sample D-4-16 was outside control criteria because of suspected matrix interference. A matrix spike duplicate was also analyzed, but produced similar results. The results of the original analysis were reported. No further corrective action was appropriate.

The spike recovery of Fluoride for Laboratory Control Sample (LCS) was outside the lower control criterion. The error associated with reduced recovery indicated a potential low bias. The LCS was within manufacturers control criteria of 24.5-81.9mg/Kg. The data was flagged to indicate the problem.

Nitrate and Nitrite as Nitrogen by EPA Method 9056M:

The detection limit was elevated for Nitrate and Nitrite as Nitrogen in samples D-3-21, D-4-16 and D-4-36. The chromatogram indicated the presence of non-target background components. The sample contained elevated levels of chloride. The matrix interference prevented adequate resolution of the target compounds at the normal limit. The results were flagged to indicate the matrix interference.

Sulfate by EPA Method 9056M:

The Relative Percent Difference (RPD) for the replicate analysis of Sulfate in sample D-4-16 was outside the normal CAS control limits. The variability in the results was attributed to the heterogeneous character of the sample. The sample contained relatively large amounts of miscellaneous matrix., which complicated the homogenization process. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____ Date 06/23/10

Total Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Aluminum for the Batch QC3 and sample D-1-13 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

The control criteria for matrix spike recovery of Copper and Zinc for the Batch QC2 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Hydrocarbon Identification Screen by Method NWTPH-HCID

No anomalies associated with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

No anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

Initial Calibration Exceptions:

The primary evaluation criterion was exceeded for Acetone, Bromoform, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene and 1,2,3-Trichlorobenzene in Initial Calibration (ICAL) ID 9404. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.5%. The calibration met the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

Lab Control Sample Exceptions:

The advisory criterion was exceeded for trans-1,2-Dichloroethene in Laboratory Control Sample (LCS) KWG1004900-3. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

Matrix Spike Recovery Exceptions:

The matrix spike recovery of 2-Hexanone for sample D-4-16 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Semivolatile Organic Compounds by EPA Method 8270C

No anomalies associated with the analysis of these samples were observed.

Subcontract Laboratory Results

Per Melissa Kelvin's (Exponent) request Total Nitrogen and TKN analysis were subcontracted to AmTest Laboratories and Ortho-Phosphate to Edge Analytical Laboratories.

Approved by _____ Date 06/23/10

Chain of Custody

PROJECT NAME: Heglar - King Street
 PROJECT NUMBER: 0903194.000.0001
 PROJECT MANAGER: Melissa Kivan
 COMPANY/ADDRESS: 15375 SE 30th Pl Suite 250
 CITY/STATE/ZIP: Bellevue, WA 98007
 E-MAIL ADDRESS: mkivan@expent.com
 PHONE # (425) 519-8334 FAX # (425) 519-8399
 SAMPLER'S SIGNATURE: Keri Whetter

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
D-1-13	5/18/10	1025	S	R	Semivolatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input checked="" type="checkbox"/> 8270LL <input type="checkbox"/>	
D-3-21	5/19/10	1030	S	R	Volatile Organics 624 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/>	
D-4-16	5/19/10	1245	S	R	Hydrocarbons (*see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/>	
D-4-36	5/19/10	1335	S	R	Fuel Fingerprint (FIQ) <input checked="" type="checkbox"/> Oil & Grease/TRPH <input type="checkbox"/> 1664 HEM <input type="checkbox"/> 1664 SGT <input type="checkbox"/>	
					PCB's <input checked="" type="checkbox"/> Congeners <input type="checkbox"/>	
					Aroclors <input checked="" type="checkbox"/> 8082	
					Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/>	
					Chlorophenolics - 8151M Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/>	
					PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/>	
					Metals (Total or Dissolved) (See list below)	
					Total Cyanide <input checked="" type="checkbox"/>	
					Hex-Chrom <input type="checkbox"/>	
					pH, Cond, <u>Cl</u> , <u>SO4</u> , <u>PO4</u> , <u>NO2</u> , <u>NO3</u>	
					<u>NO2</u> , BOD, TSS, TDS (circle)	
					<u>NH3-N</u> , COD, Total-P, TKN, TOC, DOC (circle) <u>NO2+NO3</u>	
					TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	
					Al, K, Na Phosphate as orthophosphate	
					Cl, F, NO2, NO3 % moisture	

REPORT REQUIREMENTS:
 I. Routine Report: Method Blank, Surrogate, as required
 II. Report Dup., MS, MSD as required
 III. Data Validation Report (includes all raw data)
 IV. CLP Deliverable Report
 V. EDD

INVOICE INFORMATION:
 P.O. # _____
 Bill To: Same
as above

TURNAROUND REQUIREMENTS:
 24 hr. _____ 48 hr. _____
 Standard (10-15 working days)
 Provide FAX Results _____

SPECIAL INSTRUCTIONS/COMMENTS:
 Sample Shipment contains USDA regulated soil samples (check box)

RELINQUISHED BY: Keri Whetter 5/21/10 9:31 AM EXPONENT
 RECEIVED BY: Madison Swann 5/21/10 9:35 AM EXPONENT
 RELINQUISHED BY: Madison Swann 5/21/10 12:18 PM EXPONENT
 RECEIVED BY: Tom Jones 5/21/10 1:00 PM EXPONENT

CHAIN OF CUSTODY

SR#: K1005244

PROJECT NAME: Heglar - Kromquist
 PROJECT NUMBER: 0707194.000.0601
 PROJECT MANAGER: Melissa Klevan
 COMPANY ADDRESS: 15375 SE 30th Pl
Suite 250
 CITY/STATE/ZIP: Bellevue, WA 98007
 E-MAIL ADDRESS: M.Klevan@expment.com
 PHONE: (425) 519-8324 FAX: (425) 519-8399
 SAMPLER'S SIGNATURE: [Signature]

SAMPLE ID	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
D-1-13	5/18/10	1025			2	
D-3-21	5/19/10	1030			2	
D-4-16	5/19/10	1245			2	
D-4-36	5/19/10	1335			2	

REPORT REQUIREMENTS:
 I. Routine Report: Method Blank, Surrogate, as required
 II. Report Dup., MS, MSD as required
 III. Data Validation Report (includes all raw data)
 IV. CLP Deliverable Report
 V. EDO

INVOICE INFORMATION:
 P.O. #
 Bill To: Sam
as above

TURNAROUND REQUIREMENTS:
 24 hr. 48 hr.
 5 Day Standard (10-15 working days)
 Provide FAX Results

SPECIAL INSTRUCTIONS/COMMENTS:
Analysis for D-1-13 + D-4-16 switched per modifications shown above on 5-21-10 [initials]

INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

Circle which metals are to be analyzed:
 Total Metals: Al As Sb B Ba B Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

NUMBER OF CONTAINERS:
 Semivolatile Organics by GC/MS 625 8270 8270LL
 Volatile Organics 624 8260
 Hydrocarbons ("see below") Gas Diesel Oil
 Fuel Fingerprint (FIQ)
 NW-HCID Screen
 Oil & Grease/TRPH 1664 HEM 1664 SGT
 PCB's 282 Congeners
 Aroclors
 Pesticides/Herbicides 608 8081A 8141A 8151A
 Chlorophenolics - 8151M Tetra PCP
 PAHS 8310 SIM
 Metals (Total or Dissolved) (See list below)
 Total Cyanide
 pH, Cond. Hex-Chrom
 NO₂ BOD, TSS, TDS (circle)
 NH₄-N COD, Total P, TKN, TOC, DOC (circle) NO₂+NO₃
 TOX 9020 AOX 1650 506
Al, K, Na phosphate as orthophosphate
Cl, F, NO₂, NO₃ % moisture

RELINQUISHED BY: [Signature] Date/Time: 5/21/10
 RECEIVED BY: [Signature] Date/Time: 5/21/10
 BELINQUISHED BY: [Signature] Date/Time: 5/21/10
 KCR, Whetter, Expment

Container Supply Number: 17709

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC AD

Client / Project: Expend Service Request K10 05244

Received: 5-21-10 Opened: 5-21-10 By: DW

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
0.6	1.9	263					

7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Total Solids

Analytical Results

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Misc. solid

Service Request: K1005244

Total Solids

Prep Method: NONE
 Analysis Method: 160.3M
 Test Notes:

Units: PERCENT
 Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
D-1-13	K1005244-001	05/18/2010	05/21/2010	05/25/2010	66.9	
D-3-21	K1005244-002	05/19/2010	05/21/2010	05/25/2010	89.0	
D-4-16	K1005244-003	05/19/2010	05/21/2010	05/25/2010	90.7	
D-4-36	K1005244-004	05/19/2010	05/21/2010	05/25/2010	95.4	

QA/QC Report

Client: Exponent
 Project: Heglar - Kronquist/0907194.000.0601
 Sample Matrix: Misc. solid

Service Request: K1005244
 Date Collected: 05/19/2010
 Date Received: 05/21/2010
 Date Analyzed: 05/25/2010

Duplicate Sample Summary
 Total Solids

Prep Method: NONE
 Analysis Method: 160.3M
 Test Notes:

Units: PERCENT
 Basis: Wet

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
D-4-16	K1005244-003	90.7	90.5	90.6	<1	


COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

202123

Group ID:	KWG1004839	Reviewed By:	<u>SAW</u>
Analyst:	SARWOOD	Date Reviewed:	<u>5/20/10</u>
Date Acquired:	05/25/2010 07:46	Oven TempStart:	105 DEG C
Date Completed:	05/26/2010 06:56	Oven TempEnd:	105 DEG C

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K1005207-001	10-05264	SLUDGE	1.31g	10.30g	2.89g	17.6		
2	K1005228-001	SO-56394-052010-CB-223	SOIL	1.32g	15.91g	14.78g	92.3		
3	K1005228-002	SO-56394-052010-CB-224	SOIL	1.30g	11.37g	10.95g	95.8		
4	K1005228-003	SO-56394-052010-CB-225	SOIL	1.31g	14.34g	13.75g	95.5		
5	K1005228-004	SO-56394-052010-CB-226	SOIL	1.32g	12.88g	12.44g	96.2		
6	K1005228-005	SO-56394-052010-CB-227	SOIL	1.31g	12.42g	12.03g	96.5		
7	K1005228-006	SO-56394-052010-CB-228	SOIL	1.30g	11.80g	10.95g	91.9		
8	K1005228-007	SO-56394-052010-CB-229	SOIL	1.31g	12.75g	12.29g	96.0		
9	K1005228-008	SO-56394-052010-CB-230	SOIL	1.32g	16.82g	15.89g	94.0		
10	K1005228-009	SO-56394-052010-CB-231	SOIL	1.32g	12.94g	12.43g	95.6		
11	K1005228-010	SO-56394-052010-CB-232	SOIL	1.30g	26.91g	26.24g	97.4		
12	K1005228-011	SO-56394-052010-CB-233	SOIL	1.31g	13.09g	12.58g	95.7		
13	K1005228-012	SO-56394-052010-CB-234	SOIL	1.32g	15.21g	14.19g	92.7		
14	K1005228-013	SO-56394-052010-CB-235	SOIL	1.31g	12.33g	11.14g	89.2		
15	K1005228-014	SO-56394-052010-CB-236	SOIL	1.31g	29.17g	28.62g	98.0		
16	K1005228-015	SO-56394-052010-CB-237	SOIL	1.30g	18.79g	18.19g	96.6		
17	K1005228-016	SO-56394-052010-CB-238	SOIL	1.30g	10.89g	10.08g	91.6		
18	K1005228-017	SO-56394-052010-CB-239	SOIL	1.32g	19.04g	18.25g	95.5		
19	K1005228-018	SO-56394-052010-CB-240	SOIL	1.31g	19.78g	19.28g	97.3		
20	K1005228-019	SO-56394-052010-CB-241	SOIL	1.30g	12.44g	12.00g	96.1		
21	K1005228-020	SO-56394-052010-CB-242	SOIL	1.32g	24.04g	22.34g	92.5		
22	K1005228-021	SO-56394-052010-CB-243	SOIL	1.32g	12.74g	12.24g	95.6		
23	K1005228-022	SO-56394-052010-CB-244	SOIL	1.32g	19.51g	18.71g	95.6		
24	K1005234-001	SO-56394-052010-DR-1108	SOIL	1.32g	13.95g	13.00g	92.5		
25	K1005234-002	SO-56394-052010-DR-1109	SOIL	1.31g	12.90g	10.81g	82.0		
26	K1005234-003	SO-56394-052010-DR-1110	SOIL	1.32g	14.89g	14.34g	95.9		

Group ID: KWG1004839
 Analyst: Sarwood
 Date Acquired: 05/25/2010 07:46
 Date Completed: 05/26/2010 06:56
 Oven TempStart: 105 DEG C
 Oven TempEnd: 105 DEG C
 Reviewed By: 
 Date Reviewed: 5/26/10

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
27	K1005234-004	SO-56394-052010-DR-1111	SOIL	1.31g	21.14g	20.20g	95.3		
28	K1005234-005	SO-56394-052010-DR-1112	SOIL	1.32g	12.77g	12.31g	96.0		
29	K1005234-006	SO-56394-052010-DR-1113	SOIL	1.30g	12.28g	11.52g	93.1		
30	K1005234-007	SO-56394-052010-DR-1114	SOIL	1.32g	14.17g	12.96g	90.6		
31	K1005234-008	SO-56394-052010-DR-1115	SOIL	1.33g	18.35g	17.50g	95.0		
32	K1005234-009	SO-56394-052010-DR-1116	SOIL	1.33g	12.32g	10.91g	87.2		
33	K1005234-010	SO-56394-052010-DR-1117	SOIL	1.33g	29.93g	27.99g	93.2		
34	K1005234-011	SO-56394-052010-DR-1118	SOIL	1.31g	14.13g	12.56g	87.8		
35	K1005234-012	SO-56394-052010-DR-1119	SOIL	1.32g	21.66g	20.35g	93.6		
36	K1005234-013	SO-56394-052010-DR-1120	SOIL	1.31g	19.37g	17.39g	89.0		
37	K1005234-014	SO-56394-052010-DR-1121	SOIL	1.33g	15.27g	14.14g	91.9		
38	K1005234-015	SO-56394-052010-DR-1122	SOIL	1.33g	15.36g	14.05g	90.7		
39	K1005234-016	SO-56394-052010-DR-1123	SOIL	1.31g	15.44g	14.33g	92.1		
40	K1005234-017	SO-56394-052010-DR-1124	SOIL	1.31g	14.19g	13.51g	94.7		
41	K1005234-018	SO-56394-052010-DR-1125	SOIL	1.31g	16.59g	15.80g	94.8		
42	K1005234-019	SO-56394-052010-DR-1126	SOIL	1.31g	13.49g	11.80g	86.1		
43	K1005234-020	SO-56394-052010-DR-1127	SOIL	1.31g	10.27g	8.32g	78.2		
44	K1005237-001	SJNE-007-CR1A	SEDIMENT	1.32g	16.32g	13.54g	81.5		
45	K1005237-002	SJNE-007-CR1B	SEDIMENT	1.32g	16.41g	12.03g	71.0		
46	K1005237-003	SJNE-007-CR1C	SEDIMENT	1.31g	15.68g	12.35g	76.8		
47	K1005237-004	SJNE-007-CR1D	SEDIMENT	1.32g	16.59g	11.36g	65.7		
48	K1005237-005	SJNE-007-CR1E	SEDIMENT	1.30g	15.23g	10.36g	65.0		
49	K1005237-006	SJNE-007-CR1F	SEDIMENT	1.30g	19.53g	16.25g	82.0		
50	K1005237-007	SJNE-007-CR1G	SEDIMENT	1.31g	15.80g	9.43g	56.0		
51	K1005237-008	SJNE-007-CR1H	SEDIMENT	1.30g	15.07g	8.69g	53.7		
52	K1005237-009	SJNE-007-CR1I	SEDIMENT	1.31g	16.06g	9.43g	55.1		
53	K1005237-010	SJNE-008-CR1A	SEDIMENT	1.31g	19.49g	12.42g	61.1		
54	K1005237-011	SJNE-008-CR1B	SEDIMENT	1.32g	14.42g	10.67g	71.4		
55	K1005237-012	SJNE-008-CR1C	SEDIMENT	1.31g	12.23g	9.19g	72.2		
56	K1005237-013	SJNE-008-CR1D	SEDIMENT	1.31g	13.90g	10.39g	72.1		
57	K1005237-014	SJNE-041-CR1A	SEDIMENT	1.31g	14.16g	9.08g	60.5		

Group ID: KWG1004839

Analyst: Sarwood

Date Acquired: 05/25/2010 07:46

Date Completed: 05/26/2010 06:56


Oven TempStart: 105 DEG C

Oven TempEnd: 105 DEG C

Reviewed By: 

Date Reviewed: 5/26/10


#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
58	K1005237-015	SJNE-041-CR1B	SEDIMENT	1.32g	12.42g	9.67g	75.2		
59	K1005237-016	SJNE-041-CR1C	SEDIMENT	1.31g	11.13g	8.00g	68.1		
60	K1005237-017	SJNE-041-CR1D	SEDIMENT	1.31g	15.38g	12.52g	79.7		
61	K1005237-018	SJNE-041-CR1E	SEDIMENT	1.32g	14.61g	9.82g	64.0		
62	K1005237-019	SJNE-041-CR1F	SEDIMENT	1.32g	17.50g	14.08g	78.9		
63	K1005237-020	SJNE-012-CR1A	SEDIMENT	1.30g	12.11g	9.05g	71.7		
64	K1005237-021	SJNE-012-CR1B	SEDIMENT	1.31g	12.46g	7.27g	53.5		
65	K1005237-022	SJNE-012-CR1C	SEDIMENT	1.30g	13.09g	10.22g	75.7		
66	K1005237-023	SJNE-026-CR1A	SEDIMENT	1.31g	11.50g	5.58g	41.9		
67	K1005237-024	SJNE-026-CR1B	SEDIMENT	1.31g	11.76g	6.08g	45.6		
68	K1005237-025	SJNE-026-CR1C	SEDIMENT	1.30g	12.45g	7.51g	55.7		
69	K1005237-026	SJNE-026-CR1D	SEDIMENT	1.31g	14.99g	7.99g	48.8		
70	K1005237-027	SJNE-026-CR1E	SEDIMENT	1.32g	11.62g	6.15g	46.9		
71	K1005237-028	SJNE-026-CR1F	SEDIMENT	1.32g	15.84g	10.96g	66.4		
72	K1005237-029	SJNE-026-CR1G	SEDIMENT	1.31g	14.43g	11.08g	74.5		
73	K1005244-001	D-1-13	MISC. SOLID	1.30g	9.59g	6.85g	66.9		
74	K1005244-002	D-3-21	MISC. SOLID	1.31g	22.64g	20.29g	89.0		
75	K1005244-003	D-4-16	MISC. SOLID	1.32g	13.81g	12.65g	90.7		
76	K1005244-004	D-4-36	MISC. SOLID	1.31g	10.98g	10.54g	95.4		
77	K1005263-001	SJVS001-GR1	SEDIMENT	1.31g	14.18g	6.29g	38.7		
78	K1005263-002	SJVS002-GR1	SEDIMENT	1.32g	17.14g	9.90g	54.2		
79	K1005263-003	SJVS003-GR1	SEDIMENT	1.31g	16.66g	9.95g	56.3		
80	K1005263-004	SJVS004-GR1	SEDIMENT	1.31g	13.65g	7.82g	52.8		
81	K1005263-005	SJVS006-GR1	SEDIMENT	1.30g	19.25g	9.58g	46.1		
82	K1005263-006	SJVS007-GR1	SEDIMENT	1.31g	18.78g	13.43g	69.4		
83	K1005263-007	SJVS008-GR1	SEDIMENT	1.31g	12.37g	7.10g	52.4		
84	K1005263-008	SJVS014-GR1	SEDIMENT	1.32g	13.76g	6.31g	40.1		
85	K1005263-009	SJVS012-GR1	SEDIMENT	1.31g	19.18g	12.58g	63.1		

Group ID: KWG1004839
Analyst: Sarwood
Date Acquired: 05/25/2010 07:46
Date Completed: 05/26/2010 06:56
Oven TempStart: 105 DEG C
Oven TempEnd: 105 DEG C
Reviewed By: 
Date Reviewed: 5/26/10

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
86	K1005263-010	SIVS009-GR1	SEDIMENT	1.32g	11.59g	6.39g	49.4		
87	K1005263-011	SIVS005-GR1	SEDIMENT	1.30g	13.61g	8.52g	58.7		
88	K1005268-001	EL-6	SEDIMENT	1.31g	13.45g	6.57g	43.3		
89	K1005268-002	ECL-3	SEDIMENT	1.31g	19.97g	13.70g	66.4		
90	K1005268-003	CL-6	SEDIMENT	1.32g	15.53g	9.04g	54.3		
91	K1005268-004	CL-1	SEDIMENT	1.32g	13.86g	8.83g	59.9		
92	K1005268-005	WCL-5	SEDIMENT	1.30g	20.17g	15.81g	76.9		
93	K1005268-006	WCL-8	SEDIMENT	1.31g	24.05g	18.50g	75.6		
94	K1005268-007	WL-2	SEDIMENT	1.31g	17.43g	12.92g	72.0		
95	K1005268-008	WL-1	SEDIMENT	1.31g	20.30g	15.94g	77.0		
96	K1005268-009	WL-3	SEDIMENT	1.31g	16.56g	13.50g	79.9		
97	K1005268-010	WCL-1	SEDIMENT	1.30g	17.63g	14.43g	80.4		
98	K1005280-001	PTPC20100521-LKBrickW	MISC. SOLID	1.31g	8.45g	7.87g	91.9		
99	K1005280-002	PTPC20100521-LKBrickR	MISC. SOLID	1.31g	12.12g	11.59g	95.1		
100	K1005280-003	PTPC20100521-PrimaryClar	MISC. SOLID	1.31g	18.21g	12.23g	64.6		
101	K1005280-004	PTPC20100520-Painted Wood	MISC. SOLID	1.30g	11.44g	7.36g	59.8		
102	K1005281-001	SJNE 023-CR1A	SEDIMENT	1.32g	16.49g	10.40g	59.9		
103	K1005281-002	SJNE 023-CR1B	SEDIMENT	1.32g	12.55g	9.55g	73.3		
104	K1005281-003	SJNE 023-CR1C	SEDIMENT	1.30g	15.52g	12.14g	76.2		
105	K1005281-004	SJNE 023-CR1D	SEDIMENT	1.33g	13.55g	10.34g	73.7		
106	K1005281-005	SJNE 023-CR1E	SEDIMENT	1.30g	11.25g	7.59g	63.2		
107	K1005281-006	SJNE 023-CR1F	SEDIMENT	1.30g	17.20g	12.07g	67.7		
108	K1005281-007	SJNE 023-CR1G	SEDIMENT	1.30g	11.41g	7.97g	66.0		
109	K1005281-008	SJNE 023-CR1H	SEDIMENT	1.32g	11.46g	7.49g	60.8		
110	K1005281-009	SJNE 033-CR1A	SEDIMENT	1.30g	13.28g	5.75g	37.1		
111	K1005281-010	SJNE 033-CR1B	SEDIMENT	1.32g	10.88g	5.42g	42.9		
112	K1005281-011	SJNE 033-CR1C	SEDIMENT	1.31g	11.72g	5.86g	43.7		
113	K1005281-012	SJNE 033-CR1D	SEDIMENT	1.30g	13.21g	6.38g	42.7		

Group ID: KWG1004839
Analyst: Sarwood
Date Acquired: 05/25/2010 07:46
Date Completed: 05/26/2010 06:56
Oven Temp Start: 105 DEG C
Oven Temp End: 105 DEG C
Reviewed By: 
Date Reviewed: 5/26/10

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
114	K1005281-013	SINE 033-CR1E	SEDIMENT	1.30g	11.80g	5.81g	43.0		
115	K1005281-014	SINE 033-CR1F	SEDIMENT	1.30g	15.25g	7.75g	46.2		
116	K1005281-015	SINE 033-CR1G	SEDIMENT	1.31g	10.64g	5.89g	49.1		
117	K1005281-016	SINE 033-CR1H	SEDIMENT	1.31g	11.44g	6.14g	47.7		
118	K1005281-017	SINE 033-CR1I	SEDIMENT	1.31g	11.06g	6.41g	52.3		
119	K1005281-018	SINE 033-CR1J	SEDIMENT	1.32g	10.84g	6.44g	53.8		
120	K1005281-019	SINE 050-CR1A	SEDIMENT	1.31g	12.56g	4.94g	32.3		
121	K1005281-020	SINE 050-CR1B	SEDIMENT	1.31g	12.50g	5.03g	33.2		
122	K1005284-001	SIYS 010-GR1	SEDIMENT	1.32g	16.04g	9.82g	57.7		
123	K1005284-002	SIYS 018-GR1	SEDIMENT	1.30g	17.18g	12.99g	73.6		
124	K1005284-003	SIYS 013-GR1	SEDIMENT	1.32g	12.99g	8.50g	61.5		
125	K1005284-004	SIYS 015-GR1	SEDIMENT	1.31g	15.09g	11.17g	71.6		
126	K1005284-005	SIYS 011-GR1	SEDIMENT	1.31g	15.81g	11.00g	66.8		
127	K1005284-006	SIYS 016-GR1	SEDIMENT	1.30g	14.48g	7.63g	48.0		
128	K1005284-007	SIYS 017-GR1	SEDIMENT	1.31g	16.86g	12.80g	73.9		
129	KWG1004839-10	Duplicate Client Sample	MISC. SOLID	1.31g	13.72g	12.54g	90.5	K1005244-003	
130	KWG1004839-13	Duplicate Client Sample	SEDIMENT	1.32g	12.86g	6.08g	41.2	K1005263-001	
131	KWG1004839-14	Duplicate Client Sample	SEDIMENT	1.32g	13.05g	8.64g	62.4	K1005263-011	
132	KWG1004839-15	Duplicate Client Sample	SEDIMENT	1.31g	14.07g	6.89g	43.7	K1005268-001	
133	KWG1004839-16	Duplicate Client Sample	MISC. SOLID	1.31g	9.02g	8.36g	91.4	K1005280-001	
134	KWG1004839-17	Duplicate Client Sample	SEDIMENT	1.32g	14.14g	8.97g	59.7	K1005281-001	
135	KWG1004839-18	Duplicate Client Sample	SEDIMENT	1.32g	12.09g	6.03g	43.7	K1005281-011	
136	KWG1004839-2	Duplicate Client Sample	SOIL	1.32g	12.14g	11.77g	96.6	K1005228-005	
137	KWG1004839-20	Duplicate Client Sample	SEDIMENT	1.30g	18.67g	10.97g	55.7	K1005284-001	
138	KWG1004839-21	Duplicate Client Sample	SOIL	1.32g	15.01g	12.49g	81.6	R1002707-001	
139	KWG1004839-22	Duplicate Client Sample	SLUDGE	1.31g	11.28g	3.01g	17.1	K1005207-001	
140	KWG1004839-3	Duplicate Client Sample	SOIL	1.32g	15.04g	14.57g	96.6	K1005228-011	
141	KWG1004839-4	Duplicate Client Sample	SOIL	1.31g	17.55g	16.89g	95.9	K1005228-021	
142	KWG1004839-5	Duplicate Client Sample	SOIL	1.31g	14.59g	13.21g	89.6	K1005234-001	
143	KWG1004839-6	Duplicate Client Sample	SOIL	1.30g	14.74g	13.02g	87.2	K1005234-011	

Group ID: KWG1004839
Analyst: Sarwood
Date Acquired: 05/25/2010 07:46
Date Completed: 05/26/2010 06:56
Oven TempStart: 105 DEG C
Oven TempEnd: 105 DEG C
Reviewed By: 
Date Reviewed: 5/26/10

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
144	KWG1004839-7	Duplicate Client Sample	SEDIMENT	1.31g	17.25g	14.28g	81.4	K1005237-001	
145	KWG1004839-8	Duplicate Client Sample	SEDIMENT	1.31g	10.35g	7.70g	70.7	K1005237-011	
146	KWG1004839-9	Duplicate Client Sample	SEDIMENT	1.31g	11.46g	6.56g	51.7	K1005237-021	
147	R1002707-001	OB2-SED-0510	SOIL	1.31g	14.39g	11.82g	80.4		
148	R1002707-002	OB1-SED-0510	SOIL	1.32g	25.05g	15.20g	58.5		
149	R1002707-003	OA1-SED-0510	SOIL	1.31g	13.97g	10.77g	74.7		
150	R1002707-004	OP1-SED-0510	SOIL	1.31g	12.87g	6.21g	42.4		
151	R1002707-005	OA2-SED-0510	SOIL	1.31g	16.64g	11.05g	63.5		
152	R1002707-006	OB3-SED-0510	SOIL	1.30g	19.72g	16.25g	81.2		

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 05/19/10
Date Received : 05/21/10

Ammonia as Nitrogen

Prep Method : EPA Plumb 5-1981 KCl
Analysis Method : 350.1M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-4-16	K1005244-003	27	3	50	5/24/2010	05/24/10	338	
Method Blank	K1005244-MB	0.50	0.04	1	5/24/2010	05/24/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 05/24/10
 Date Analyzed : 05/24/10

Duplicate Summary
 Inorganic Parameters

Sample Name : D-4-16
 Lab Code : K1005244-003DUP
 Test Notes :

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	27	338	339	339	<1	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 05/24/10
Date Analyzed : 05/24/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16 Units : mg/Kg
Lab Code : K1005244-003MS K1005244-003DMS Basis : Dry
Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	55	548	547	338	1000	995	122	120	42-143	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : NA
Date Received : NA
Date Prepared : 05/24/10
Date Analyzed : 05/24/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1005244-LCS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Ammonia as Nitrogen	EPA Plumb 5-1981 KCl	350.1M	14.3	14.8	103	86-115	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/24/2010	2.00	1.98	99
CCV2 Result	5/24/2010	2.00	1.98	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Ammonia as Nitrogen
350.1M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/24/2010	0.050	ND
CCB2 Result	5/24/2010	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 05/19/10
Date Received : 05/21/10

Cyanide, Total

Prep Method : Method
Analysis Method : 9012A
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-4-16	K1005244-003	0.20	0.06	1	5/24/2010	05/26/10	0.21	
Method Blank	K1005244-MB	0.20	0.06	1	5/24/2010	05/26/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 05/24/10
 Date Analyzed : 05/26/10

Duplicate Summary
 Inorganic Parameters

Sample Name : D-4-16
 Lab Code : K1005244-003DUP
 Test Notes :

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Cyanide, Total	Method	9012A	0.20	0.21	0.21	0.21	<1	

COLUMBIA ANALYTICAL SERVICES, INC.
QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 05/24/10
Date Analyzed : 05/26/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16 Units : mg/Kg
 Lab Code : K1005244-003MS K1005244-003DMS Basis : Dry
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Cyanide, Total	Method	9012A	0.20	2.20	2.15	0.21	2.24	2.17	93	91	10-167	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : NA
Date Received : NA
Date Prepared : 05/24/10
Date Analyzed : 05/26/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1005244-LCS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Cyanide, Total	Method	9012A	26.6	26.8	101	80-109	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Cyanide, Total
9012A
Units: ug/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/26/2010	100	101	101
CCV2 Result	5/26/2010	100	102	102
CCV3 Result	5/26/2010	100	101	101
CCV4 Result	5/26/2010	100	101	101
CCV5 Result	5/26/2010	100	102	102
CCV6 Result	5/26/2010	100	101	101
CCV7 Result	5/26/2010	100	101	101

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Cyanide, Total
9012A
Units: ug/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/26/2010	10	ND
CCB2 Result	5/26/2010	10	ND
CCB3 Result	5/26/2010	10	ND
CCB4 Result	5/26/2010	10	ND
CCB5 Result	5/26/2010	10	ND
CCB6 Result	5/26/2010	10	ND
CCB7 Result	5/26/2010	10	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 05/18,19/10
Date Received : 05/21/10

Chloride

Prep Method : CAS SOP
Analysis Method : 9056M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-1-13	K1005244-001	29	5	10	6/4/2010	06/08/10	637	
D-3-21	K1005244-002	24000	4000	10000	6/4/2010	06/08/10	339000	
D-4-16	K1005244-003	24000	4000	10000	6/4/2010	06/08/10	388000	
D-4-36	K1005244-004	24000	4000	10000	6/4/2010	06/08/10	307000	
Method Blank	K1005244-MB	2.0	0.4	1	6/4/2010	06/08/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 06/04/10
Date Analyzed : 06/08/10

Duplicate Summary
 Inorganic Parameters

Sample Name : D-4-16
Lab Code : K1005244-003DUP
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Chloride	CAS SOP	9056M	24000	388000	390000	389000	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16 Units : mg/Kg
 Lab Code : K1005244-003MS K1005244-003DMS Basis : Dry
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Chloride	CAS SOP	9056M	24000	2150	2160	388000	382000	373000	NA	NA	80-120	NC	*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : NA
Date Received : NA
Date Prepared : 06/04/10
Date Analyzed : 06/08/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1005244-LCS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery	
Chloride	CAS SOP	9056M	565	603	107	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Chloride
9056M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/8/2010	5.00	5.04	101
CCV2 Result	6/8/2010	5.00	5.02	100
CCV3 Result	6/8/2010	5.00	5.03	101
CCV4 Result	6/8/2010	5.00	5.02	100
CCV5 Result	6/8/2010	5.00	5.03	101

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Chloride
9056M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/8/2010	0.20	ND
CCB2 Result	6/8/2010	0.20	ND
CCB3 Result	6/8/2010	0.20	ND
CCB4 Result	6/8/2010	0.20	ND
CCB5 Result	6/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 05/18,19/10
Date Received : 05/21/10

Fluoride

Prep Method : CAS SOP
Analysis Method : 9056M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-1-13	K1005244-001	2.2	0.2	2	6/4/2010	06/08/10	75.3	
D-3-21	K1005244-002	2.2	0.2	2	6/4/2010	06/08/10	220	
D-4-16	K1005244-003	22	1.0	10	6/4/2010	06/08/10	446	
D-4-36	K1005244-004	2.2	0.2	2	6/4/2010	06/08/10	201	
Method Blank	K1005244-MB	2.2	0.1	1	6/4/2010	06/08/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 06/04/10
 Date Analyzed : 06/17/10

Duplicate Summary
 Inorganic Parameters

Sample Name : D-4-16
 Lab Code : K1005244-003DUP
 Test Notes :

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Fluoride	CAS SOP	9056M	2.2	446	516	481	15	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16
 Lab Code : K1005244-003MS
 Test Notes :

K1005244-003DMS

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Fluoride	CAS SOP	9056M	2.2	2150	2160	446	1790	1770	63	61	75-125	3	*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : NA
 Date Received : NA
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
 Lab Code : K1005244-LCS
 Test Notes :

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Fluoride	CAS SOP	9056M	53.2	76.6	144	90-110	*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Fluoride
9056M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/17/2010	5.00	4.89	98
CCV2 Result	6/17/2010	5.00	4.87	97
CCV3 Result	6/17/2010	5.00	4.85	97
CCV4 Result	6/17/2010	5.00	4.84	97
CCV5 Result	6/17/2010	5.00	4.84	97
CCV1 Result	6/8/2010	5.00	4.90	98
CCV2 Result	6/8/2010	5.00	4.86	97
CCV3 Result	6/8/2010	5.00	4.87	97
CCV4 Result	6/8/2010	5.00	4.86	97
CCV5 Result	6/8/2010	5.00	4.88	98

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Fluoride
9056M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/17/2010	0.20	ND
CCB2 Result	6/17/2010	0.20	ND
CCB3 Result	6/17/2010	0.20	ND
CCB4 Result	6/17/2010	0.20	ND
CCB5 Result	6/17/2010	0.20	ND
CCB1 Result	6/8/2010	0.20	ND
CCB2 Result	6/8/2010	0.20	ND
CCB3 Result	6/8/2010	0.20	ND
CCB4 Result	6/8/2010	0.20	ND
CCB5 Result	6/8/2010	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 05/18,19/10
 Date Received : 05/21/10

Nitrite as Nitrogen

Prep Method : CAS SOP
 Analysis Method : 9056M
 Test Notes :

Units : mg/Kg
 Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-1-13	K1005244-001	20	2.0	10	6/4/2010	06/08/10	296	
D-3-21	K1005244-002	56	1.7	50	6/4/2010	06/08/10	ND	i
D-4-16	K1005244-003	55	1.7	50	6/4/2010	06/08/10	ND	i
D-4-36	K1005244-004	52	1.7	50	6/4/2010	06/08/10	ND	i
Method Blank	K1005244-MB	2.2	0.1	1	6/4/2010	06/08/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 06/04/10
Date Analyzed : 06/17/10

Duplicate Summary
 Inorganic Parameters

Sample Name : D-4-16
Lab Code : K1005244-003DUP
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrite as Nitrogen	CAS SOP	9056M	55	ND	ND	ND	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 06/04/10
Date Analyzed : 06/08/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16 Units : mg/Kg
Lab Code : K1005244-003MS K1005244-003DMS Basis : Dry
Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrite as Nitrogen	CAS SOP	9056M	55	2150	2160	ND	2380	2260	111	105	75-125	6	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : WATER

Service Request : K1005244
 Date Collected : NA
 Date Received : NA
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Laboratory Control Sample
 Lab Code : K1005244-LCS
 Test Notes :

Units : mg/L
 Basis : NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Nitrite as Nitrogen	CAS SOP	9056M	100	104	104	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Nitrite as Nitrogen
9056M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/17/2010	2.00	1.96	98
CCV2 Result	6/17/2010	2.00	1.96	98
CCV3 Result	6/17/2010	2.00	1.95	98
CCV4 Result	6/17/2010	2.00	1.94	97
CCV5 Result	6/17/2010	2.00	1.94	97
CCV1 Result	6/8/2010	2.00	1.97	99
CCV2 Result	6/8/2010	2.00	1.97	99
CCV3 Result	6/8/2010	2.00	1.97	99
CCV4 Result	6/8/2010	2.00	1.96	98
CCV5 Result	6/8/2010	2.00	1.97	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Nitrite as Nitrogen
9056M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/17/2010	0.10	ND
CCB2 Result	6/17/2010	0.10	ND
CCB3 Result	6/17/2010	0.10	ND
CCB4 Result	6/17/2010	0.10	ND
CCB5 Result	6/17/2010	0.10	ND
CCB1 Result	6/8/2010	0.10	ND
CCB2 Result	6/8/2010	0.10	ND
CCB3 Result	6/8/2010	0.10	ND
CCB4 Result	6/8/2010	0.10	ND
CCB5 Result	6/8/2010	0.10	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 05/18,19/10
 Date Received : 05/21/10

Nitrate as Nitrogen

Prep Method : CAS SOP
 Analysis Method : 9056M
 Test Notes :

Units : mg/Kg
 Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-1-13	K1005244-001	15	0.8	10	6/4/2010	06/08/10	165	
D-3-21	K1005244-002	56	2.7	50	6/4/2010	06/08/10	ND	i
D-4-16	K1005244-003	55	2.7	50	6/4/2010	06/08/10	ND	i
D-4-36	K1005244-004	52	2.7	50	6/4/2010	06/08/10	ND	i
Method Blank	K1005244-MB	2.2	0.1	1	6/4/2010	06/08/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 06/04/10
Date Analyzed : 06/17/10

Duplicate Summary
Inorganic Parameters

Sample Name : D-4-16
Lab Code : K1005244-003DUP
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Nitrate as Nitrogen	CAS SOP	9056M	55	ND	66	NC	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 5/19/2010
Date Received : 5/21/2010
Date Prepared : 06/04/10
Date Analyzed : 06/08/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16 Units : mg/Kg
 Lab Code : K1005244-003MS K1005244-003DMS Basis : Dry
 Test Notes :

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Nitrate as Nitrogen	CAS SOP	9056M	1.5	2150	2160	ND	2450	2400	114	111	75-125	3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : NA
 Date Received : NA
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name : Lab Control Sample
 Lab Code : K1005244-LCS
 Test Notes :

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Nitrate as Nitrogen	CAS SOP	9056M	164	169	103	85-115	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Nitrate as Nitrogen
9056M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/17/2010	2.00	1.98	99
CCV2 Result	6/17/2010	2.00	1.98	99
CCV3 Result	6/17/2010	2.00	1.96	98
CCV4 Result	6/17/2010	2.00	1.96	98
CCV5 Result	6/17/2010	2.00	1.96	98
CCV1 Result	6/8/2010	2.00	1.98	99
CCV2 Result	6/8/2010	2.00	1.98	99
CCV3 Result	6/8/2010	2.00	1.98	99
CCV4 Result	6/8/2010	2.00	1.97	99
CCV5 Result	6/8/2010	2.00	1.98	99

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Nitrate as Nitrogen
9056M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/17/2010	0.10	ND
CCB2 Result	6/17/2010	0.10	ND
CCB3 Result	6/17/2010	0.10	ND
CCB4 Result	6/17/2010	0.10	ND
CCB5 Result	6/17/2010	0.10	ND
CCB1 Result	6/8/2010	0.10	ND
CCB2 Result	6/8/2010	0.10	ND
CCB3 Result	6/8/2010	0.10	ND
CCB4 Result	6/8/2010	0.10	ND
CCB5 Result	6/8/2010	0.10	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : 05/19/10
Date Received : 05/21/10

Sulfate

Prep Method : CAS SOP
Analysis Method : 9056M
Test Notes :

Units : mg/Kg
Basis : Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Result	Result Notes
D-4-16	K1005244-003	2.2	0.2	2	6/4/2010	06/08/10	22.7	
Method Blank	K1005244-MB	2.2	0.2	1	6/4/2010	06/08/10	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Duplicate Summary
 Inorganic Parameters

Sample Name : D-4-16
 Lab Code : K1005244-003DUP
 Test Notes :

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Sulfate	CAS SOP	9056M	2.2	22.7	18.4	20.6	21	*

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
 Project Name : Heglar - Kronquist
 Project Number : 0907194.000.0601
 Sample Matrix : MISC. SOLID

Service Request : K1005244
 Date Collected : 5/19/2010
 Date Received : 5/21/2010
 Date Prepared : 06/04/10
 Date Analyzed : 06/08/10

Matrix Spike/Duplicate Matrix Spike Summary

Sample Name : D-4-16
 Lab Code : K1005244-003MS
 Test Notes :

K1005244-003DMS

Units : mg/Kg
 Basis : Dry

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Spike Recovery		CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
Sulfate	CAS SOP	9056M	110	2150	2160	22.7	2210	2170	102	99	75-125	3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project Name : Heglar - Kronquist
Project Number : 0907194.000.0601
Sample Matrix : MISC. SOLID

Service Request : K1005244
Date Collected : NA
Date Received : NA
Date Prepared : 06/04/10
Date Analyzed : 06/08/10

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name : Lab Control Sample
Lab Code : K1005244-LCS
Test Notes :

Units : mg/Kg
Basis : Dry

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Sulfate	CAS SOP	9056M	447	518	116	85-115	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Sulfate
9056M
Units: mg/L

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	6/8/2010	5.00	5.27	105
CCV2 Result	6/8/2010	5.00	5.24	105
CCV3 Result	6/8/2010	5.00	5.23	105
CCV4 Result	6/8/2010	5.00	5.23	105
CCV5 Result	6/8/2010	5.00	5.25	105

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Exponent
Project : Heglar - Kronquist

Service Request : K1005244
Date Collected : NA
Date Received : NA

Sulfate
9056M
Units: mg/L

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	6/8/2010	0.20	ND
CCB2 Result	6/8/2010	0.20	ND
CCB3 Result	6/8/2010	0.20	ND
CCB4 Result	6/8/2010	0.20	ND
CCB5 Result	6/8/2010	0.20	ND

Work Request # ^{Original} (K5244) _____
 Tier: III _____
 Date Analyzed: 05/24/10 _____
 Analyst: HWY/WW _____
 Analysis: NH₃ - 350.1M (Plumb) 202064

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- | | | |
|-----|---|--|
| 1. | Is the method name and number correct and appropriate? | <input checked="" type="radio"/> yes/no/NA |
| 2. | Holding times met for all analyses and for all samples? | <input checked="" type="radio"/> yes/no/NA |
| 3. | Are calculations correct? | <input checked="" type="radio"/> yes/no/NA |
| 4. | Is the reporting basis correct? (Dry Weight) | <input checked="" type="radio"/> yes/no/NA |
| 5. | All quality control criteria met? | <input checked="" type="radio"/> yes/no/NA |
| | a. Is the calibration curve correlation coefficient ≥ 0.995 ? | <input checked="" type="radio"/> yes/no/NA |
| | b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? | <input checked="" type="radio"/> yes/no/NA |
| | c. Are ICVs, CCVs, and CCBs all within acceptance limits? | <input checked="" type="radio"/> yes/no/NA |
| | d. Are results for methods blanks all ND? | <input checked="" type="radio"/> yes/no/NA |
| | e. Are all QC samples within acceptance criteria?
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) | <input checked="" type="radio"/> yes/no/NA |
| | f. Are all exceptions explained? | <input checked="" type="radio"/> yes/no/NA |
| 6. | Are all service requests that apply attached? | <input checked="" type="radio"/> yes/no/NA |
| 7. | Are all samples labelled correctly? | <input checked="" type="radio"/> yes/no/NA |
| 8. | Have all instructions on the service request been followed?
(e.g. Special MRLs, QC on a specific sample) | <input checked="" type="radio"/> yes/no/NA |
| 9. | Are detection limits and units reported correctly? | <input checked="" type="radio"/> yes/no/NA |
| 10. | Are proper Analysis/Extraction stickers included on report? | <input checked="" type="radio"/> yes/no/NA |
| 11. | Is the unused space on the benchsheet crossed out? | <input checked="" type="radio"/> yes/no/NA |
| 12. | Was analysis turned in by the due date? (n-2) (If not record SR#) | <input checked="" type="radio"/> yes/no/NA |

COMMENTS:

Final Approved by:  Date: 5/26/10 DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-01 Analyst: THANGANU Analysis Lot: 202064 Method/Testcode: 350.1M/NH3 Plumb

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	As Received*	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1005244-003	Ammonia as Nitrogen	N/A		Misc. Solid	1.23 mg/L	306.78	338 mg/Kg	50	3	27			5/24/10 14:39:00	N V
Q1004739-01	Ammonia as Nitrogen	LCS		Misc. Solid	2.95 mg/L	14.76	14.8 mg/Kg	1	0.04	0.50	103		5/24/10 14:39:00	N V
Q1004739-02	Ammonia as Nitrogen	MB		Misc. Solid	0.00 mg/L	0.00	0.50 mg/Kg	1	0.04	0.50			5/24/10 14:39:00	N V
Q1004739-03	Ammonia as Nitrogen	MS	K1005244-003	Misc. Solid	1.83 mg/L	911.33	1000 mg/Kg	100	5	55	122		5/24/10 14:39:00	N V
Q1004739-04	Ammonia as Nitrogen	DMS	K1005244-003	Misc. Solid	1.82 mg/L	902.23	995 mg/Kg	100	5	55	120	1	5/24/10 14:39:00	N V
Q1004739-05	Ammonia as Nitrogen	DUP	K1005244-003	Misc. Solid	1.24 mg/L	307.46	339 mg/Kg	50	3	27		<1	5/24/10 14:39:00	N V
Q1004739-01	Ammonia as Nitrogen	CCB		Misc. Solid	0.01 mg/L	0.03	0.50 mg/Kg	1	0.04	0.50			5/24/10 14:39:00	N V
Q1004739-02	Ammonia as Nitrogen	CCB		Misc. Solid	0.01 mg/L	0.03	0.50 mg/Kg	1	0.04	0.50			5/24/10 14:39:00	N V
Q1004739-03	Ammonia as Nitrogen	CCV		Misc. Solid	1.98 mg/L	99%	9.90 mg/Kg	1	0.04	0.50			5/24/10 14:39:00	N V
Q1004739-04	Ammonia as Nitrogen	CCV		Misc. Solid	1.98 mg/L	99%	9.88 mg/Kg	1	0.04	0.50			5/24/10 14:39:00	N V

$Spike = 1.0 \times 100000 \mu g / 20.13 / 0.907 = 548$ % Rec = 121%
 $Spike Dup = 1.0 \times 100000 \mu g / 20.15 / 0.907 = 547$ % Rec = 120%

05/24/10

Thanganu

5/26/10

Not adjusted for changes in units indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

V.
K5244

BRAN+LUEBBE

Post-run report

Name of Run : 100524C
Date of Report : 5/24/2010
Date of Run : 5/24/2010
Operator :
Comment :

Name of Analysis : Ammonia.ANL
System No. : 1
Type of System : AA3
Start/Stop time : 14:39 - 15:19

Channel : 2
Method : Method 2
Unit : mg/L
Calibr. Fit : Linear
Corr. Coeff. : 1.0000
Base : -19636
Gain : 20
Sensitivity : 0.4351
Sample Limit 1 :
Sample Limit 2 :

LESID#: B+LNH₃/I-34-I T.V.=17.3
SpikeID#: B+LNH₃/I-85-G
Curve, CCV ID#: B+LNH₃/I-55-Z T.V.=2.00
MMS=2.00

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0256
1	1	P Primer	4.9927
2	1	D Drift	4.9959
3	1	C 5.00	5.0063
4	2	C 2.00	1.9842
5	3	C 0.50	0.4990
6	4	C 0.05	0.0560
7	5	C 0	0.0045
8	0	B Baseline	-0.0256
9	1	H1 High	4.9991
10	0	L1 Low	-0.0213
11	0	L1 Low	-0.0213
12	5	QC2 CCB1	0.0061
13	2	QC1 CCV1	1.9807
14	10	QC3 LCS1	2.9510
15	11	S MB MS	1.9865
16	0	N Null	-0.0219N
17	5	QC2 MB1	0.0056
18	12	S MB 05/24/10	-0.0001
19	13	S k1005244-003*50	1.2345
20	14	S k1005244-003d*50	1.2366
21	15	S k1005244-003ms*100	1.8345
22	16	S k1005244-003msd*100	1.8180
23	0	B baseline	-0.0256
24	5	QC2 CCB2	0.0051
25	2	QC1 CCV2	1.9769
26	1	D Drift	4.9959

<0.020 99%
1.98 103%
1.99 100%

<0.020

<0.020 99%
1.98

3A
5/24/10
Hurry
05/24/10
Hurry

27	0	B	Baseline	-0.0256
28	0	B	FinalBase	-0.0256

QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.1

- * ... Sample offscale
- + ... Result higher than sample limit
- ... Result lower than sample limit
- P ... Standard passed
- F ... Standard failed
- N ... Value not calculated or not used
- R ... Resample after offscale
- M ... Peak marker moved manually
- D ... Diluted sample

** <END OF REPORT> **

SN
5/20/10

05/24/10
Hengou

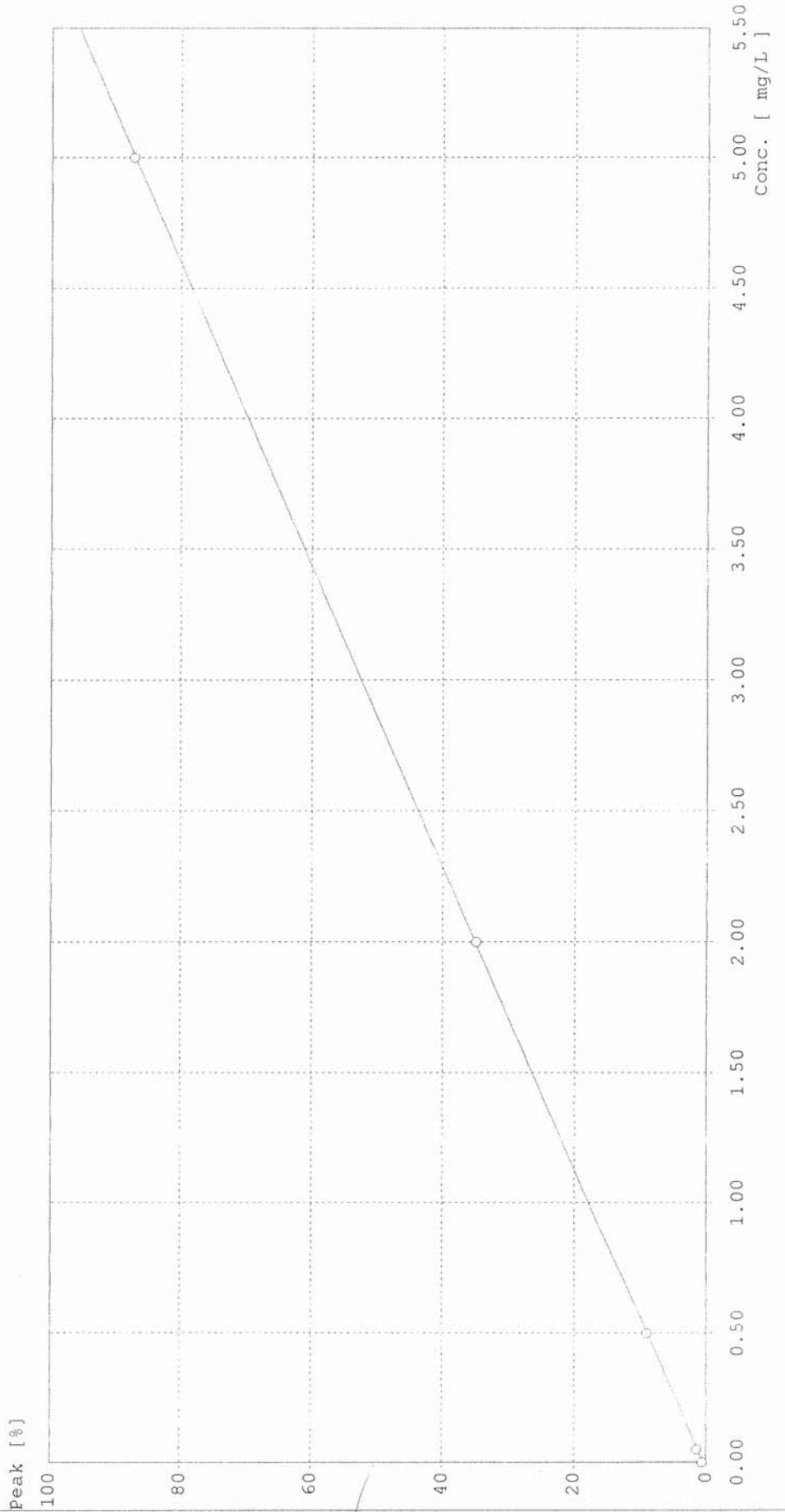
BRAN+LUEBBE

Calibration Curve

Name of run : 100524C.run
Comment :

Name of analysis : Ammonia.ANL

Channel : 2
Method : Method 2
Curve fit : linear
Corr. coeff. : 1.0000
a=-3.1358E-001 b=8.8028E-005



SAD
5/26/10

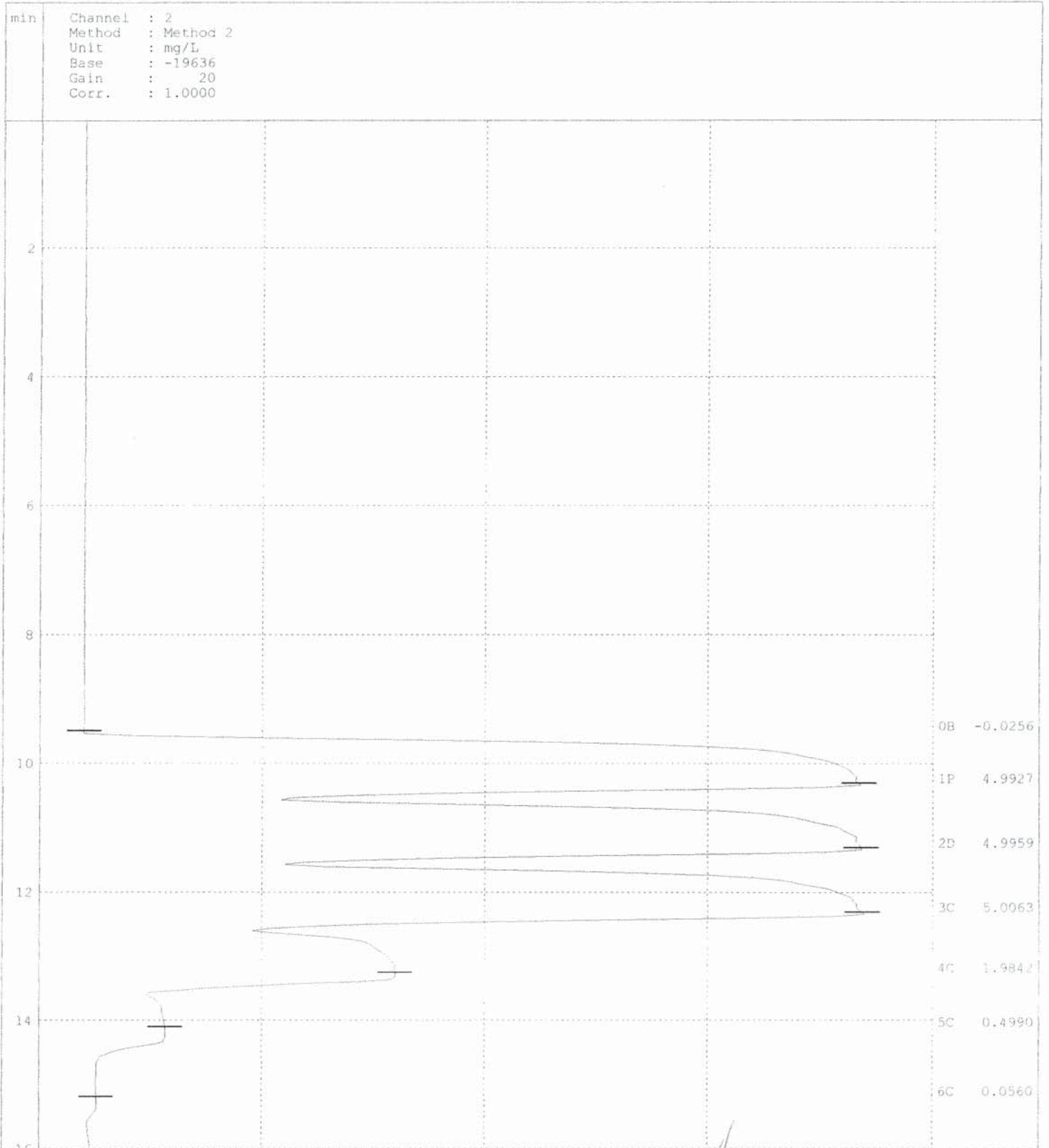
05/24/10
Thengum

BRAN+LUEBBE

Post-run chart

Name of run :100524C.RUN
Comment :

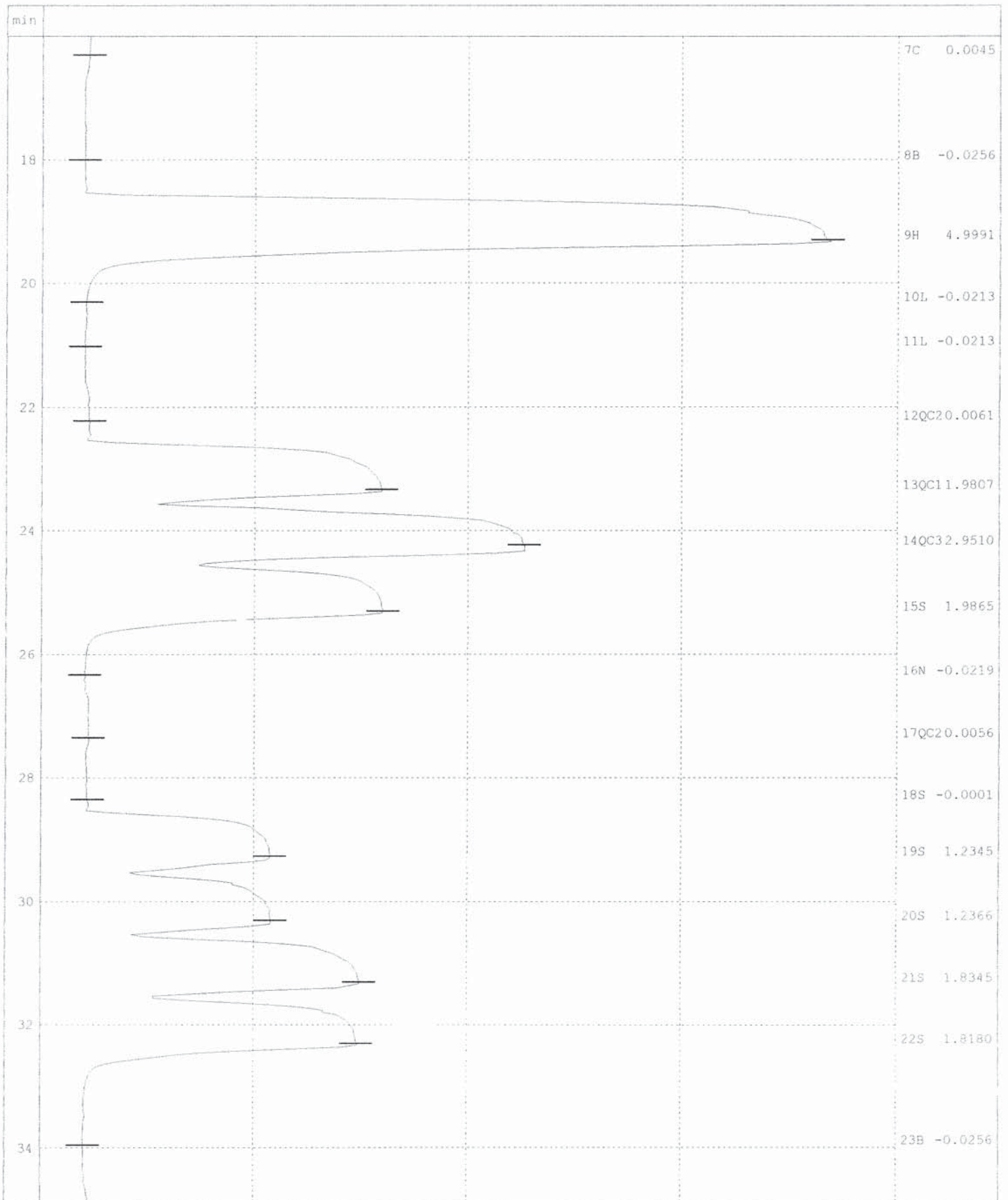
Name of analysis :Ammonia.ANL



Handwritten notes:
5/26/10
05/24/10
Fouquier

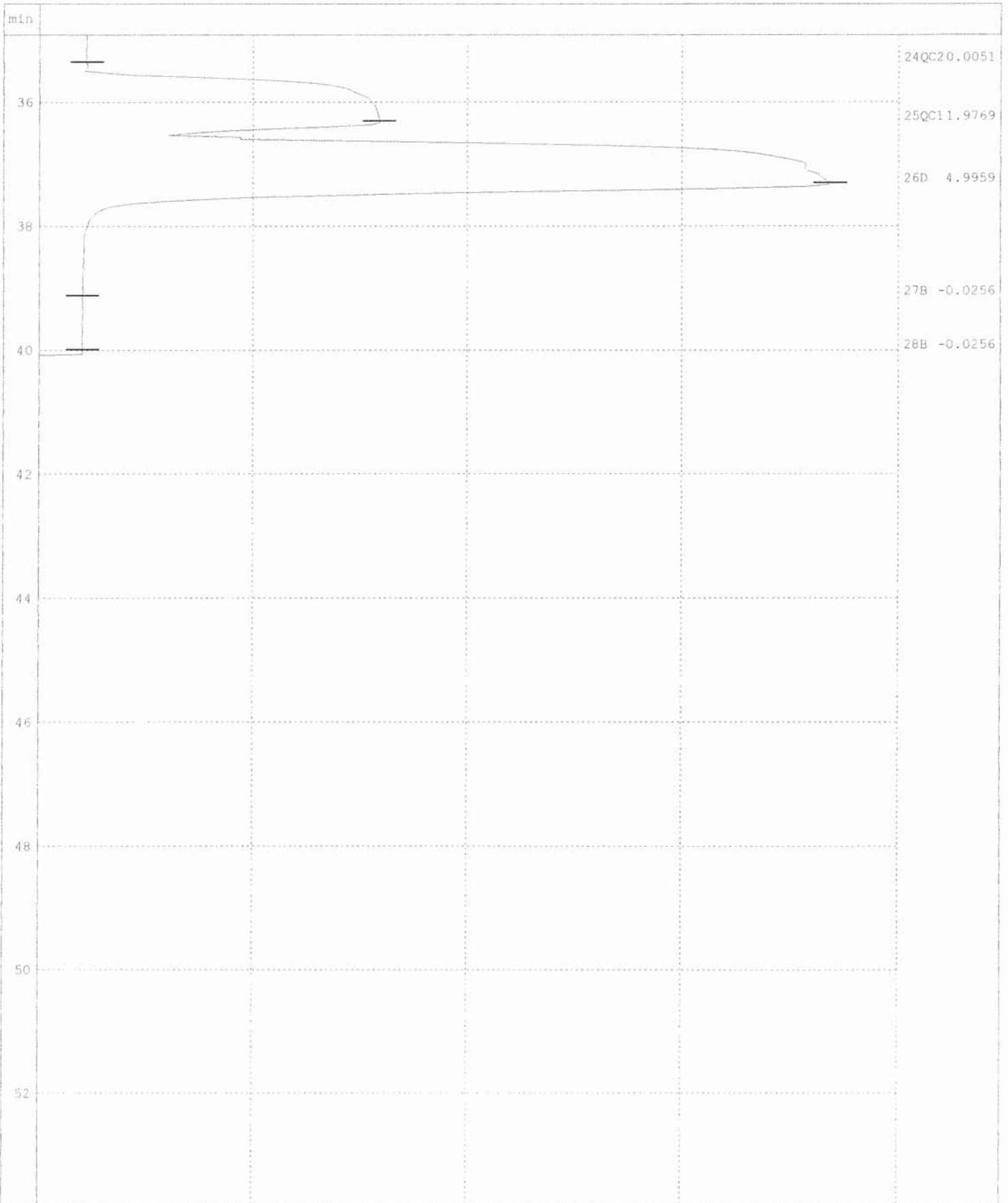
Name of run :100524C.RUN
Comment :

Name of analysis :Ammonia.ANL



Name of run :100524C.RUN
Comment :

Name of analysis :Ammonia.ANL



Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 112106 **Prep Workflow:** GenExtKCl-7Day **Status:** Prepped **Prep Date:** 05/24/2010
Team: GenChem **Prep Method:** EPA Plumb **Current Step:** Extraction **Due Date:** 06/12/2010
Analyst: Tinca H **Rush/NPDES:** N/A

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	Comments
KQ1004739-02	Method Blank		20.00 g	100 mL			
KQ1004739-01	Lab Control Sample		20.00 g	100 mL	20 mL	15630	TV=14.3mg/KG
K1005244-003	D-4-16	.03	20.12 g	100 mL			
K1005244-003: KQ1004739-05	Duplicate	.03	20.11 g	100 mL			
K1005244-003: KQ1004739-03	Matrix Spike	.03	20.13 g	100 mL	1 mL	18061	
K1005244-003: KQ1004739-04	Duplicate Matrix Spike	.03	20.15 g	100 mL	1 mL	18061	

6 Total Samples consisting of 1 Client Sample, 3 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
Ammonia 10,000ppm N (10 mg/mL N) NH3	Spike	18061	11/20/2010	NH3 / Ophos / NO3 LCS Mixture	Spike	15630	6/30/2010

Preparation Materials

Preparation Hardware / Equipment

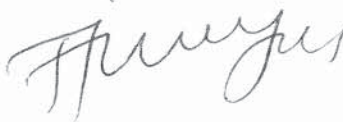
Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Extraction	24-MAY-10 10:00	24-MAY-10 12:00	Tinca H		N	

Comments

Review

Reviewed by: SA Date: 5/24/10

05/24/10


Work Order #:

K5244

Method:

350.1M

Analysis:

NH₃ - PLUMB

Date Prepared	Sample Name Lab Code	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
05/24/10	MB	20.00	100				
	LCS	20.00					
	K5244-3	20.12					
	-3d	20.11					
	-3ms	20.13					
	-3msd	20.15					

Spike = 1.0 ml x 10000 ppm (B + LNH₃, - 1 - R)

MS=

MSD=

X=

LCS = 20 ml x 14.3 / 20 g = 14.3

RPD=

STD ID # =

Comments:

Prepared By: <u>Houng</u>	Date Prepared: <u>05/24/10</u>	TIME: <u>10.00</u>
Analyzed By: <u>Houng</u>	Date Analyzed: <u>05/24/10</u>	
Reviewed By: <u>GA</u>	Date Reviewed: <u>5/26/10</u>	

Work Request # ^{Original} (K5055) K5112 K4798 K4914 K5207 K5244
 Tier: I II III II IV V
 Date Analyzed: 5/26/10
 Analyst: Deake
 Analysis: CAI, CAI tot

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- | | | |
|-----|---|---|
| 1. | Is the method name and number correct and appropriate? | <input checked="" type="radio"/> yes/no/NA |
| 2. | Holding times met for all analyses and for all samples? | <input checked="" type="radio"/> yes/no/NA |
| 3. | Are calculations correct? | <input checked="" type="radio"/> yes/no/NA |
| 4. | Is the reporting basis correct? (Dry Weight) | <input checked="" type="radio"/> yes/no/NA |
| 5. | All quality control criteria met? | <input checked="" type="radio"/> yes/no/NA |
| a. | Is the calibration curve correlation coefficient ≥ 0.995 ? | yes/no/NA |
| b. | MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? | yes/no/NA |
| c. | Are ICVs, CCVs, and CCBs all within acceptance limits? | yes/no/NA |
| d. | Are results for methods blanks all ND? | yes/no/NA |
| e. | Are all QC samples within acceptance criteria?
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) | yes/no/NA |
| f. | Are all exceptions explained? | yes/no/NA |
| 6. | Are all service requests that apply attached? | <input checked="" type="radio"/> yes/no/NA |
| 7. | Are all samples labelled correctly? | <input checked="" type="radio"/> yes/no/NA |
| 8. | Have all instructions on the service request been followed?
(e.g. Special MRLs, QC on a specific sample) | <input checked="" type="radio"/> yes/no/NA |
| 9. | Are detection limits and units reported correctly? | <input checked="" type="radio"/> yes/no/NA |
| 10. | Are proper Analysis/Extraction stickers included on report? | yes/no/ <input checked="" type="radio"/> NA |
| 11. | Is the unused space on the benchsheet crossed out? | <input checked="" type="radio"/> yes/no/NA |
| 12. | Was analysis turned in by the due date? (n-2) (If not record SR#) | <input checked="" type="radio"/> yes/no/NA |

COMMENTS:

Final Approved by: _____

Date: _____

5/27/10

DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-03

Analyst: DLEAKE

Analysis Lot:

202460

Method/Testcode: 335 2M/CN

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	As Received*	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
1004798-001	Cyanide, Total	N/A		Sludge, Solid	25.48 µg/L	229.30	1.3 mg/Kg	1	0.7	1.1				N	III
1004914-001	Cyanide, Total	N/A		Sludge, Solid	22.31 µg/L	217.45	1.00 mg/Kg	1	0.27	0.90				N	II
1004914-002	Cyanide, Total	N/A		Sludge, Solid	7.63 µg/L	73.92	0.80 mg/Kg	1	0.30	0.80				N	II
1005055-001	Cyanide, Total	N/A		Water	0.62 µg/L	0.15	0.010 mg/L	U	0.003	0.010	< 0.005			N	V
1005055-002	Cyanide, Total	N/A		Water	1.52 µg/L	0.36	0.010 mg/L	U	0.003	0.010				N	V
1005055-003	Cyanide, Total	N/A		Water	0.48 µg/L	0.11	0.010 mg/L	U	0.003	0.010				N	V
1005055-004	Cyanide, Total	N/A		Water	1.21 µg/L	0.29	0.010 mg/L	U	0.003	0.010				N	V
1005055-005	Cyanide, Total	N/A		Water	0.53 µg/L	0.13	0.010 mg/L	U	0.003	0.010				N	V
1005055-006	Cyanide, Total	N/A		Water	2.93 µg/L	0.69	0.010 mg/L	U	0.003	0.010				N	V
1005055-007	Cyanide, Total	N/A		Water	0.25 µg/L	0.06	0.010 mg/L	U	0.003	0.010				N	V
1005055-008	Cyanide, Total	N/A		Water	1.70 µg/L	0.40	0.010 mg/L	U	0.003	0.010				N	V
1005055-009	Cyanide, Total	N/A		Water	1.46 µg/L	0.34	0.010 mg/L	U	0.003	0.010				N	V
1005112-001	Cyanide, Total	N/A		Drinking Water	0.01 µg/L	0.01	0.010 mg/L	U	0.003	0.010				N	II
1005112-002	Cyanide, Total	N/A		Drinking Water	-0.03 µg/L	-0.01	0.010 mg/L	U	0.003	0.010				N	II
1005207-001	Cyanide, Total	N/A		Sludge	20.54 µg/L	188.37	1.1 mg/Kg	1	0.9	1.0				N	V
1005244-003	Cyanide, Total	N/A		Misc.	20.53 µg/L	187.80	0.21 mg/Kg	1	0.1	0.20				N	V
Q1004703-01	Cyanide, Total	MS	K1005055-008	Water	214.50 µg/L	100.94	0.101 mg/L	2	0.006	0.020				N	V
Q1004703-02	Cyanide, Total	DMS	K1005055-008	Water	208.30 µg/L	98.02	0.098 mg/L	2	0.006	0.020				N	II
Q1004703-03	Cyanide, Total	LCS		Misc.	214.10 µg/L	26762.50	26.8 mg/Kg	5	0.1	1.0				N	V
Q1004703-03	Cyanide, Total	LCS		Solid	214.10 µg/L	26762.50	26.8 mg/Kg	5	0.8	2.5				N	V
Q1004703-03	Cyanide, Total	LCS		Misc.	214.10 µg/L	26762.50	26.8 mg/Kg	5	0.8	2.5				N	V
Q1004703-03	Cyanide, Total	LCS		Misc.	214.10 µg/L	26762.50	26.8 mg/Kg	5	0.8	2.5				N	V
Q1004703-04	Cyanide, Total	LCS		Misc.	145.80 µg/L	729.00	0.729 mg/L	1	0.003	0.010				N	V
Q1004703-05	Cyanide, Total	LCS		Misc.	145.80 µg/L	729.00	0.729 mg/L	1	0.003	0.010				N	V
Q1004703-06	Cyanide, Total	MB		Misc.	-0.03 µg/L	-0.24	0.20 mg/Kg	U	0.01	0.20				N	V
Q1004703-06	Cyanide, Total	MB		Misc.	-0.03 µg/L	-0.24	0.18 mg/Kg	U	0.06	0.18				N	V
Q1004703-06	Cyanide, Total	MB		Misc.	-0.03 µg/L	-0.24	0.18 mg/Kg	U	0.06	0.18				N	V
Q1004703-07	Cyanide, Total	MB		Misc.	-0.09 µg/L	-0.02	0.010 mg/L	U	0.003	0.010				N	V
Q1004703-08	Cyanide, Total	MB		Misc.	-0.09 µg/L	-0.02	0.010 mg/L	U	0.003	0.010				N	V
Q1004703-11	Cyanide, Total	DUP	K1005055-008	Water	1.90 µg/L	0.45	0.010 mg/L	U	0.003	0.010				N	V

Not adjusted for changes in units
indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 5/27/10 11:02

Results Summary

Handwritten signature
5/27/10

Handwritten notes:
0.003 0.010 < 0.005
0.003 0.010 < 0.005

Analytical Results Summary

Instrument Name: K-FIA-03		Analysis: DLEAKE		Analysis Lot: 202460		Method/Testcode: 9012A/CN Tot								
ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	As Received*	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
Q1004703-12	Cyanide, Total	DUP	K1005244-003	Misc.	20.27 µg/L	186.99	0.21 mg/Kg	1	0.1	0.20		0		N V
Q1004703-13	Cyanide, Total	MS	K1005244-003	Misc.	204.00 µg/L	2034.30	2.24 mg/Kg	1	0.07	0.22	93			N V
Q1004703-14	Cyanide, Total	DMS	K1005244-003	Misc.	201.70 µg/L	1969.73	2.17 mg/Kg	1	0.1	0.22	91	3		N V
Q1004703-15	Cyanide, Total	DUP	K1005207-001	Sludge	25.84 µg/L	238.38	1.4 mg/Kg	1	0.9	1.0		23*		N V
Q1004703-16	Cyanide, Total	DUP	K1005207-001	Sludge	6.82 µg/L	62.48	1.0 mg/Kg	1	0.9	1.0		100*		N V
Q1004893-01	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.01	0.20				N III
Q1004893-01	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-01	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-02	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.01	0.20				N III
Q1004893-02	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-02	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-02	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-03	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.01	0.20				N III
Q1004893-03	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-04	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.01	0.20				N III
Q1004893-04	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-04	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-05	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.01	0.20				N III
Q1004893-05	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-06	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.01	0.20				N III
Q1004893-06	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-07	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-07	Cyanide, Total	CCB		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-08	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-08	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-08	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-09	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-09	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-10	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-10	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-10	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-11	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III
Q1004893-11	Cyanide, Total	CCV		Sludge, Solid	0.00 µg/L	0.00	0.20 mg/Kg	1	0.06	0.20				N III

Not adjusted for changes in units
 indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

BA
5/27/10

Analytical Results Summary

Instrument Name: K-FIA-03

Analyst: DLEAKE

Analysis Lot:

202460

Method/Testcode: SM 4500-CN- E Modified/CN Tot

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	As Received*	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
Q1004893-11	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III
Q1004893-12	Cyanide, Total	CCV		Sludge, Solid	102.00 µg/L	1020.00	102 mg/Kg	1						N III
Q1004893-12	Cyanide, Total	CCV		Sludge, Solid	102.00 µg/L	1020.00	102 mg/Kg	1						N III
Q1004893-12	Cyanide, Total	CCV		Sludge, Solid	102.00 µg/L	1020.00	102 mg/Kg	1						N III
Q1004893-13	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III
Q1004893-13	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III
Q1004893-13	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III
Q1004893-14	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III
Q1004893-14	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III
Q1004893-14	Cyanide, Total	CCV		Sludge, Solid	101.00 µg/L	1010.00	101 mg/Kg	1						N III

5/17/10

Not adjusted for changes in units
indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Original Run Filename: OM_5-26-2010_02-24-21PM.OMN created 5/26/2010 2:24:21 PM
 Original Run Author's Signature: [Omnion User]
 Current Run Filename: OM_5-26-2010_02-24-21PM.OMN last modified 5/26/2010 3:40:42 PM
 Current Run Author's Signature: [Omnion User]
 Description: Default new Run

DL 5/26/10

Sample	Rep.	Channel 2
		Cyanide (ug/L)
Cal Std A	1	300.0
Cal Std B	1	200.0
Cal Std C	1	150.0
Cal Std D	1	100.0
Cal Std E	1	50.00
Cal Std F	1	20.00
Cal Std G	1	10.00
	2	10.00
Blank	1	0.000
	2	0.000
ICV	1	148.9
Calibration: Table/Fig. 1		
ICB	1	-0.6401
CCV	1	101.2
Known Conc:		100.0
CCB	1	-0.3646
Known Conc:		0.000
MB 5-24-10	1	-0.08589
LCS	1	145.8
0.150 dist 2X	1	160.6
0.050 dist	1	97.98
5055-8	1	1.698
5055-8d	1	1.902
5055-8s 2x	1	214.5
5055-8sd 2x	1	208.3
5055-1	1	0.6180
5055-2	1	1.520
CCV	1	101.6
Known Conc:		100.0
CCB	1	-0.4562
Known Conc:		0.000
5055-3	1	0.4823
5055-4	1	1.212
5055-5	1	0.5333
5055-6	1	2.925
5055-7	1	0.2513
5055-9	1	1.456
5112-1	1	0.01395
5112-2	1	-0.02708
MB 5-24-10 solids	1	0.1143
LCS 5x	1	214.1
CCV	1	101.1
Known Conc:		100.0
CCB	1	0.9107
Known Conc:		0.000
5244-3	1	20.53
5244-3d	1	20.27
5244-3s	1	204.0
5244-3sd	1	201.7
4798-1	1	25.48
4914-1	1	22.31
4914-2	1	7.634
5207-1	1	20.54
5207-1d	1	25.84
5207-1t	1	6.823
CCV	1	100.9
Known Conc:		100.0
CCB	1	-0.3930

99

<10

101

<10

102

<10

101

<10

101

<10

5/27/10

DL 5/26/10

Known Conc:		0.000
MB 5-25-10 wad	1	2.322
LCS wad	1	79.41
0.10 dist wad	1	263.6
5258-1	1	2.394
5258-1d	1	2.984
5258-1s 2x	1	234.9
5258-1sd 2x	1	229.7
5258-2	1	2.651
5258-2d	1	6.754
5258-2s 2x	1	218.1
CCV	1	101.7
Known Conc:		100.0
CCB	1	-0.3897
Known Conc:		0.000
5258-2sd 2x	1	214.1
5258-3	1	3.178
5258-4	1	1.569
5258-5	1	2.648
5258-6	1	1.691
5055-1	1	0.2897
5055-2	1	1.292
5055-3	1	1.320
5055-4	1	2.143
5055-5	1	4.354
CCV	1	101.0
Known Conc:		100.0
CCB	1	-0.2445
Known Conc:		0.000
5055-6	1	1.015
5055-7	1	2.192
5055-8	1	1.498
5055-9	1	0.3698
5313-1 LOD	1	20.15
5313-1 LOQ	1	31.46
CCV	1	101.3
Known Conc:		100.0
CCB	1	-0.3062
Known Conc:		0.000

102

410

101

410

101

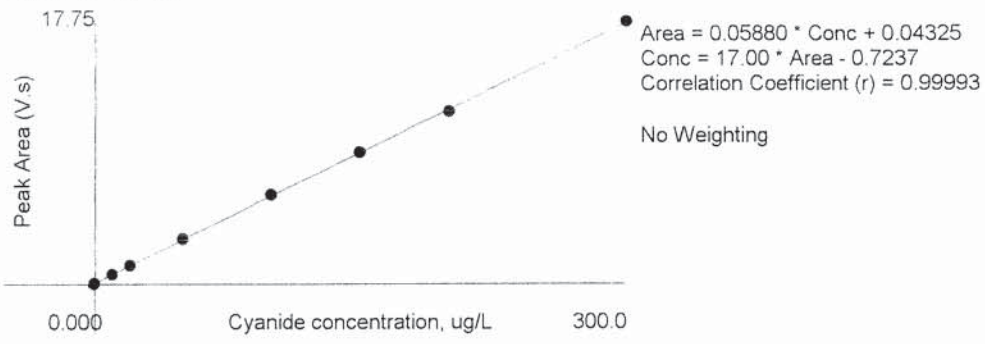
410

5/27/10

Table 1: Cyanide

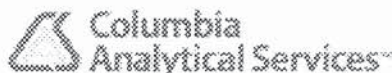
	Known Conc. (ug/L)	Rep	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc. (ug/L)	Detection Date	Detection Time
1	300.0	1	17.75	1.050	0.0	-0.4	301.2	5/26/2010	2:25:15 PM
2	200.0	1	11.63	0.6884	0.0	1.5	197.1	5/26/2010	2:26:05 PM
3	150.0	1	8.885	0.5271	0.0	-0.2	150.4	5/26/2010	2:26:57 PM
4	100.0	1	5.996	0.3573	0.0	-1.2	101.2	5/26/2010	2:27:49 PM
5	50.00	1	3.026	0.1801	0.0	-1.4	50.72	5/26/2010	2:28:41 PM
6	20.00	1	1.251	0.07575	0.0	-2.6	20.55	5/26/2010	2:29:35 PM
7	10.00	1	0.6291	0.03847	0.9	0.3	9.974	5/26/2010	2:30:29 PM
8	10.00	2	0.6373	0.03859	0.9	-1.0	10.11	5/26/2010	2:31:23 PM
9	0.000	1	0.003685	-0.001362			-0.6610	5/26/2010	2:32:18 PM
10	0.000	2	0.01233	0.001449			-0.5141	5/26/2010	2:33:12 PM

Figure 1: Cyanide



DL 5/26/10

5/27/10



Preparation Information Benchsheet

Prep Run: 112057 **Prep Workflow:** Gen Dist CN **Status:** Prepped **Prep Date:** 05/24/2010
Team: GenChem **Prep Method:** EPA **Current Step:** Distillation **Due Date:** 03:00
Analyst: DLeake **Prep Method:** 9010B,Method,SM **Due Date:** 05/30/2010
Rush/NPDES: N/A **Prep Method:** 4500-CN-C

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	Comments
KQ1004703-06	Method Blank		2.829 g	20 mL			
KQ1004703-07	Method Blank		85 mL	20 mL			
KQ1004703-08	Method Blank		85 mL	20 mL			
KQ1004703-03	Lab Control Sample		1.000 g	20 mL	1 g	16255	
KQ1004703-04	Lab Control Sample		5 mL	20 mL	5 mL	18045	
KQ1004703-05	Lab Control Sample		5 mL	20 mL	5 mL	18045	
K1004798-001	Dewatered Sludge 2nd Qtr.	.01	2.778 g	20 mL			
K1004914-001	DM Cent Cake	.01	2.565 g	20 mL			
K1004914-002	RC Cake	.01	2.582 g	20 mL			
K1005055-001	0510ARLB007WS001	.07	85 mL	20 mL			
K1005055-002	0510ARLB007WS201	.07	85 mL	20 mL			
K1005055-003	0510ARLB008WS001	.07	85 mL	20 mL			
K1005055-004	0510ARLB004WS001	.07	85 mL	20 mL			
K1005055-005	0510ARLB009WS001	.07	85 mL	20 mL			
K1005055-006	0510ARLB009WS201	.07	85 mL	20 mL			
K1005055-007	0510ARLB005WS001	.07	85 mL	20 mL			
K1005055-008	0510ARLB002WS001	.07	85 mL	20 mL			
K1005055-008: KQ1004703-11	Duplicate	.07	85 mL	20 mL			
K1005055-008: KQ1004703-01	Matrix Spike	.07	85 mL	20 mL	0.85 mL	18046	
K1005055-008: KQ1004703-02	Duplicate Matrix Spike	.07	85 mL	20 mL	0.85 mL	18046	
K1005055-009	0510ARLB001WS001	.07	85 mL	20 mL			
K1005112-001	CL Well 1	.12	50 mL	20 mL			
K1005112-002	Oxbow Springs	.12	50 mL	20 mL			
K1005207-001	10-05264	.01	2.726 g	20 mL			
K1005207-001: KQ1004703-15	Duplicate	.01	2.710 g	20 mL			

K1005207-001: KQ1004703-16	Duplicate	.01	2.730 g	20 mL			
K1005244-003	D-4-16	.03	2.733 g	20 mL			
K1005244-003: KQ1004703-12	Duplicate	.03	2.710 g	20 mL			
K1005244-003: KQ1004703-13	Matrix Spike	.03	2.507 g	20 mL	0.5 mL	18046	
K1005244-003: KQ1004703-14	Duplicate Matrix Spike	.03	2.560 g	20 mL	0.5 mL	18046	

30 Total Samples consisting of 16 Client Samples, 8 Client QC Samples, 6 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
Cyanide 10 ppm as CN	Spike	18046	6/24/2010	Cyanide Working LCS Total	Spike	18045	6/7/2010
Cyanide LCS Soil	Spike	16255	12/31/2011				

Preparation Materials

Preparation Hardware / Equipment

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Distillation	24-MAY-10 03:00	24-MAY-10 04:30	DLeake		N	

Comments *Water LCS TV = 0.73 mg/L Soil LCS TV = 26.6 mg/kg*

Review

Reviewed by: 

Date: *5/27/10*

K1005244-003: KQ1004703-13	Matrix Spike	.03	2.507			0.5 mL	18046	
K1005244-003: KQ1004703-14	Duplicate Matrix Spike	.03	2.560			0.5 mL	18046	

28 Total Samples consisting of 16 Client Samples, 6 Client QC Samples, 6 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
Cyanide 10 ppm as CN	Spike	18046	6/24/2010	Cyanide Working LCS Total	Spike	18045	6/7/2010
Cyanide LCS Soil	Spike	16255	12/31/2011				

Preparation Materials

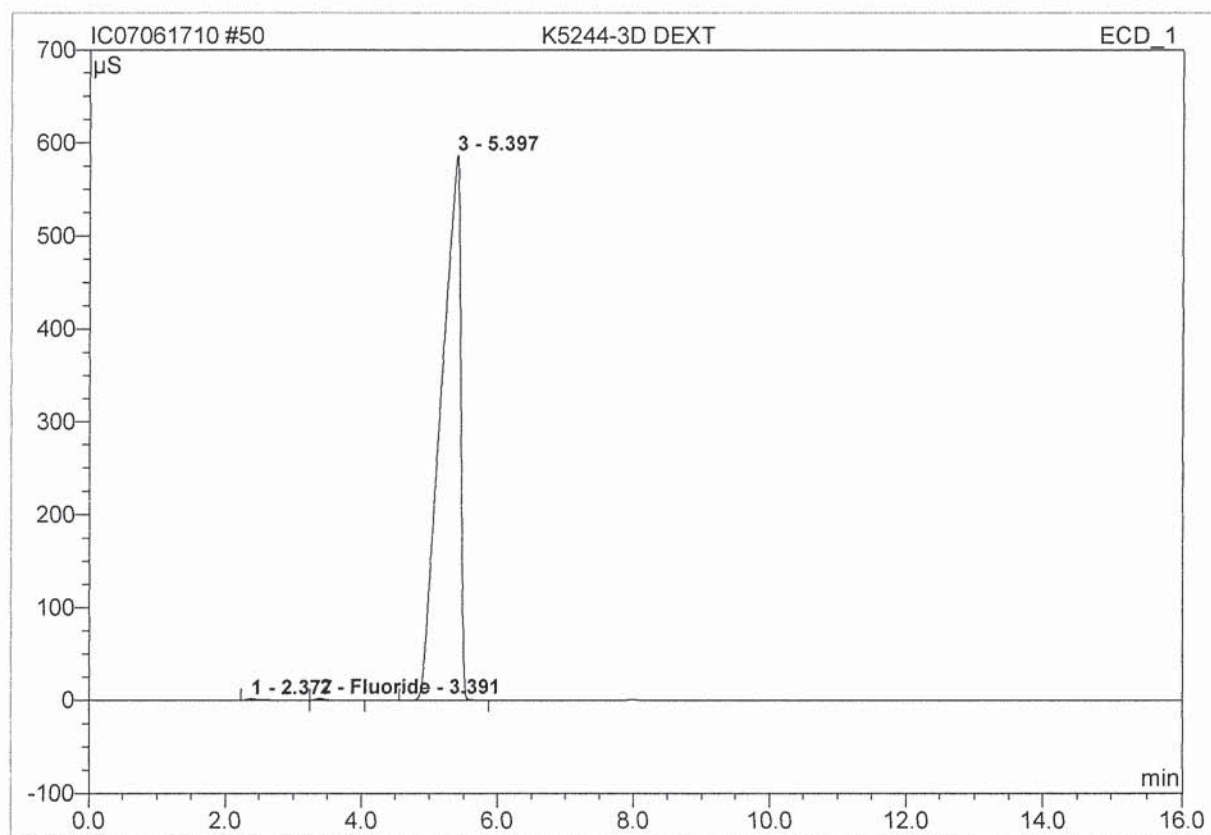
Preparation Hardware / Equipment

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Distillation						

Comments

50 K5244-3D DEXT			
Sample Name:	K5244-3D DEXT	Injection Volume:	25.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	50.0000
Recording Time:	6/17/2010 23:22	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

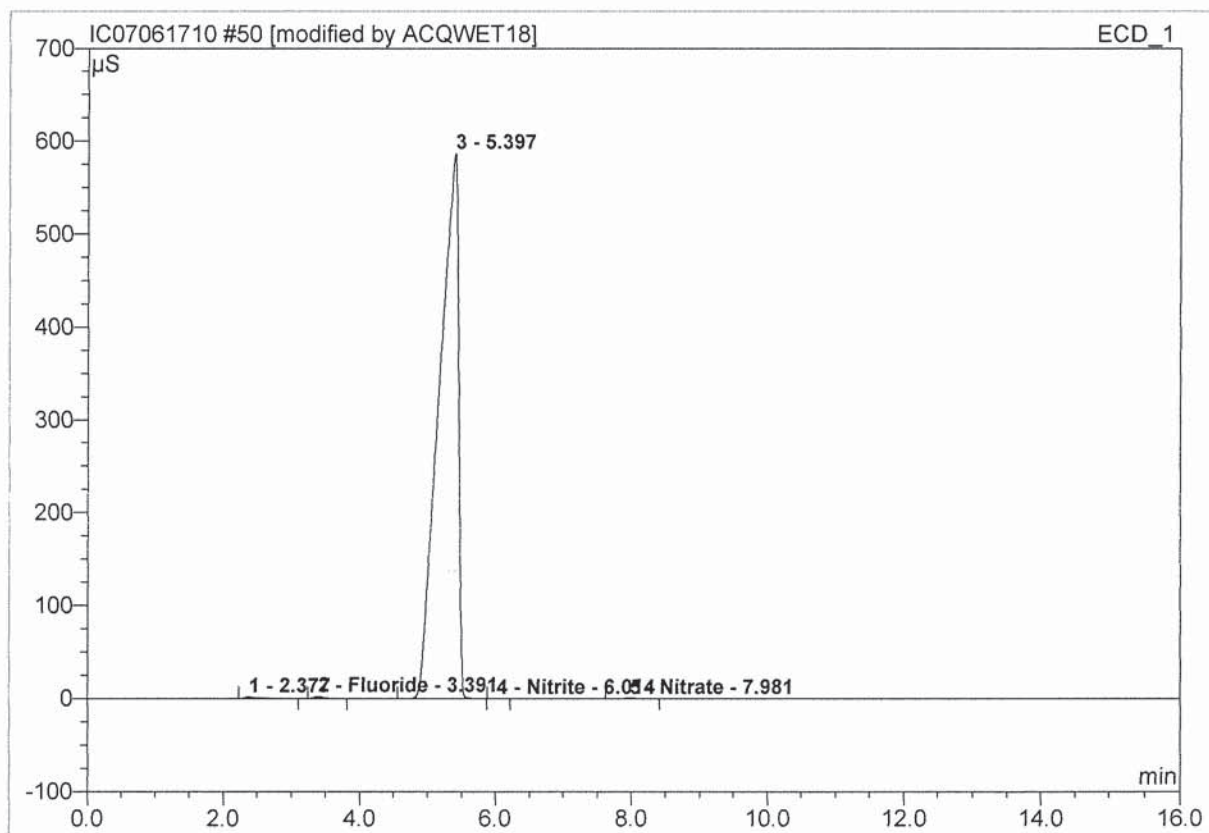


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	2.38	n.a.	1.635	0.295	0.15	n.a.	BM
2	3.39	Fluoride	2.150	0.270	0.14	50.519	MB
3	5.40	n.a.	587.194	193.116	99.71	n.a.	BMB
Total:			590.979	193.681	100.00	50.519	

Before

JUN 18 2010

50 K5244-3D DEXT			
Sample Name:	K5244-3D DEXT	Injection Volume:	25.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	50.0000
Recording Time:	6/17/2010 23:22	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



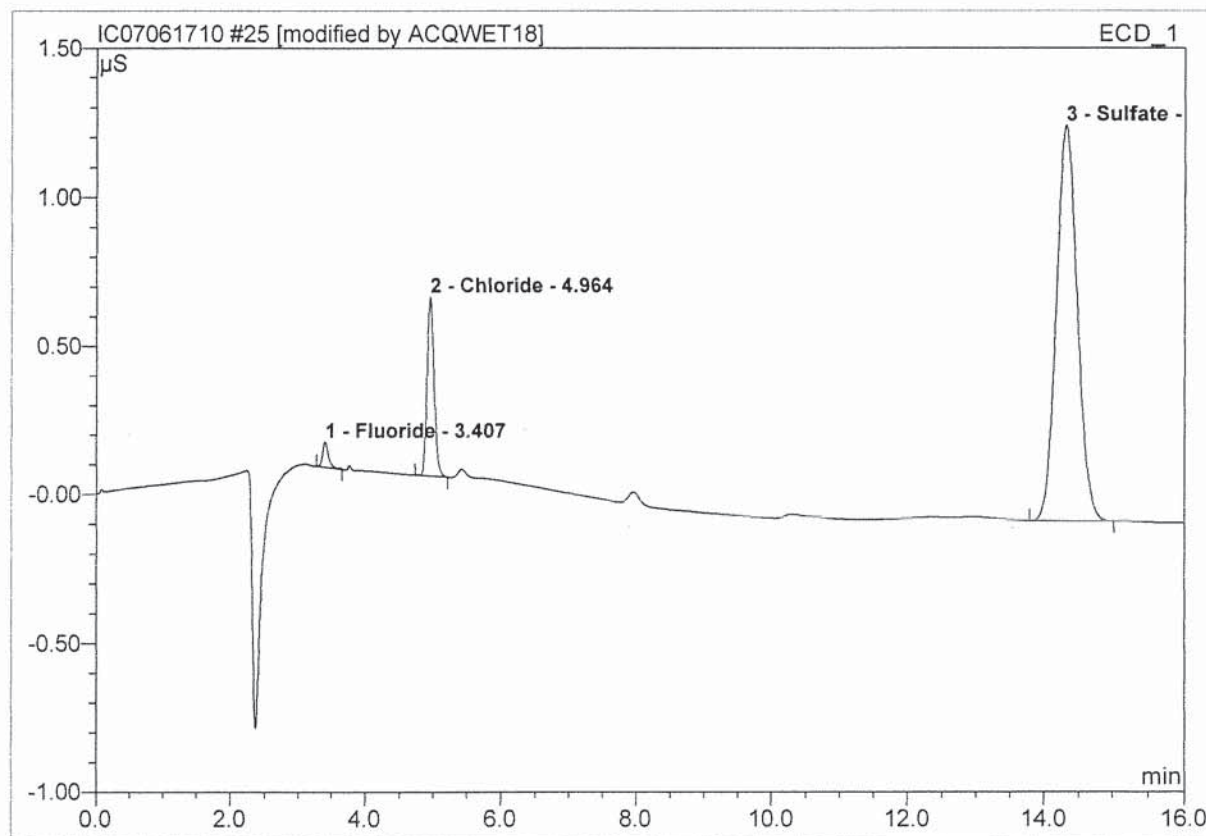
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.38	n.a.	1.627	0.270	0.14	n.a.	BMB*
2	3.39	Fluoride	2.121	0.253	0.13	47.204	BMB*
3	5.40	n.a.	587.194	193.116	99.70	n.a.	BMB
4	6.01	Nitrite	0.028	0.004	0.00	0.513	BMB*
5	7.98	Nitrate	0.256	0.051	0.03	6.079	BMB*
Total:			591.226	193.693	100.00	53.797	

ME

6/21/10

25 K1006121-013

Sample Name:	K1006121-013	Injection Volume:	25.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:06	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

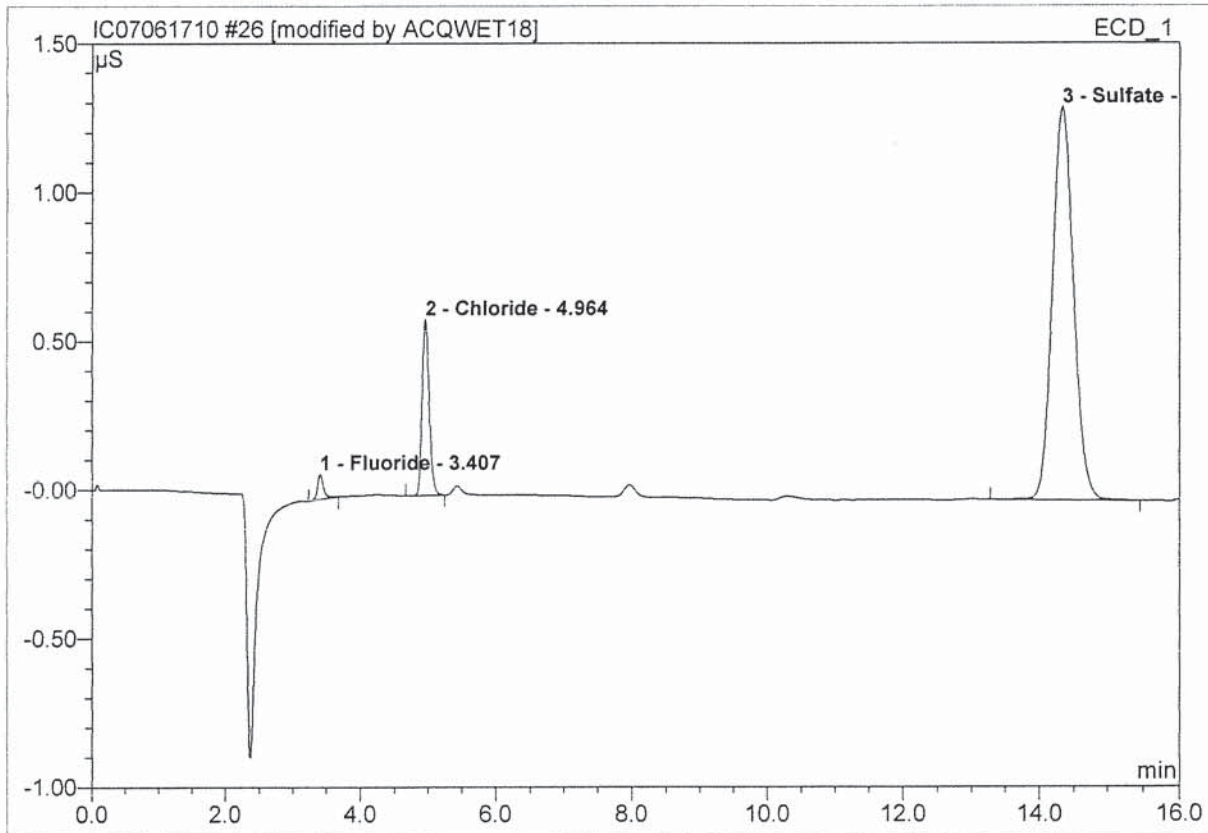


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppm	Type
1	3.41	Fluoride $\bar{x}=0.67$ $\text{RPD}=2\%$	0.084	0.009	1.56	0.065	BMB*
2	4.96	Chloride $\bar{x}=0.87$ $\text{RPD}=2\%$	0.603	0.074	13.25	0.880	BMB*
3	14.33	Sulfate $\bar{x}=8.40$ $\text{RPD}=21\%$	1.329	0.477	85.19	8.376	BMB
Total:			2.016	0.560	100.00	9.322	

VB

6/21/10

26 K1006121-013D			
Sample Name:	K1006121-013D	Injection Volume:	25.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:23	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

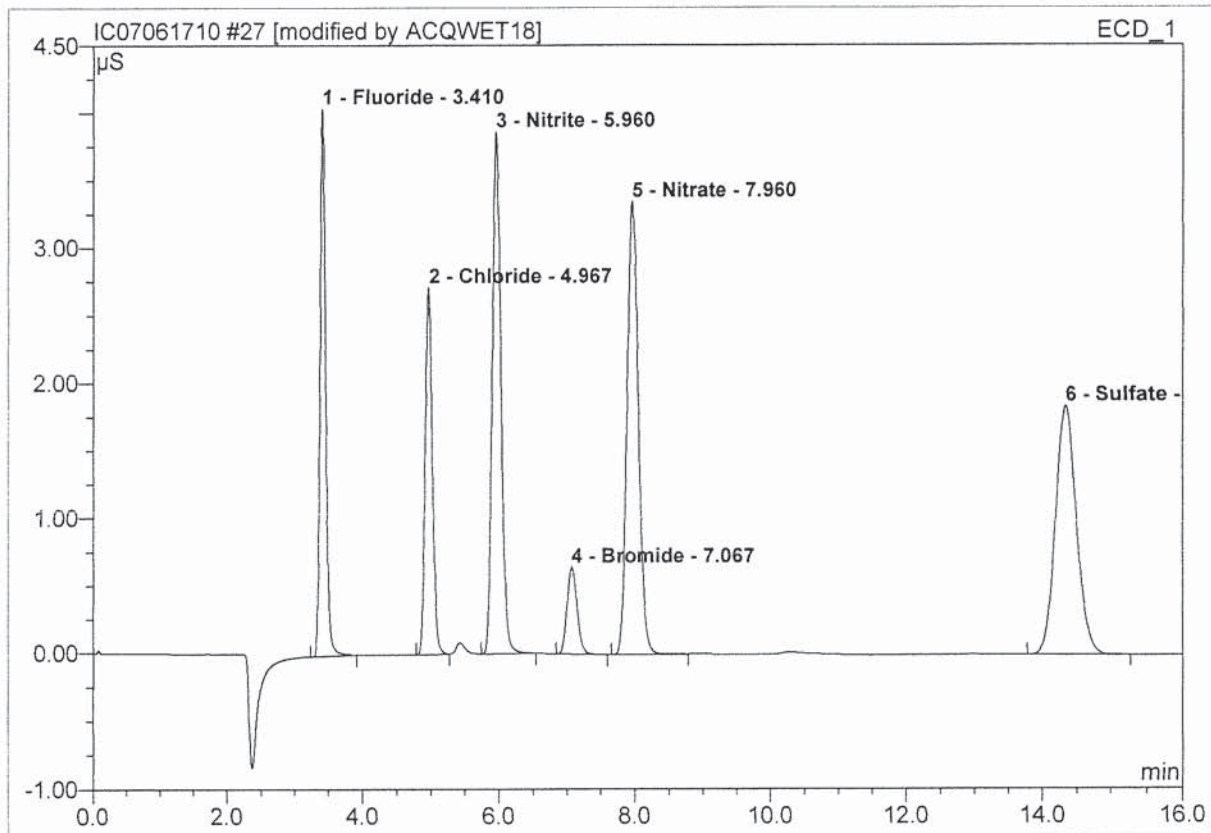


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppm	Type
1	3.41	Fluoride	0.084	0.009	1.58	0.066	BMB*
2	4.96	Chloride	0.591	0.073	12.97	0.863	BMB*
3	14.34	Sulfate	1.321	0.479	85.46	8.418	BMB
Total:			1.996	0.561	100.00	9.347	

M₃

6/21/10

27 K1006121-013MS			
Sample Name:	K1006121-013MS	Injection Volume:	25.0
Vial Number:	20	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:41	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



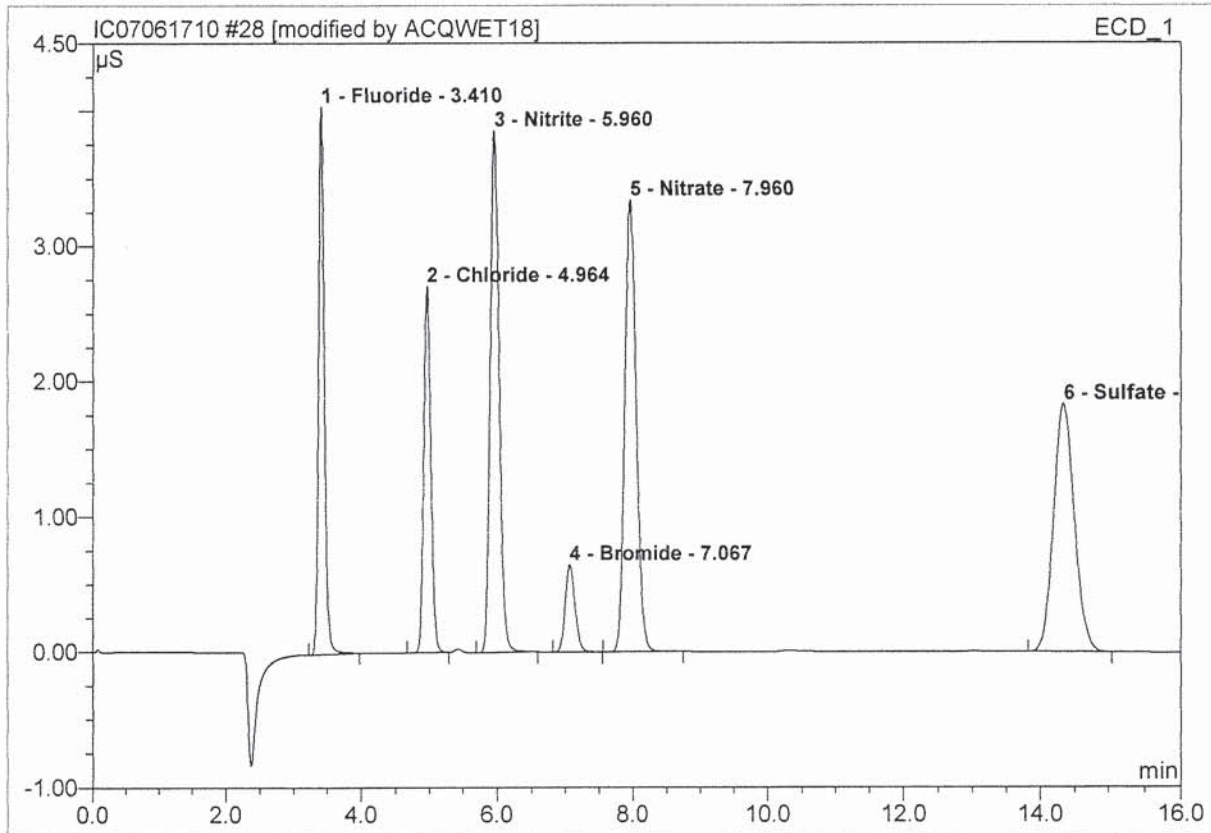
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.41	Fluoride	4.060	0.394	14.50	2.94796?	BMB*
2	4.97	Chloride	2.715	0.331	12.18	3.934162?	BMB*
3	5.96	Nitrite	3.867	0.570	20.96	3.039102?	BMB*
4	7.07	Bromide	0.647	0.111	4.07	3.289110?	BMB
5	7.96	Nitrate	3.355	0.649	23.87	3.122104?	BMB
6	14.34	Sulfate	1.845	0.664	24.41	11.665111?	BMB
Total:			16.489	2.720	100.00	27.995	

TV=3.00

MB

6/21/10

28 K1006121-013MSD			
Sample Name:	K1006121-013MSD	Injection Volume:	25.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:58	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



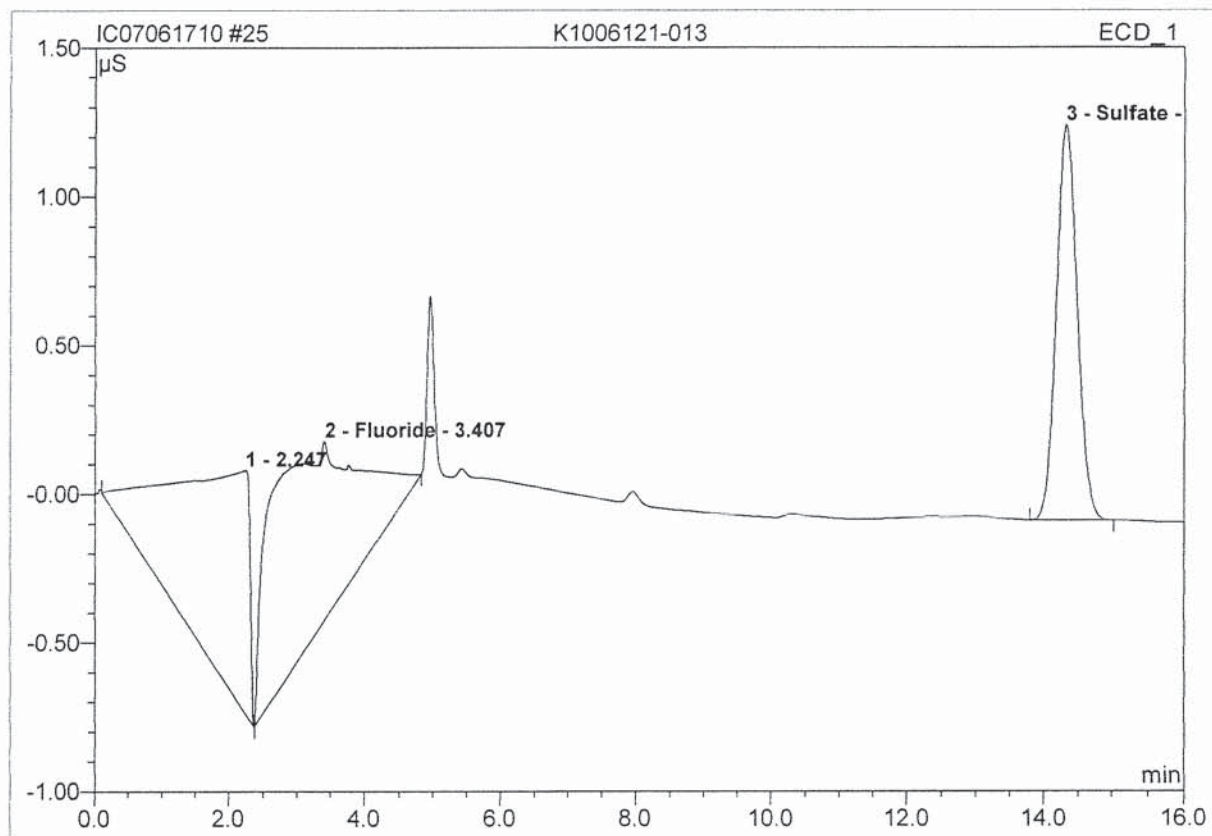
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.41	Fluoride	4.050	0.394	14.55	2.94546 ²	BMB*
2	4.96	Chloride	2.708	0.331	12.22	3.928162 ²	BMB*
3	5.96	Nitrite	3.858	0.569	21.02	3.036101 ²	BMB*
4	7.07	Bromide	0.645	0.110	4.07	3.272109 ²	BMB*
5	7.96	Nitrate	3.343	0.647	23.88	3.110104 ²	BMB
6	14.34	Sulfate	1.834	0.657	24.26	11.547104 ²	BMB
Total:			16.438	2.708	100.00	27.837	

TV=3.00

18

06/21/10

25 K1006121-013			
Sample Name:	K1006121-013	Injection Volume:	25.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:06	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

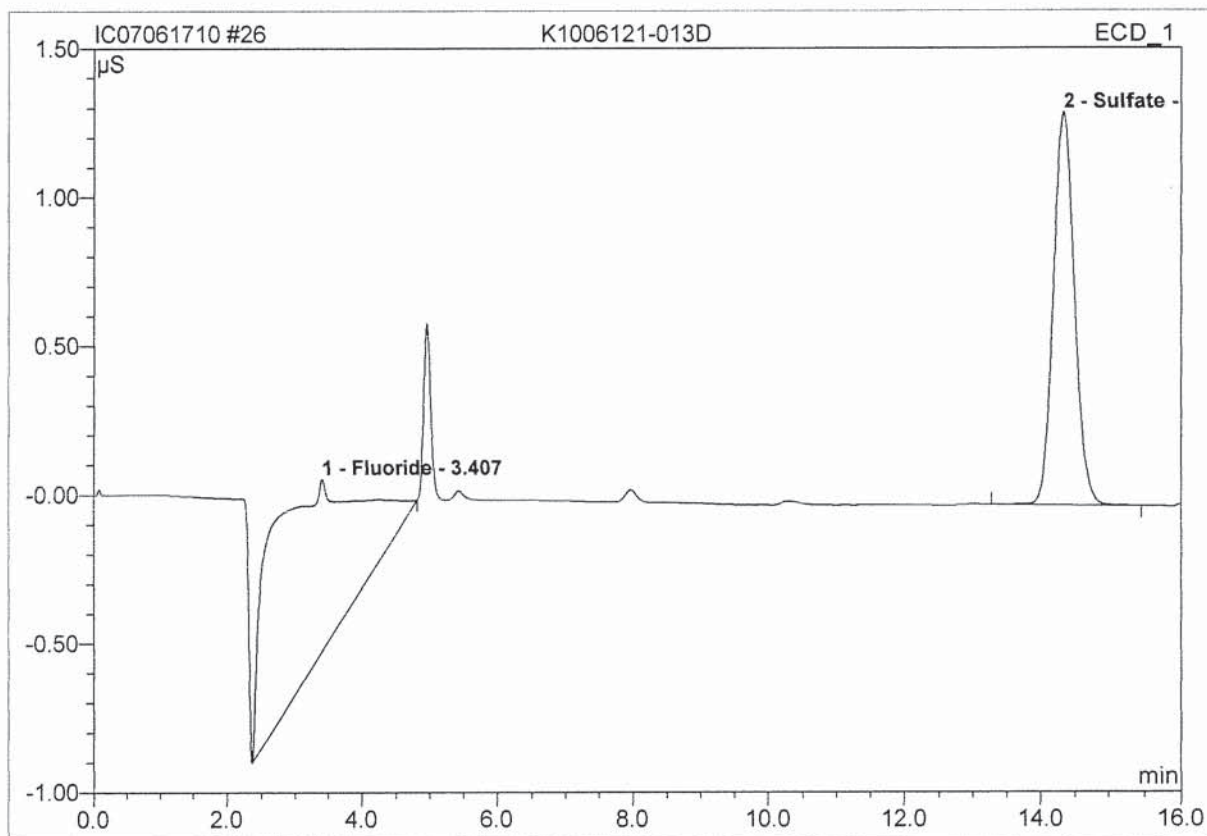


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ppm	Type
1	2.25	n.a.	0.821	0.926	38.59	n.a.	BMB
2	3.41	Fluoride	0.602	0.996	41.53	7.446	BMB
3	14.33	Sulfate	1.329	0.477	19.87	8.376	BMB
Total:			2.751	2.399	100.00	15.822	

RECEIVED
JUN 18 2010

26 K1006121-013D

Sample Name:	K1006121-013D	Injection Volume:	25.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:23	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



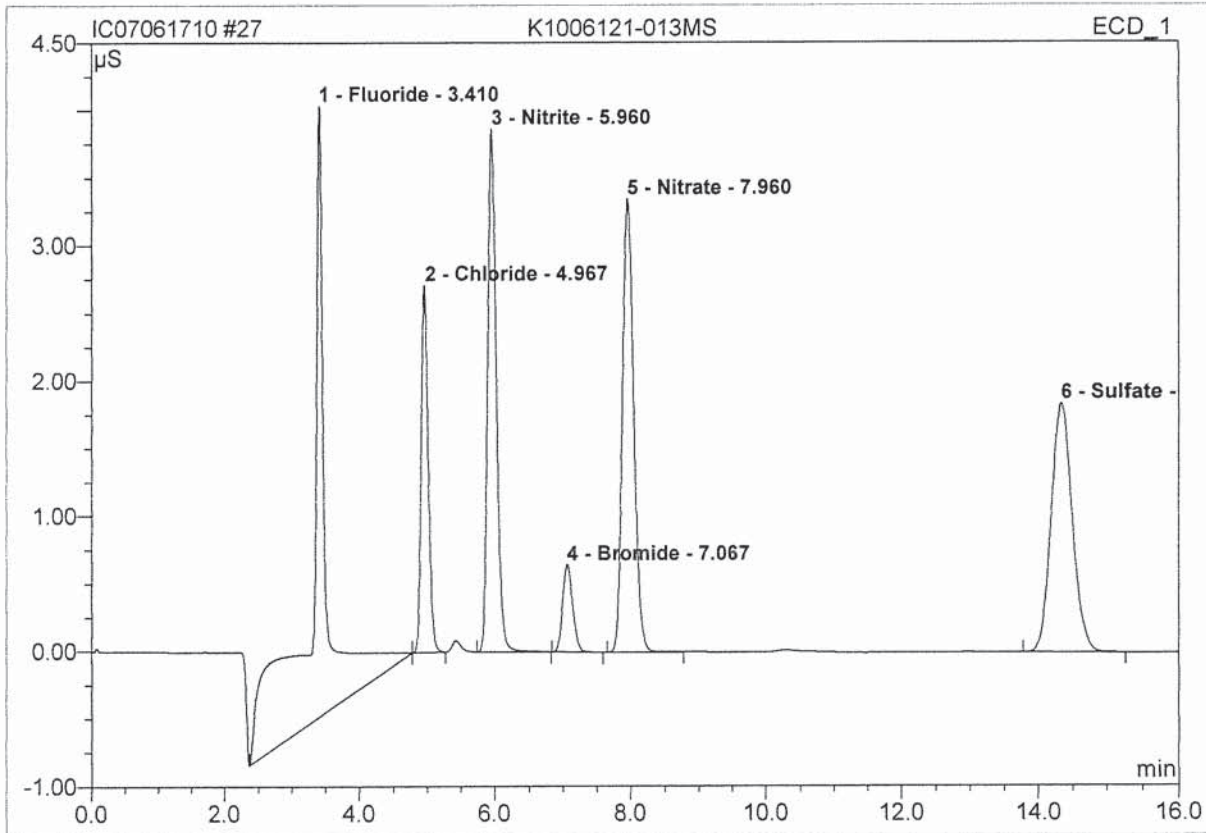
No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount ppm	Type
1	3.41	Fluoride	0.580	0.969	66.91	7.240	BMB
2	14.34	Sulfate	1.321	0.479	33.09	8.418	BMB
Total:			1.901	1.448	100.00	15.657	

ESTER

JUN 18 2010

27 K1006121-013MS

Sample Name:	K1006121-013MS	Injection Volume:	25.0
Vial Number:	20	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:41	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

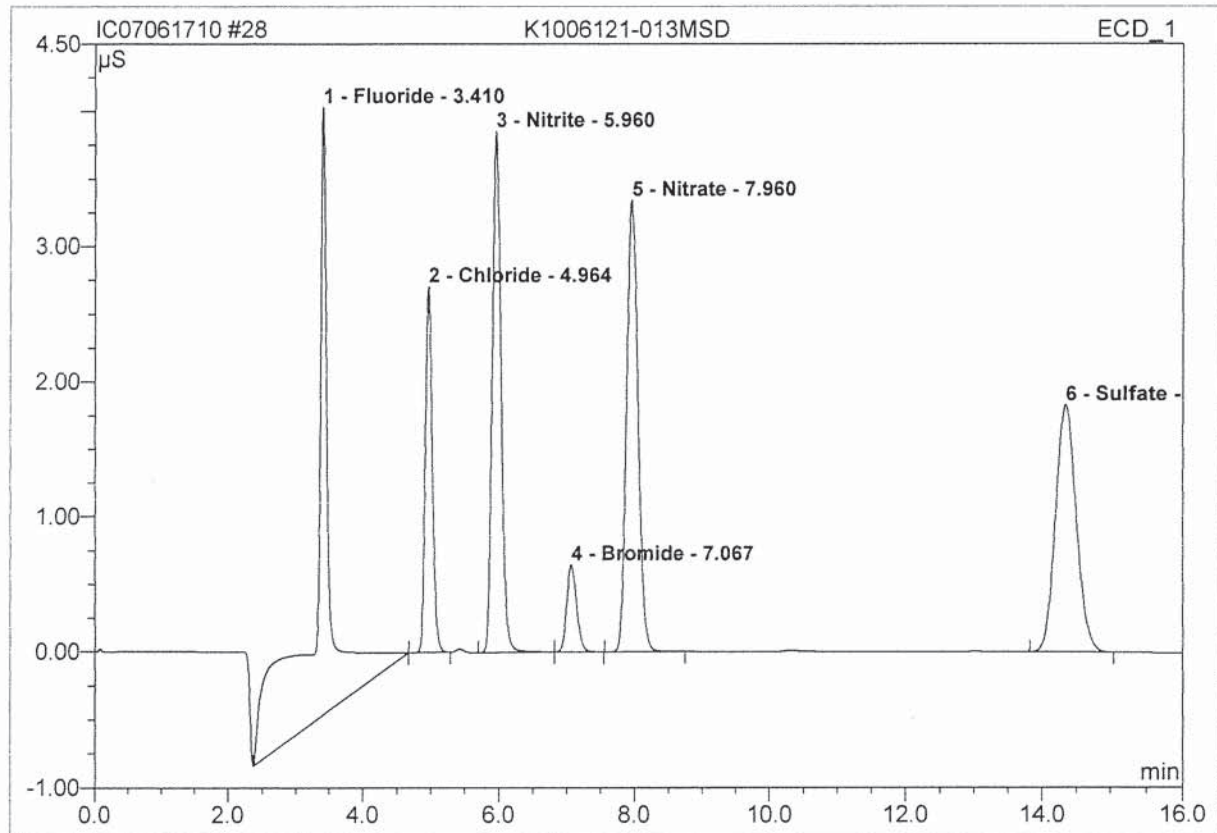


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.41	Fluoride	4.521	1.284	35.53	9.593	BMB
2	4.97	Chloride	2.715	0.331	9.17	3.934	bMB
3	5.96	Nitrite	3.869	0.573	15.87	3.057	BMB
4	7.07	Bromide	0.647	0.111	3.07	3.289	BMB
5	7.96	Nitrate	3.355	0.649	17.97	3.122	BMB
6	14.34	Sulfate	1.845	0.664	18.38	11.665	BMB
Total:			16.952	3.612	100.00	34.659	

Before

JUN 13 2010

28 K1006121-013MSD			
Sample Name:	K1006121-013MSD	Injection Volume:	25.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 16:58	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.41	Fluoride	4.495	1.241	34.89	9.276	BMB
2	4.96	Chloride	2.708	0.331	9.30	3.928	bMB
3	5.96	Nitrite	3.859	0.571	16.06	3.046	BMB
4	7.07	Bromide	0.645	0.110	3.10	3.272	bMB
5	7.96	Nitrate	3.343	0.647	18.18	3.110	BMB
6	14.34	Sulfate	1.834	0.657	18.47	11.547	BMB
Total:			16.884	3.557	100.00	34.179	

Before

JUN 18 2010

1. Holding times met for all samples analyzed? yes/no/NA
2. Are dilutions within upper limits of the curve? yes/no/NA
3. Are analysis/extraction stickers included on report? yes/no/NA
4. Are detection limits reported correctly? yes/no/NA
5. Are all quality control criteria met? yes/no/NA
 - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
 - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
 - c. Are results for Method Blanks all ND? yes/no/NA
 - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
 - e. Are all exceptions explained? yes/no/NA
6. Are all samples labelled correctly? yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
 G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
 G4 Sample was received past the end of recommended holding time.
 R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
 i MRL is elevated because of matrix interferences and the sample required diluting.
 F Sample filtered primary to analysis.

LCS			
Fluoride	True Value = 13.5 ppm	CAS ID # = <u>AN1-33-D</u>	Expires: <u>6/18/10</u> to 7/19/10
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>8/10</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>NR</u>	Expires: <u>NR</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-L</u>	Expires: <u>10/28/10</u>
Nitrate	True Value = 21.0 ppm	CAS ID # = <u>AN1-33-E</u>	Expires: <u>7/21/10</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0107-10-02</u>	Expires: <u>8/10</u>

CCV	CAS ID # = <u>AN1-20-DD</u>	Expires <u>6/17/10</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-M</u>	Expires: <u>10/25/10</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-F</u>	Expires: <u>8/5/10</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-N</u>	Expires: <u>NR</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-20-DD</u>	Expires: <u>6/21/10</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-I</u>	Expires: <u>9/9/10</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-G</u>	Expires: <u>8/5/10</u>

Spike			
1.5ppm X dilution factor	CAS ID# = <u>AN1-70-A</u>	Expires <u>6/17/10</u>	
Fluoride	10K CAS ID # = <u>AN1-33-M</u>	Expires: _____	} See 10K CCV ID's
Chloride	10K CAS ID # = <u>AN1-33-F</u>	Expires: _____	
Nitrite	10K CAS ID # = <u>AN1-33-N</u>	Expires: _____	
Bromide	10K CAS ID # = <u>AN1-20-DD</u>	Expires: _____	
Nitrate	10K CAS ID # = <u>AN1-33-I</u>	Expires: _____	
Sulfate	10K CAS ID # = <u>AN1-33-G</u>	Expires: _____	

Analyst: MB Date: 6/17/10
 First Review: MB Date: 6/18/10
 Final Review: MB Date: 6/21/10

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?	
K6121-7	TK				F	2.5/5			✓	
T.A. MDL					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-8					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-9					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-10					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-11					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-12					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-13					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-14					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
-15					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓
16					F			✓		
					CL				✓	
					NO2					
					Br					
					NO3					
					SO4					✓

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K 5821 - 1	11				F				
Battelle					CL	10.1/5			
					NO2				
					Br				
					NO3				
					SO4				
-2					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				
-3					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				
-4					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				
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					CL				
					NO2				
					Br				
					NO3				
					SO4				
-6					F				
					CL				
					NO2				
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					NO3				
					SO4				
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					Br				
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					SO4				
-8					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				
-9					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				
-10					F				
					CL				
					NO2				
					Br				
					NO3				
					SO4				

Service Request	Tier	QC	Hold Time	Due Date	Anion	Initial	Final	QC DILUTION	Done?
K5821-11	II				F				
	CL				NO2				
	Br				NO3	0.1/5			
	NO3				SO4				
	SO4								
-12					F				
	CL				NO2				
	Br				NO3				
	NO3				SO4				
	SO4								
					F				
	CL				NO2				
	Br				NO3				
	NO3				SO4				
	SO4								
					F				
	CL				NO2				
	Br				NO3				
	NO3				SO4				
	SO4								
					F				
	CL				NO2				
	Br				NO3				
	NO3				SO4				
	SO4								
					F				
	CL				NO2				
	Br				NO3				
	NO3				SO4				
	SO4								

Sequence: IC07061710
Operator: ACQWET18

Title:
Datasource: ACQWET18_local
Location: K-IC-07/AUDIT
Timebase: K-IC-07
#Samples: 54

Created: 6/17/2010 8:47:42 AM by ACQWET18
Last Update: 6/17/2010 6:43:35 PM by ACQWET18

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	STD2/LVL2	Standard	1	25.0	300	300	Finished	4/2/2010 2:16:52 PM
2	STD3/LVL3	Standard	2	25.0	300	300	Finished	4/2/2010 2:36:02 PM
3	STD4/LVL4	Standard	3	25.0	300	300	Finished	4/2/2010 2:55:28 PM
4	STD5/LVL5	Standard	4	25.0	300	300	Finished	4/2/2010 3:13:25 PM
5	STD6/LVL6	Standard	5	25.0	300	300	Finished	4/2/2010 3:31:21 PM
6	STD7/LVL7	Standard	6	25.0	300	300	Finished	4/2/2010 3:49:18 PM
7	STD1/LVL1	Standard	7	25.0	300	300	Finished	4/2/2010 4:07:15 PM
8	CCV AN11-20-DD	Unknown	1	25.0	300	300	Finished	6/17/2010 9:43:12 AM
9	CCB	Unknown	2	25.0	300	300	Finished	6/17/2010 10:00:19 AM
10	MB	Unknown	3	25.0	300	300	Finished	6/17/2010 11:43:45 AM
11	CLSO4 ERA#0107-10-02	Unknown	4	25.0	300	300	Finished	6/17/2010 12:01:56 PM
12	CLSO4 DLCS	Unknown	5	25.0	300	300	Finished	6/17/2010 12:19:24 PM
13	F AN1-33-D	Unknown	6	25.0	300	300	Finished	6/17/2010 12:36:50 PM
14	F DLCS	Unknown	7	25.0	300	300	Finished	6/17/2010 12:54:16 PM
15	Br AN1-33-L	Unknown	8	25.0	300	300	Finished	6/17/2010 1:11:42 PM
16	K1006121-007	Unknown	9	25.0	300	300	Finished	6/17/2010 1:29:09 PM
17	RB	Unknown	10	25.0	300	300	Finished	6/17/2010 1:46:37 PM
18	CCV2	Unknown	11	25.0	300	300	Finished	6/17/2010 2:04:02 PM
19	CCB2	Unknown	12	25.0	300	300	Finished	6/17/2010 2:21:28 PM
20	K1006121-008	Unknown	13	25.0	300	300	Finished	6/17/2010 2:38:54 PM
21	K1006121-009	Unknown	14	25.0	300	300	Finished	6/17/2010 2:56:20 PM
22	K1006121-010	Unknown	15	25.0	300	300	Finished	6/17/2010 3:13:47 PM
23	K1006121-011	Unknown	16	25.0	300	300	Finished	6/17/2010 3:31:14 PM
24	K1006121-012	Unknown	17	25.0	300	300	Finished	6/17/2010 3:48:40 PM
25	K1006121-013	Unknown	18	25.0	300	300	Finished	6/17/2010 4:06:07 PM
26	K1006121-013D	Unknown	19	25.0	300	300	Finished	6/17/2010 4:23:34 PM
27	K1006121-013MS	Unknown	20	25.0	300	300	Finished	6/17/2010 4:41:00 PM
28	K1006121-013MSD	Unknown	21	25.0	300	300	Finished	6/17/2010 4:58:27 PM
29	RB	Unknown	22	25.0	300	300	Finished	6/17/2010 5:15:54 PM
30	CCV3	Unknown	23	25.0	300	300	Finished	6/17/2010 5:33:21 PM
31	CCB3	Unknown	24	25.0	300	300	Finished	6/17/2010 5:50:48 PM
32	K1006121-014	Unknown	25	25.0	300	300	Finished	6/17/2010 6:08:15 PM
33	K1006121-015	Unknown	26	25.0	300	300	Finished	6/17/2010 6:25:41 PM
34	K1006121-016	Unknown	27	25.0	300	300	Finished	6/17/2010 6:43:07 PM
35	K1005821-001	Unknown	28	25.0	300	300	Finished	6/17/2010 7:00:34 PM
36	K1005821-002	Unknown	29	25.0	300	300	Finished	6/17/2010 7:18:01 PM
37	K1005821-003	Unknown	30	25.0	300	300	Finished	6/17/2010 7:35:25 PM
38	K1005821-004	Unknown	31	25.0	300	300	Finished	6/17/2010 7:52:52 PM
39	K1005821-005	Unknown	32	25.0	300	300	Finished	6/17/2010 8:10:19 PM
40	K1005821-006	Unknown	33	25.0	300	300	Finished	6/17/2010 8:27:45 PM
41	RB	Unknown	34	25.0	300	300	Finished	6/17/2010 8:45:11 PM
42	CCV4	Unknown	35	25.0	300	300	Finished	6/17/2010 9:02:38 PM

Sequence: IC07061710
Operator: ACQWET18

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Printed: 6/18/2010 3:03:14 PM

Title:
Datasource: ACQWET18_local
Location: K-IC-07\AUDIT
Timebase: K-IC-07
#Samples: 54

Created: 6/17/2010 8:47:42 AM by ACQWET18
Last Update: 6/17/2010 6:43:35 PM by ACQWET18

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1	STD2/LVL2	1.0000	1.0000	1.0000		01	
2	STD3/LVL3	1.0000	1.0000	1.0000		01	
3	STD4/LVL4	1.0000	1.0000	1.0000		01	
4	STD5/LVL5	1.0000	1.0000	1.0000		01	
5	STD6/LVL6	1.0000	1.0000	1.0000		01	
6	STD7/LVL7	1.0000	1.0000	1.0000		01	
7	STD1/LVL1	1.0000	1.0000	1.0000		01	
8	CCV AN11-20-DD	1.0000	1.0000	1.0000		01	
9	CCB	1.0000	1.0000	1.0000		01	
10	MB	1.0000	1.0000	1.0000		01	
11	CLSO4 ERA#0107-10-02	1.0000	1.0000	1.0000		01	
12	CLSO4 DLCS	1.0000	1.0000	1.0000		01	
13	F AN1-33-D	1.0000	2.0000	1.0000		01	
14	F DLCS	1.0000	2.0000	1.0000		01	
15	Br AN1-33-L	1.0000	1.0000	1.0000		01	
16	K1006121-007	1.0000	2.0000	1.0000		01	
17	RB	1.0000	1.0000	1.0000		01	
18	CCV2	1.0000	1.0000	1.0000		01	
19	CCB2	1.0000	1.0000	1.0000		01	
20	K1006121-008	1.0000	2.0000	1.0000		01	
21	K1006121-009	1.0000	2.0000	1.0000		01	
22	K1006121-010	1.0000	2.0000	1.0000		01	
23	K1006121-011	1.0000	2.0000	1.0000		01	
24	K1006121-012	1.0000	2.0000	1.0000		01	
25	K1006121-013	1.0000	2.0000	1.0000		01	
26	K1006121-013D	1.0000	2.0000	1.0000		01	
27	K1006121-013MS	1.0000	2.0000	1.0000		01	
28	K1006121-013MSD	1.0000	2.0000	1.0000		01	
29	RB	1.0000	1.0000	1.0000		01	
30	CCV3	1.0000	1.0000	1.0000		01	
31	CCB3	1.0000	1.0000	1.0000		01	
32	K1006121-014	1.0000	2.0000	1.0000		01	
33	K1006121-015	1.0000	2.0000	1.0000		01	
34	K1006121-016	1.0000	2.0000	1.0000		01	
35	K1005821-001	1.0000	50.0000	1.0000		01	
36	K1005821-002	1.0000	50.0000	1.0000		01	
37	K1005821-003	1.0000	50.0000	1.0000		01	
38	K1005821-004	1.0000	50.0000	1.0000		01	
39	K1005821-005	1.0000	50.0000	1.0000		01	
40	K1005821-006	1.0000	50.0000	1.0000		01	
41	RB	1.0000	1.0000	1.0000		01	
42	CCV4	1.0000	1.0000	1.0000		01	

Sequence: IC07061710
Operator: ACQWET18

Page 3 of 4
Printed: 6/18/2010 3:03:14 PM

Title:
Datasource: ACQWET18_local
Location: K-IC-07\AUDIT
Timebase: K-IC-07
#Samples: 54
Created: 6/17/2010 8:47:42 AM by ACQWET18
Last Update: 6/17/2010 6:43:35 PM by ACQWET18













No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	CCB4	Unknown	36	25.0	300	300	Finished	6/17/2010 9:20:05 PM
44	K1005821-007	Unknown	37	25.0	300	300	Finished	6/17/2010 9:37:31 PM
45	K1005821-008	Unknown	38	25.0	300	300	Finished	6/17/2010 9:54:57 PM
46	K1005821-009	Unknown	39	25.0	300	300	Finished	6/17/2010 10:12:24 PM
47	K1005821-010	Unknown	40	25.0	300	300	Finished	6/17/2010 10:29:50 PM
48	K1005821-011	Unknown	41	25.0	300	300	Finished	6/17/2010 10:47:17 PM
49	K1005821-012	Unknown	42	25.0	300	300	Finished	6/17/2010 11:04:44 PM
50	K5244-3D DEXT	Unknown	43	25.0	300	300	Finished	6/17/2010 11:22:11 PM
51	RB	Unknown	44	25.0	300	300	Finished	6/17/2010 11:39:37 PM
52	CCV5	Unknown	45	25.0	300	300	Finished	6/17/2010 11:57:03 PM
53	CCB5	Unknown	46	25.0	300	300	Finished	6/18/2010 12:14:30 AM
54	SHUTDOWN	Unknown	47	25.0	Shutdown	300	Finished	6/18/2010 12:31:57 AM

Sequence: IC07061710
Operator: ACQWET18

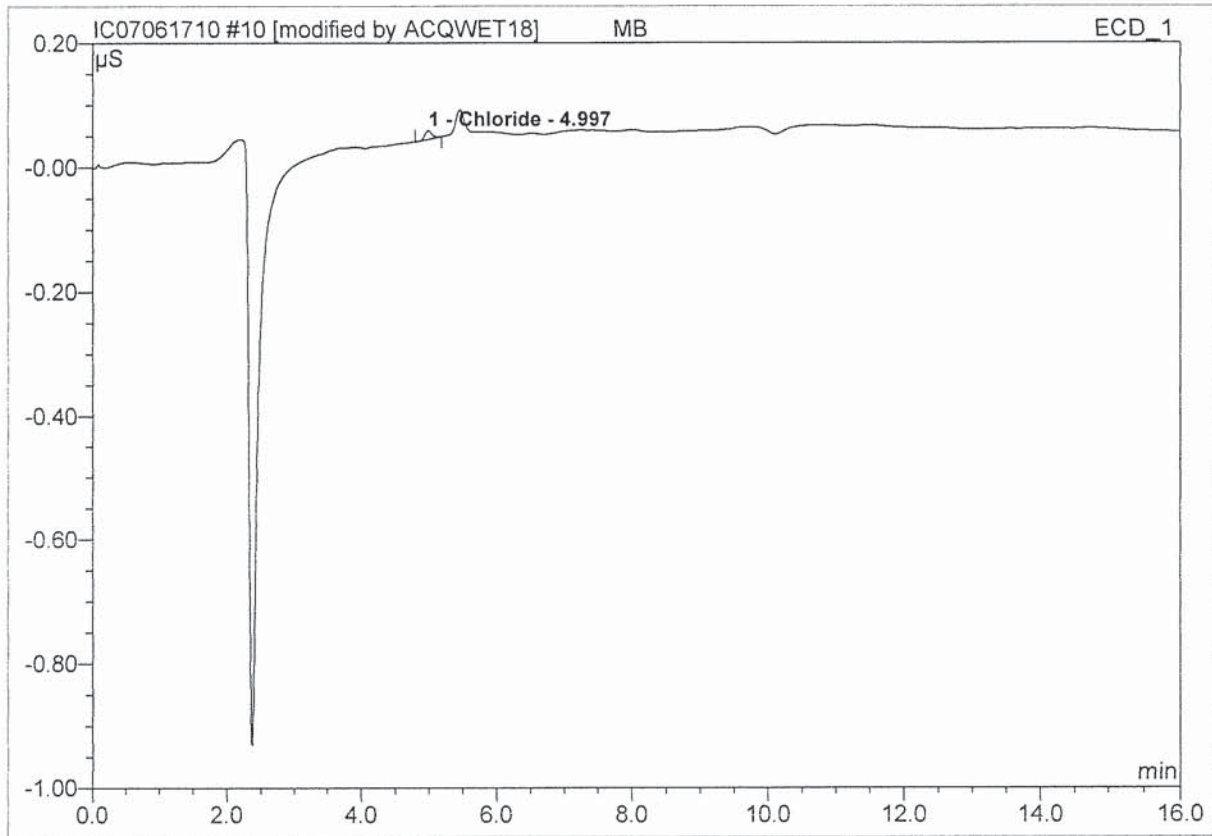
Page 4 of 4
Printed: 6/18/2010 3:03:14 PM

Title:
Datasource: ACQWET18_local
Location: K-IC-07\AUDIT
Timebase: K-IC-07
#Samples: 54

Created: 6/17/2010 8:47:42 AM by ACQWET18
Last Update: 6/17/2010 6:43:35 PM by ACQWET18

No.	Name	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
43	 CCB4	1.0000	1.0000	1.0000		01	
44	 K1005821-007	1.0000	50.0000	1.0000		01	
45	 K1005821-008	1.0000	50.0000	1.0000		01	
46	 K1005821-009	1.0000	50.0000	1.0000		01	
47	 K1005821-010	1.0000	50.0000	1.0000		01	
48	 K1005821-011	1.0000	50.0000	1.0000		01	
49	 K1005821-012	1.0000	50.0000	1.0000		01	
50	 K5244-3D DEXT	1.0000	50.0000	1.0000		01	
51	 RB	1.0000	1.0000	1.0000		01	
52	 CCV5	1.0000	1.0000	1.0000		01	
53	 CCB5	1.0000	1.0000	1.0000		01	
54	 SHUTDOWN	1.0000	1.0000	1.0000		01	

10 MB			
Sample Name:	MB	Injection Volume:	25.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 11:43	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



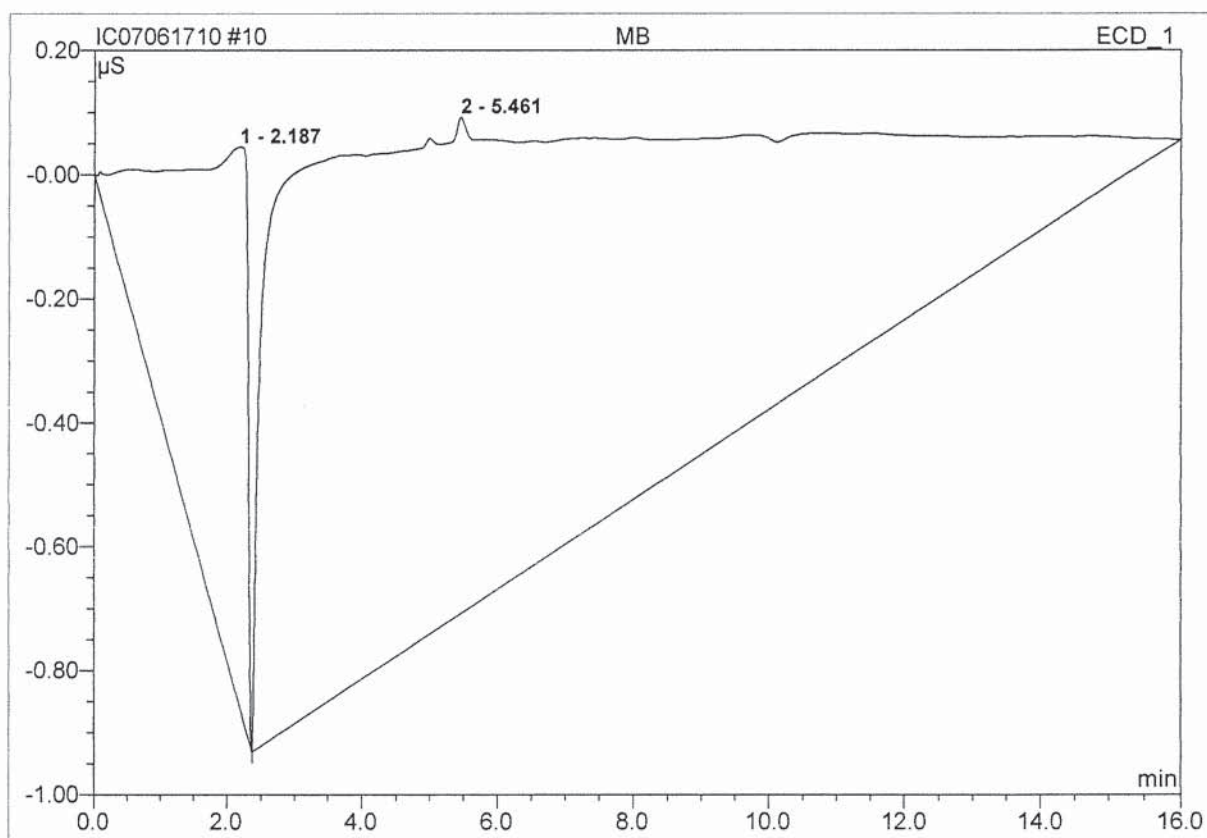
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	5.00	Chloride	0.014	0.002	100.00	0.010	BMB*
Total:			0.014	0.002	100.00	0.010	

MB

6/21/10

10 MB

Sample Name:	MB	Injection Volume:	25.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 11:43	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

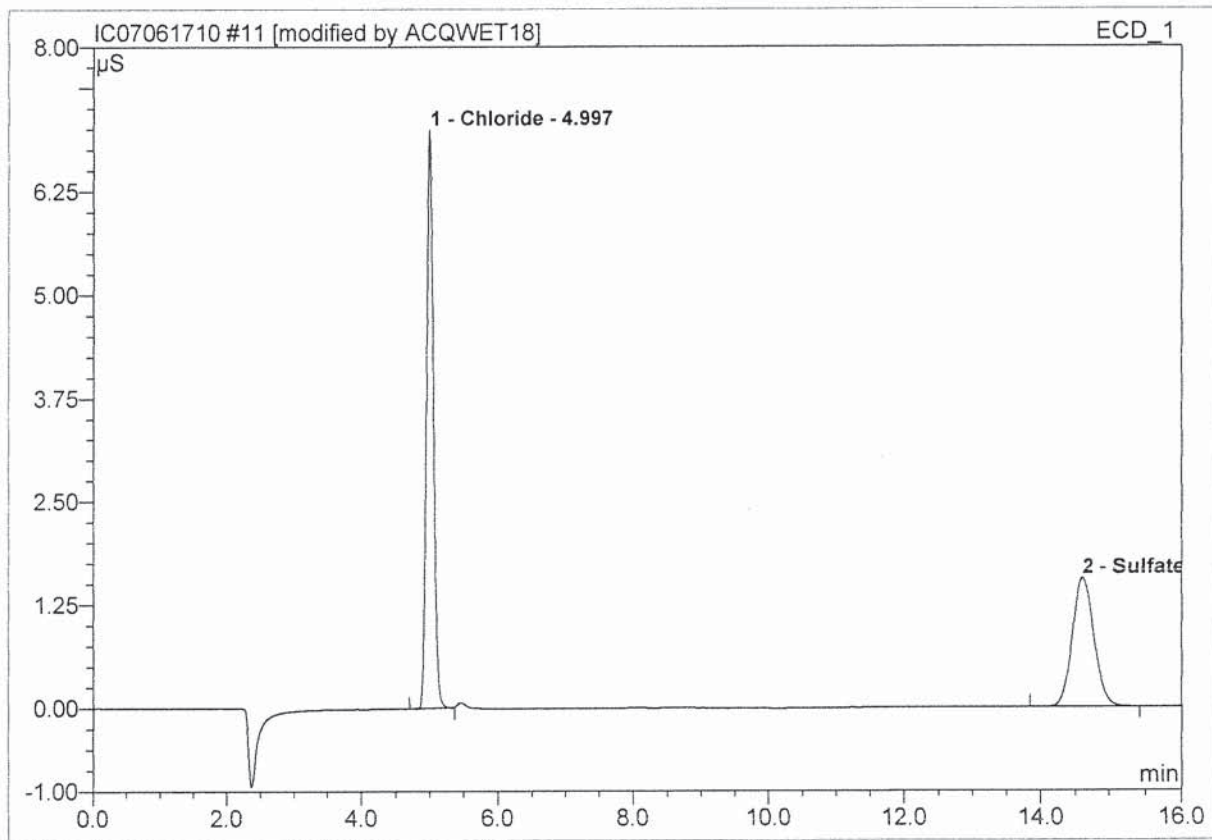


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppm	Type
1	2.19	n.a.	0.904	1.085	14.15	n.a.	BMB
2	5.46	n.a.	0.800	6.586	85.85	n.a.	bMB
Total:			1.704	7.672	100.00	0.000	

Before

JUN 18 2010

11 CLSO4 ERA#0107-10-02			
Sample Name:	CLSO4 ERA#0107-10-02	Injection Volume:	25.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 12:01	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



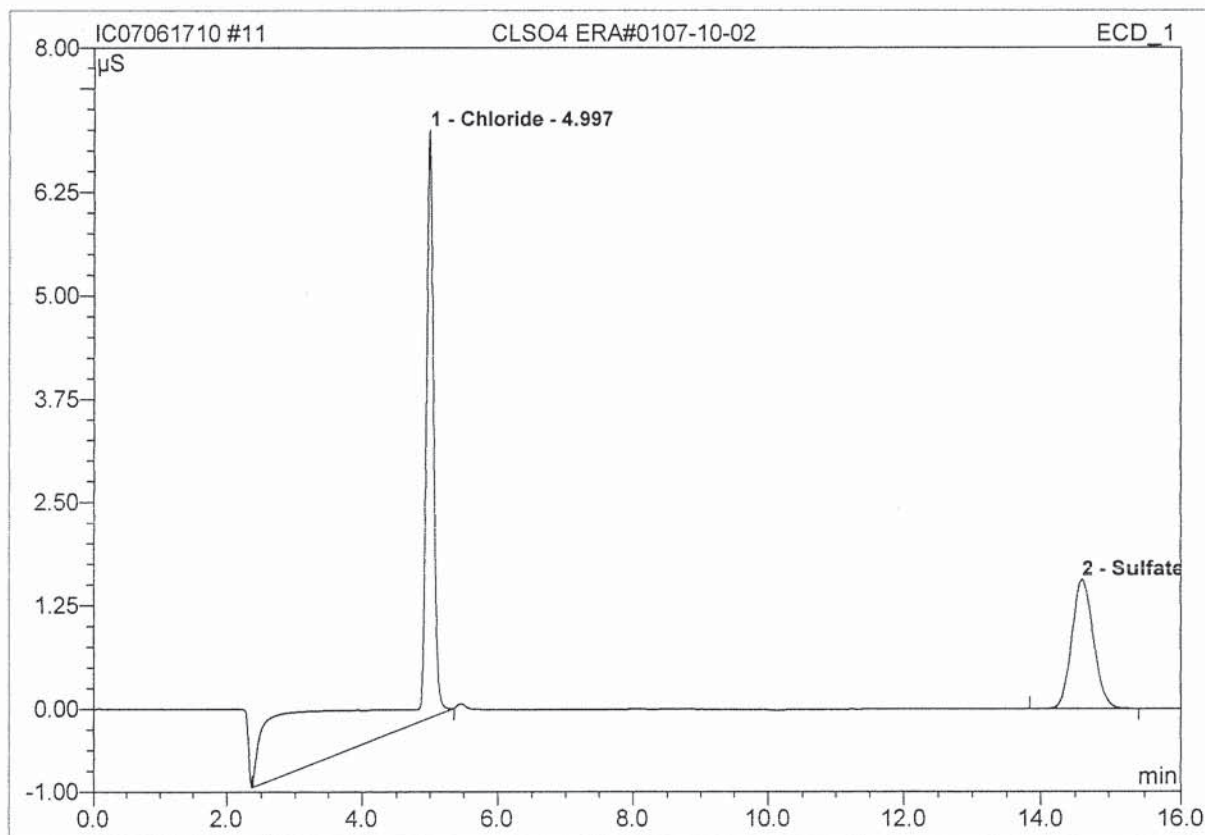
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	5.00	Chloride	6.997	0.834	59.24	4.949	BMB*
2	14.61	Sulfate	1.562	0.574	40.76	5.040	BMB
Total:			8.559	1.407	100.00	9.989	

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11 CLSO4 ERA#0107-10-02

Sample Name:	CLSO4 ERA#0107-10-02	Injection Volume:	25.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 12:01	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



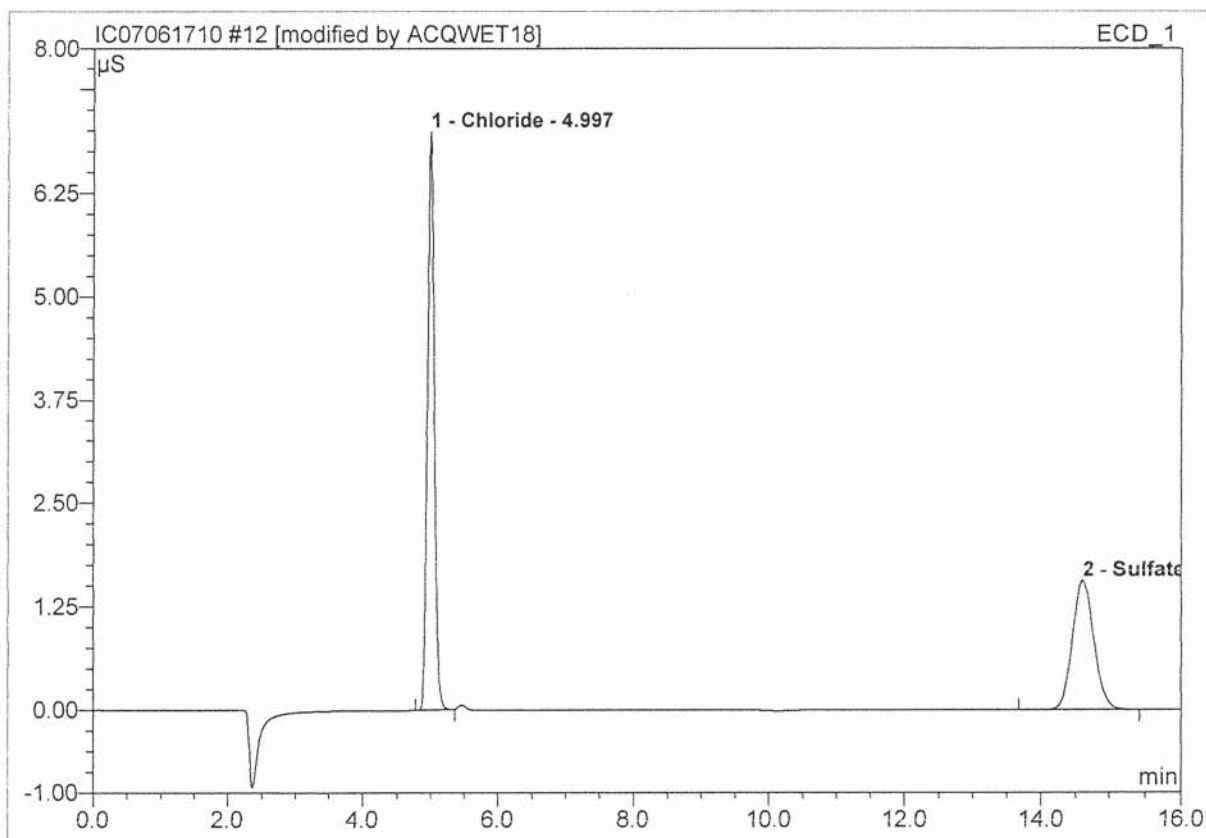
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppm	Type
1	5.00	Chloride	7.102	2.087	78.43	12.386	BMB
2	14.61	Sulfate	1.562	0.574	21.57	5.040	BMB
Total:			8.664	2.660	100.00	17.426	

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12 CLSO4 DLCS

Sample Name:	CLSO4 DLCS	Injection Volume:	25.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 12:19	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

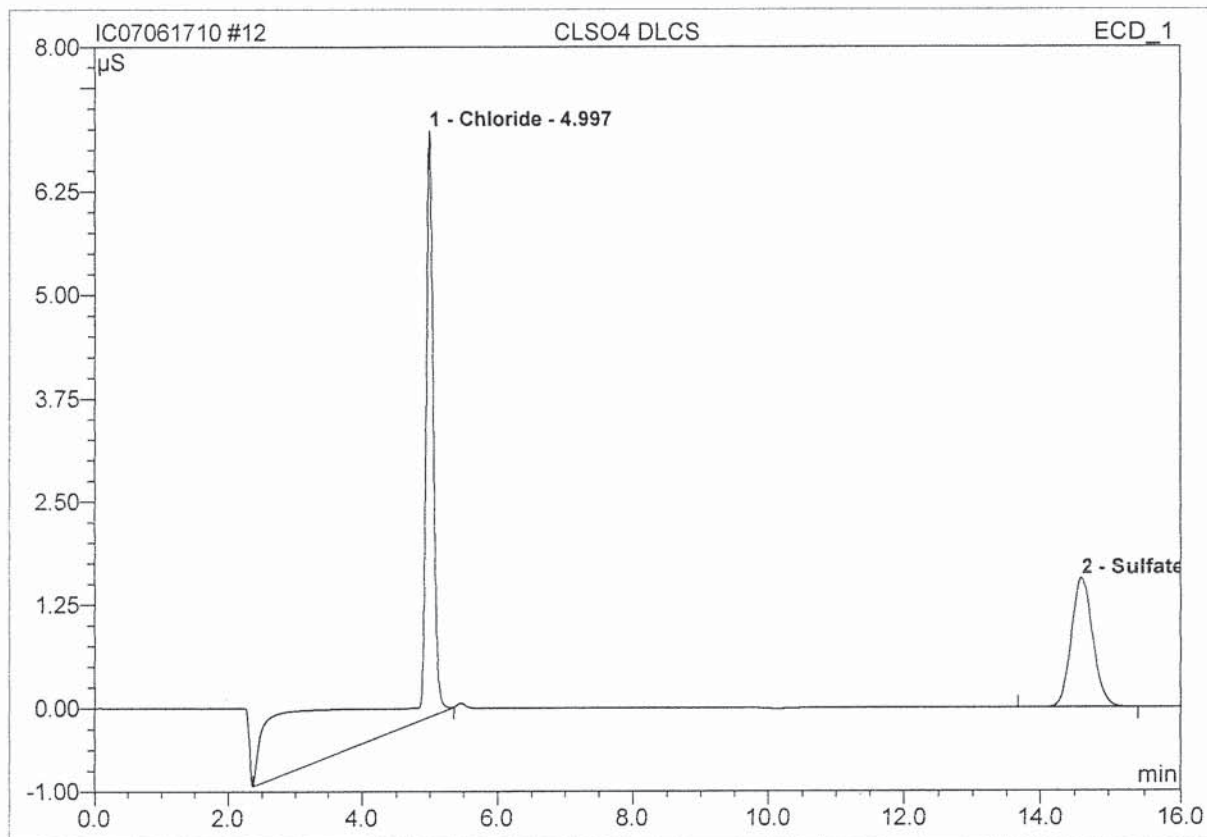


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	5.00	Chloride	6.989	0.833	59.20	4.943	BMB*
2	14.61	Sulfate	1.562	0.574	40.80	5.043	BMB
Total:			8.552	1.407	100.00	9.986	

MS

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12 CLSO4 DLCS			
Sample Name:	CLSO4 DLCS	Injection Volume:	25.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 12:19	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

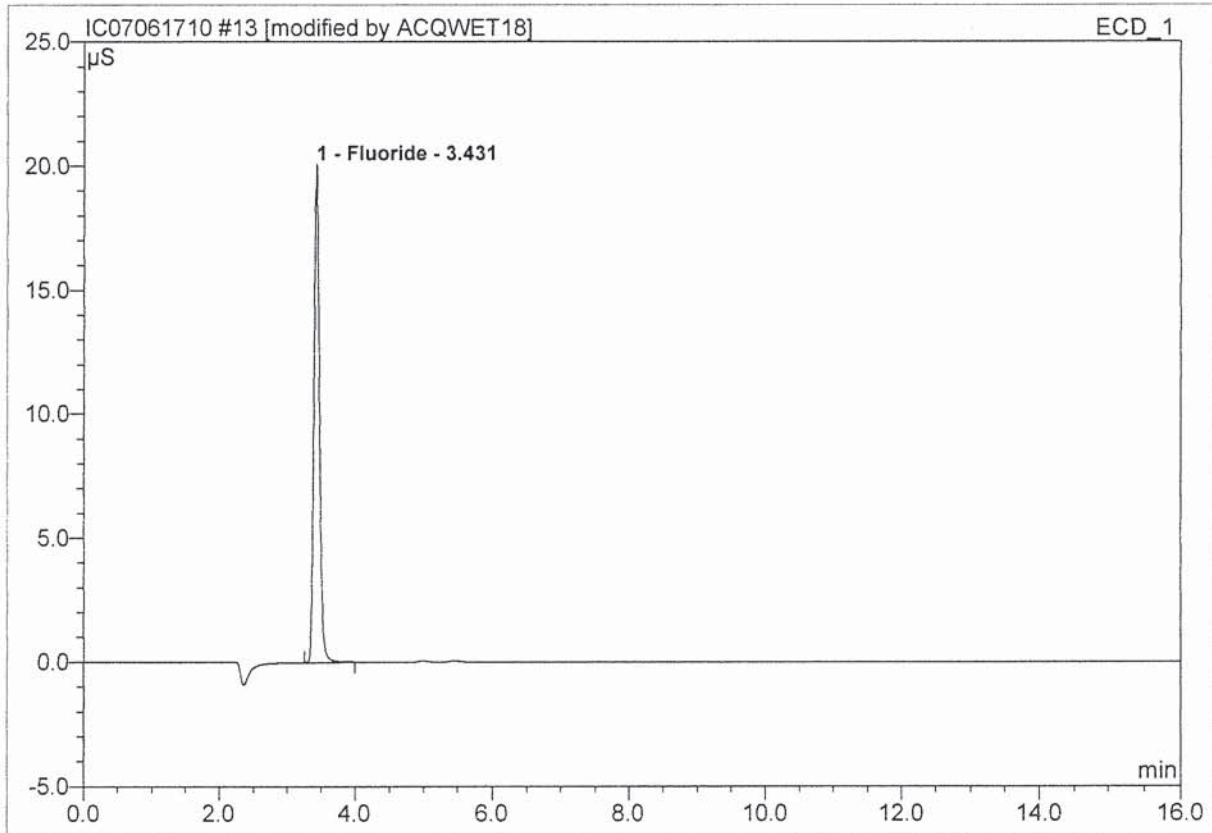


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	5.00	Chloride	7.095	2.087	78.42	12.385	BMB
2	14.61	Sulfate	1.562	0.574	21.58	5.043	BMB
Total:			8.657	2.661	100.00	17.428	

Retoro

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13 F AN1-33-D			
Sample Name:	F AN1-33-D	Injection Volume:	25.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 12:36	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



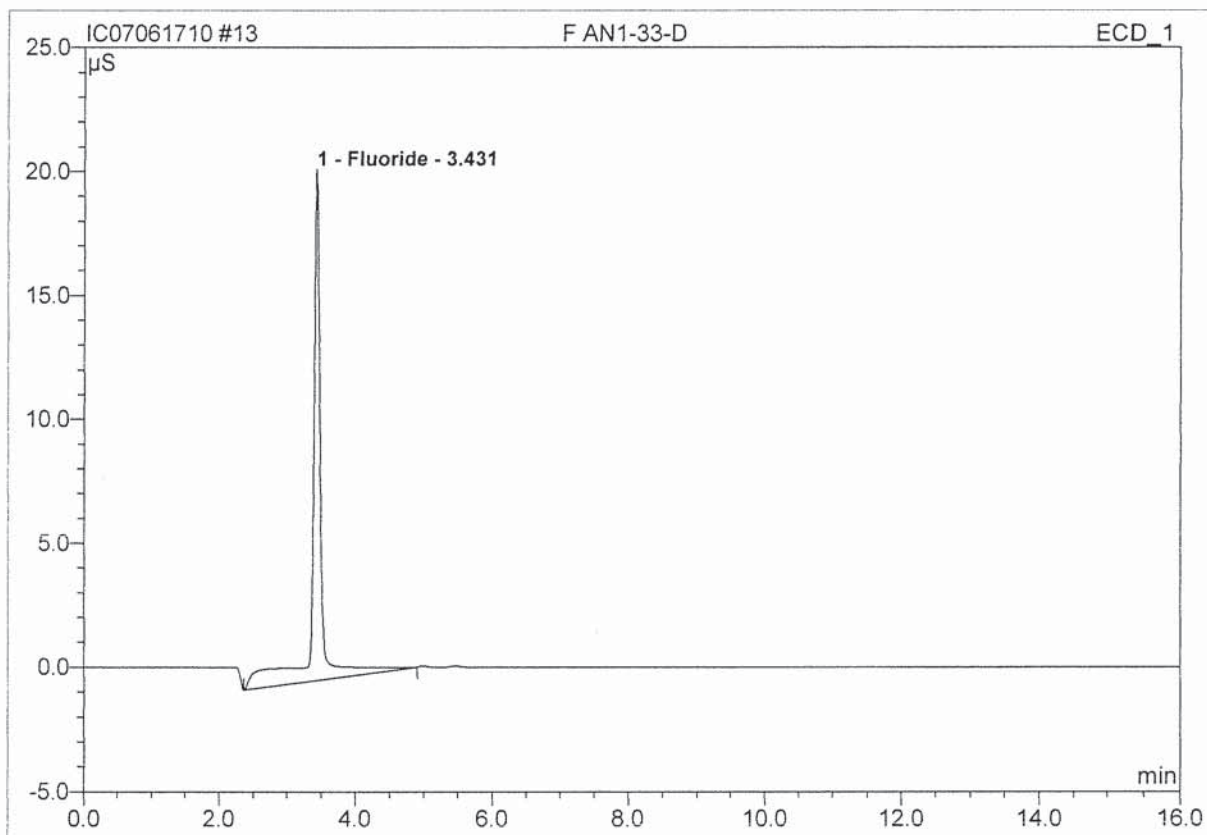
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppm	Type
1	3.43	Fluoride	20.090	1.899	100.00	14.194	BMB*
Total:			20.090	1.899	100.00	14.194	

LB

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13 F AN1-33-D

Sample Name:	F AN1-33-D	Injection Volume:	25.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 12:36	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

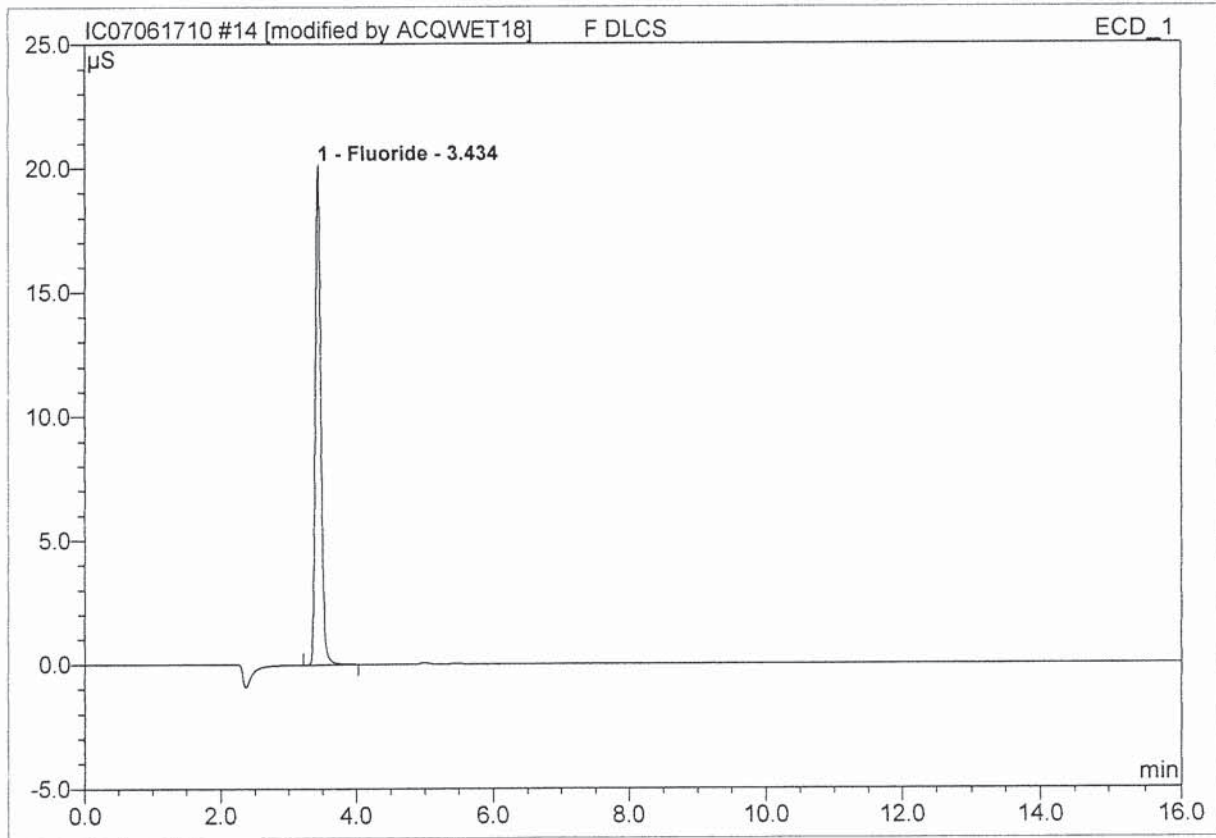


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.43	Fluoride	20.614	2.941	100.00	21.981	BMB
Total:			20.614	2.941	100.00	21.981	

Before

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14 F DLCS			
Sample Name:	F DLCS	Injection Volume:	25.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 12:54	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

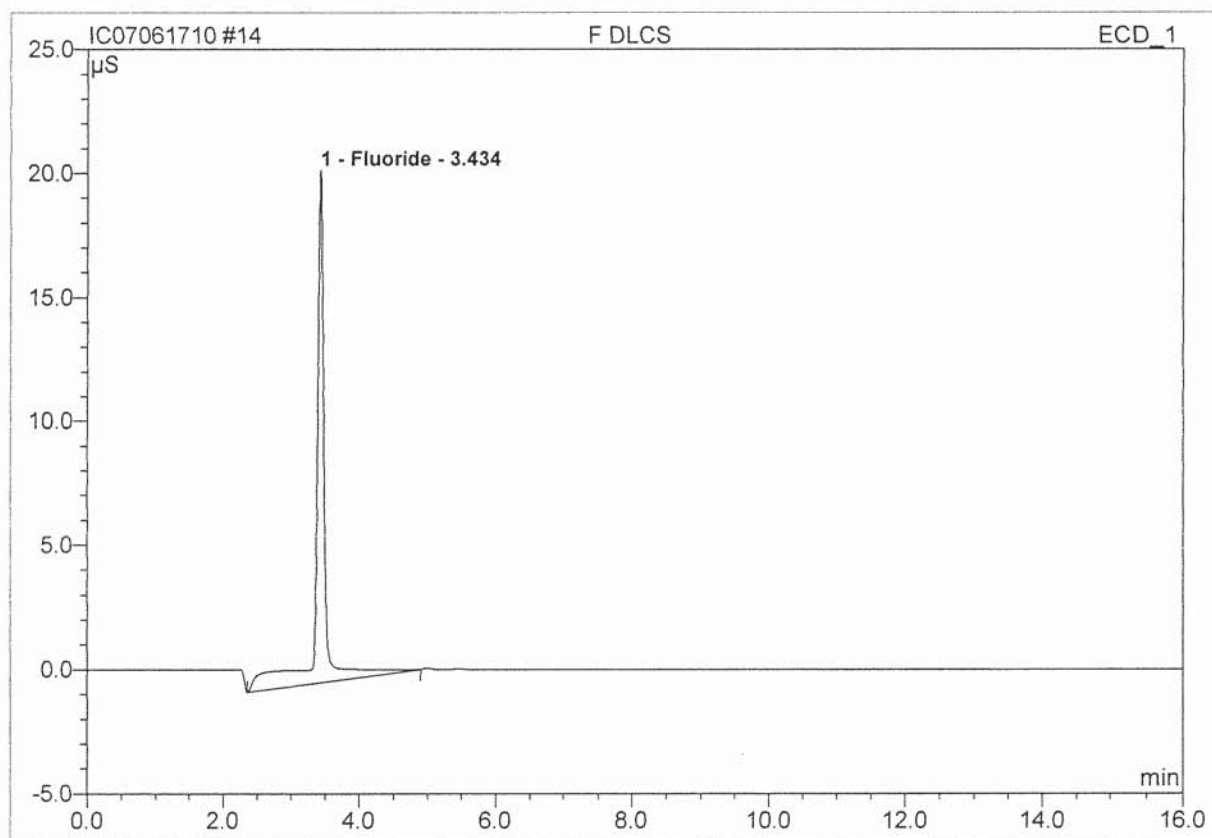


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppm	Type
1	3.43	Fluoride	20.159	1.906	100.00	14.247	BMB*
Total:			20.159	1.906	100.00	14.247	

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14 F DLCS			
Sample Name:	F DLCS	Injection Volume:	25.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	2.0000
Recording Time:	6/17/2010 12:54	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

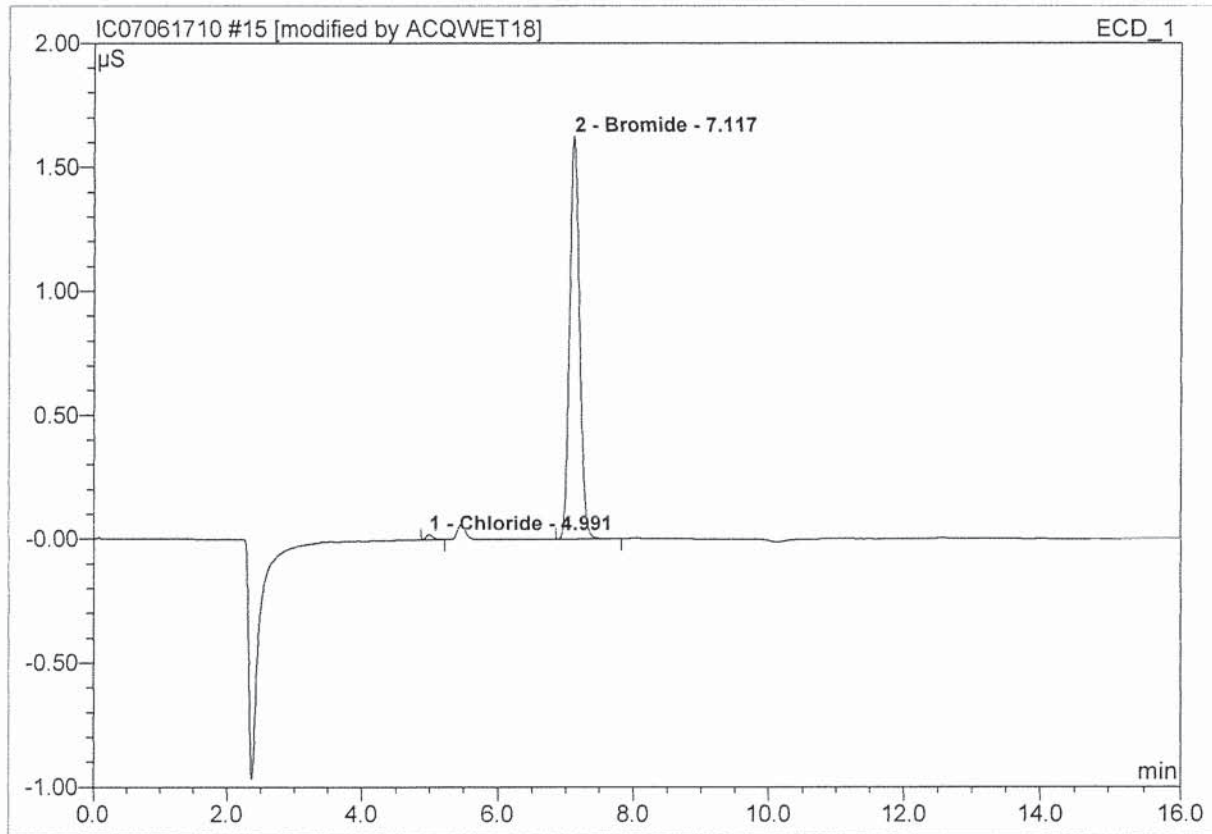


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.43	Fluoride	20.680	2.943	100.00	21.995	BMB
Total:			20.680	2.943	100.00	21.995	

Before

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15 Br AN1-33-L			
Sample Name:	Br AN1-33-L	Injection Volume:	25.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 13:11	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



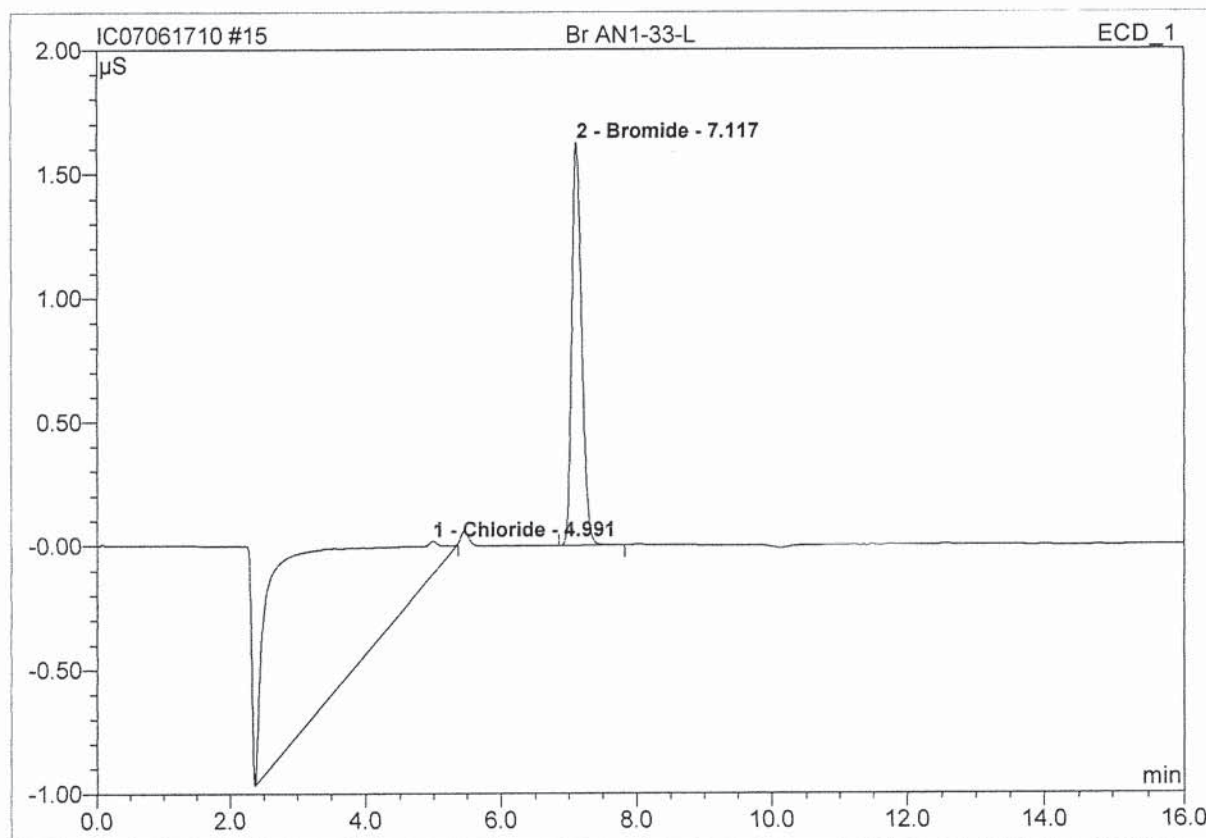
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppm	Type
1	4.99	Chloride	0.021	0.003	0.94	0.016	BMB*
2	7.12	Bromide	1.626	0.277	99.06	4.113	BMB
Total:			1.647	0.280	100.00	4.129	

MS

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15 Br AN1-33-L

Sample Name:	Br AN1-33-L	Injection Volume:	25.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 13:11	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



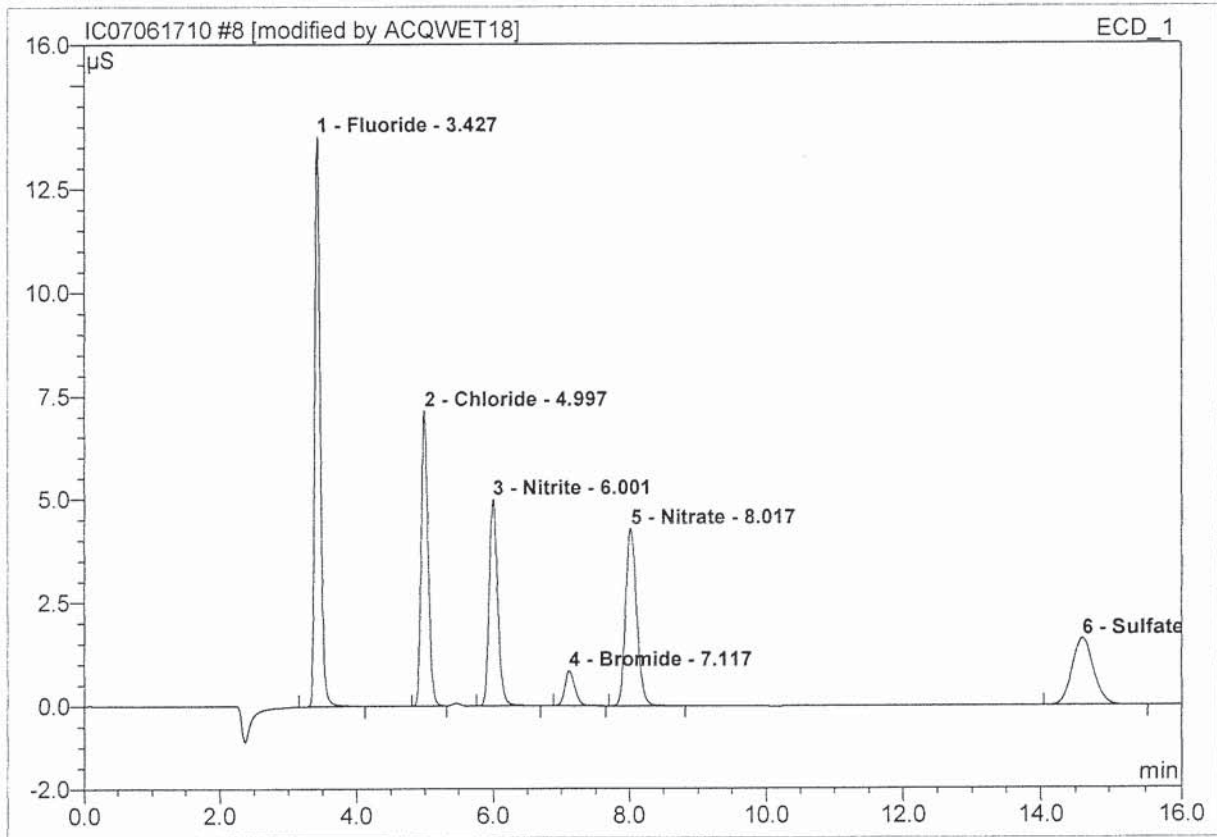
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	4.99	Chloride	0.131	1.293	82.35	7.673	BMB
2	7.12	Bromide	1.626	0.277	17.65	4.113	BMB
Total:			1.756	1.570	100.00	11.786	

Before

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8 CCV AN11-20-DD

Sample Name:	CCV AN11-20-DD	Injection Volume:	25.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 9:43	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



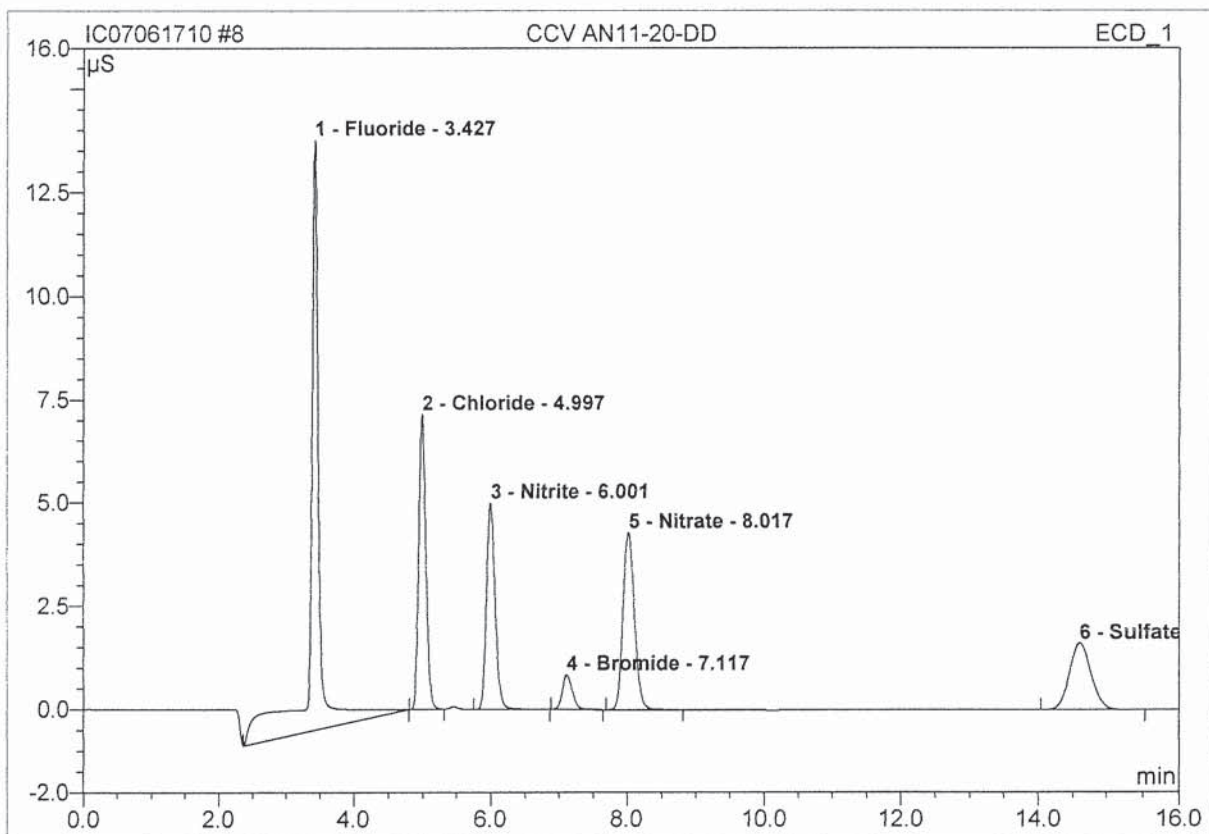
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.43	Fluoride	13.788	1.308	29.36	4.889 ²⁷	BMB*
2	5.00	Chloride	7.148	0.853	19.15	5.066 ¹⁴⁹	BMB*
3	6.00	Nitrite	5.000	0.737	16.53	1.964 ⁸⁷	BMB*
4	7.12	Bromide	0.836	0.142	3.19	2.111 ¹⁰⁴	BMB
5	8.02	Nitrate	4.290	0.824	18.49	1.981 ⁹⁹	BMB
6	14.61	Sulfate	1.615	0.592	13.28	5.197 ¹⁰⁴	BMB
Total:			32.676	4.456	100.00	21.208	

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8 CCV AN11-20-DD

Sample Name:	CCV AN11-20-DD	Injection Volume:	25.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 9:43	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

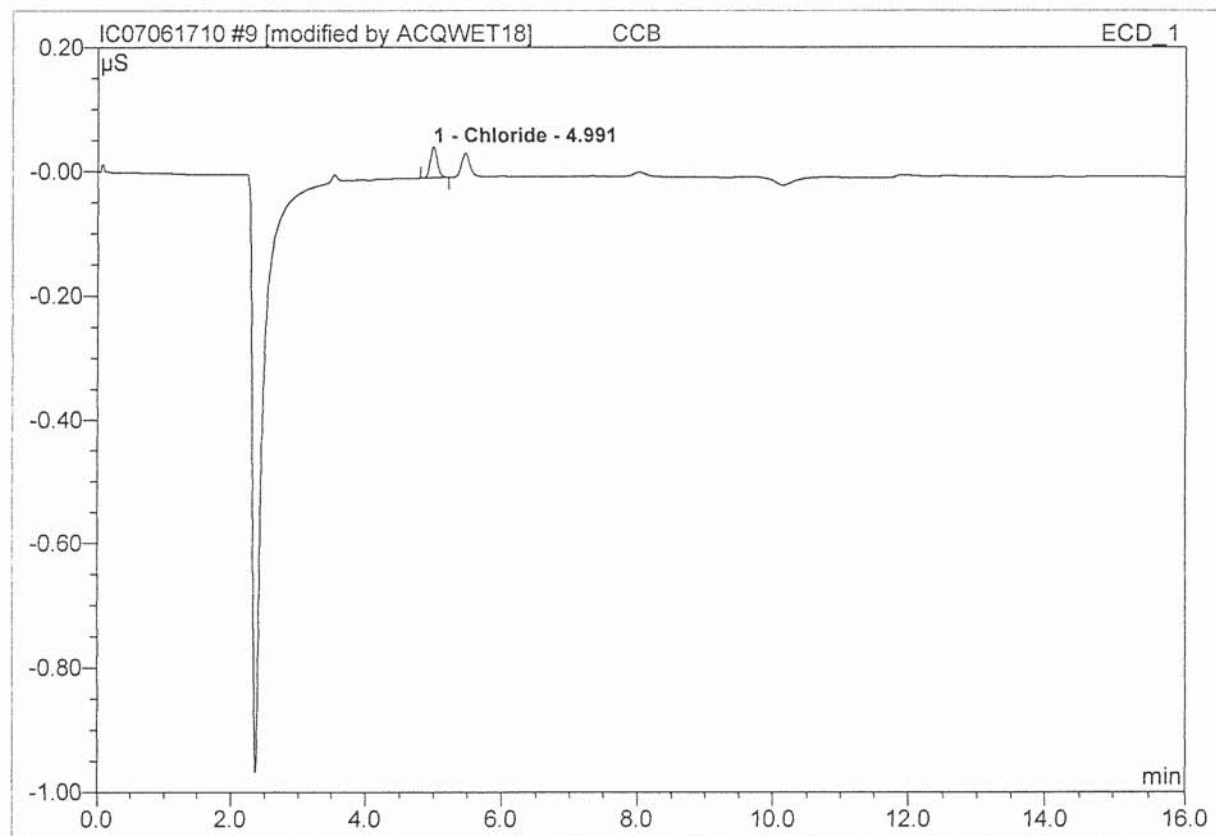


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.43	Fluoride	14.271	2.248	41.65	8.401	BMB
2	5.00	Chloride	7.148	0.853	15.81	5.066	bMB
3	6.00	Nitrite	5.000	0.738	13.67	1.967	BMB
4	7.12	Bromide	0.836	0.142	2.63	2.111	BMB
5	8.02	Nitrate	4.290	0.824	15.27	1.981	BMB
6	14.61	Sulfate	1.615	0.592	10.96	5.197	BMB
Total:			33.160	5.397	100.00	24.723	

Before

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9 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 10:00	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

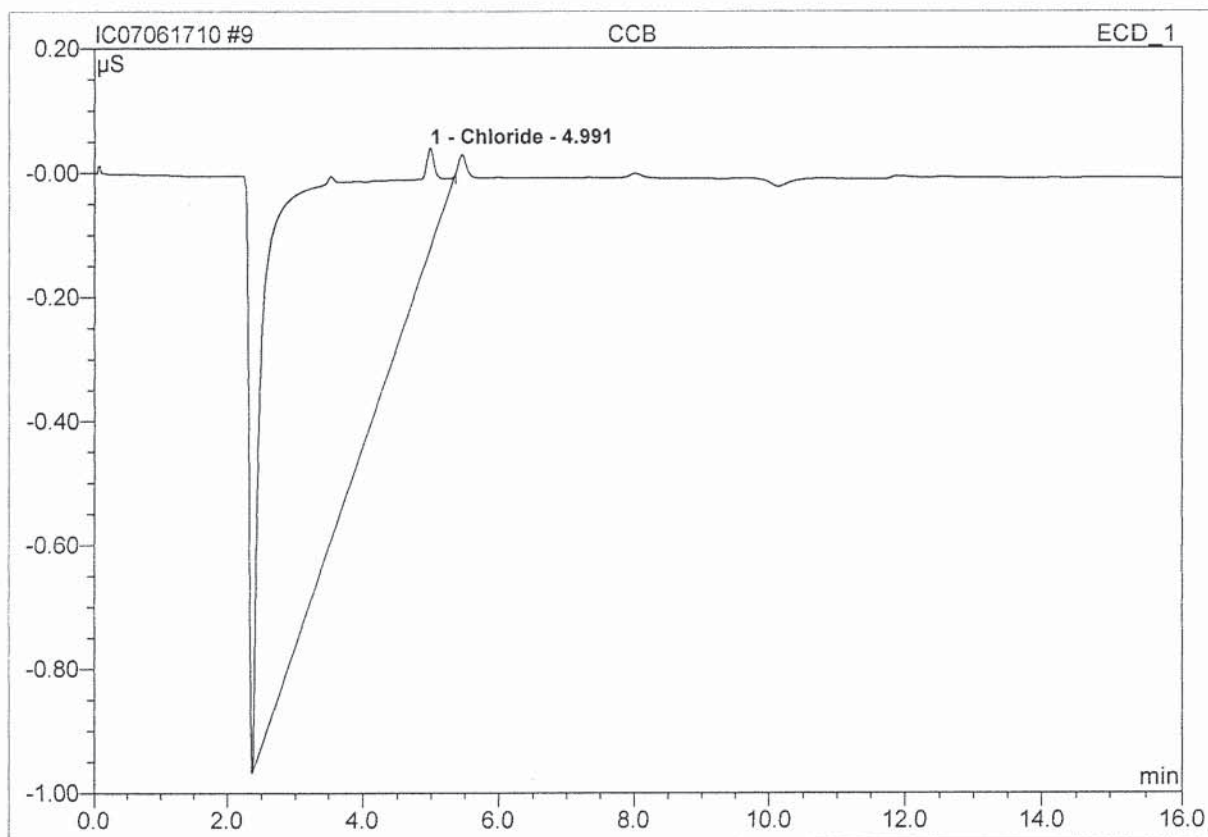


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	4.99	Chloride	0.050	0.006	100.00	0.036	BMB*
Total:			0.050	0.006	100.00	0.036	

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9 CCB			
Sample Name:	CCB	Injection Volume:	25.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 10:00	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

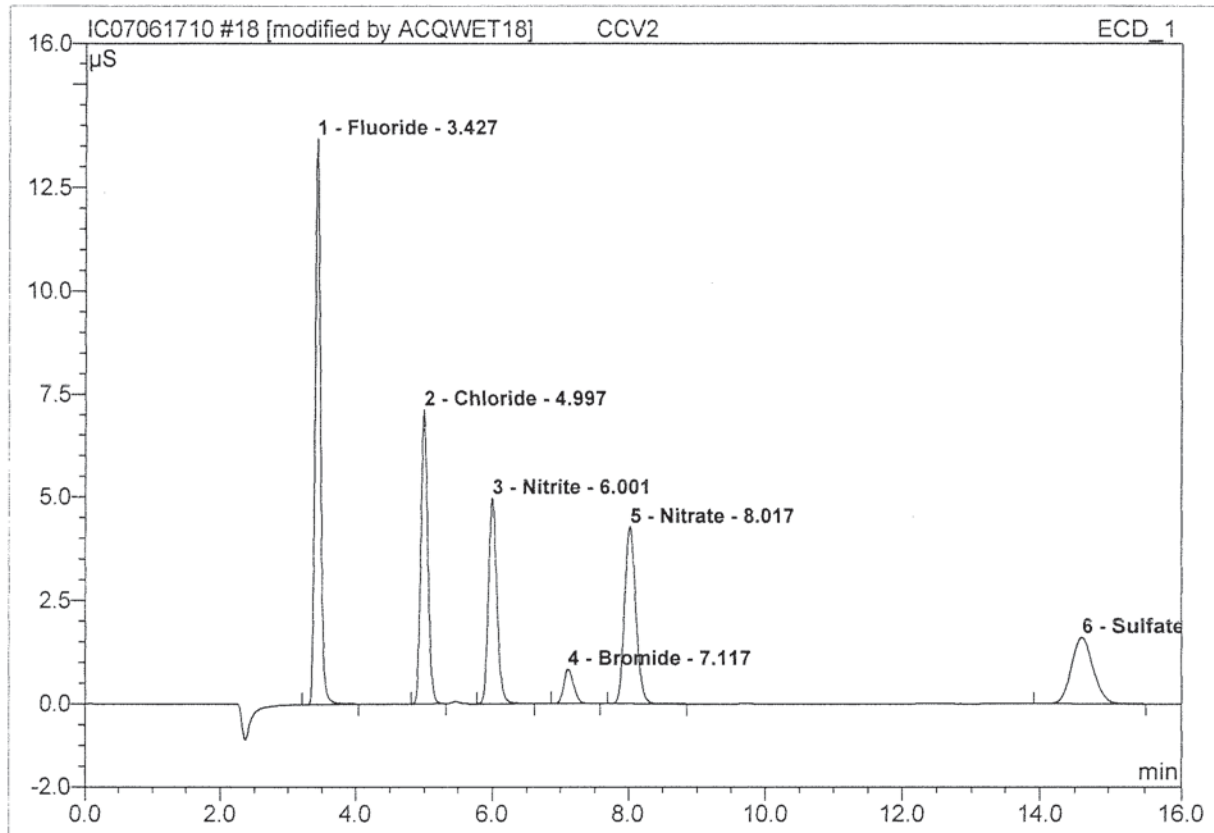


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ppm	Type
1	4.99	Chloride	0.162	1.298	100.00	7.702	BMB
Total:			0.162	1.298	100.00	7.702	

Report:

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18 CCV2			
Sample Name:	CCV2	Injection Volume:	25.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 14:04	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



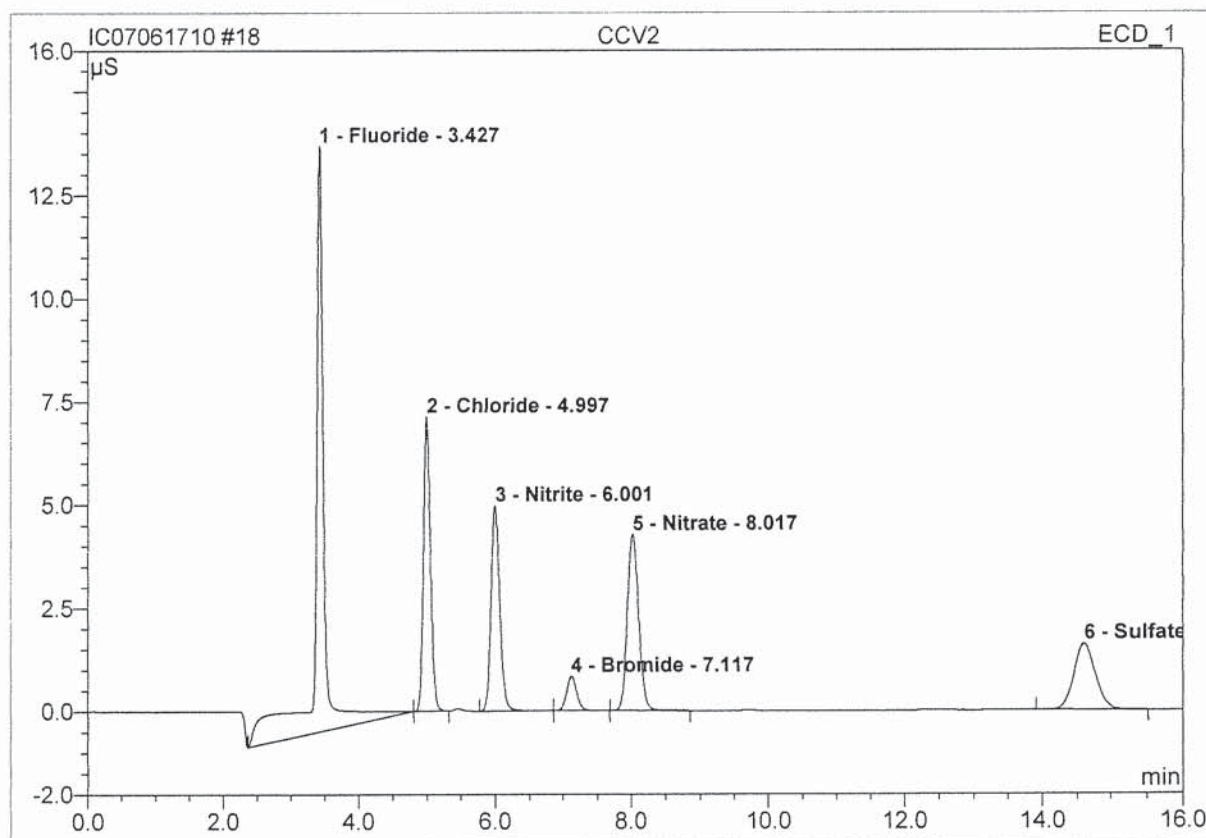
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.43	Fluoride	13.703	1.303	29.32	4.867 ^{97?}	BMB*
2	5.00	Chloride	7.129	0.852	19.17	5.055 ^{101?}	BMB*
3	6.00	Nitrite	4.976	0.733	16.50	1.955 ^{98?}	BMB*
4	7.12	Bromide	0.832	0.142	3.20	2.108 ^{102?}	BMB*
5	8.02	Nitrate	4.276	0.824	18.54	1.980 ^{99?}	BMB
6	14.61	Sulfate	1.607	0.590	13.28	5.182 ^{104?}	BMB
Total:			32.524	4.443	100.00	21.147	

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18 CCV2

Sample Name:	CCV2	Injection Volume:	25.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 14:04	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

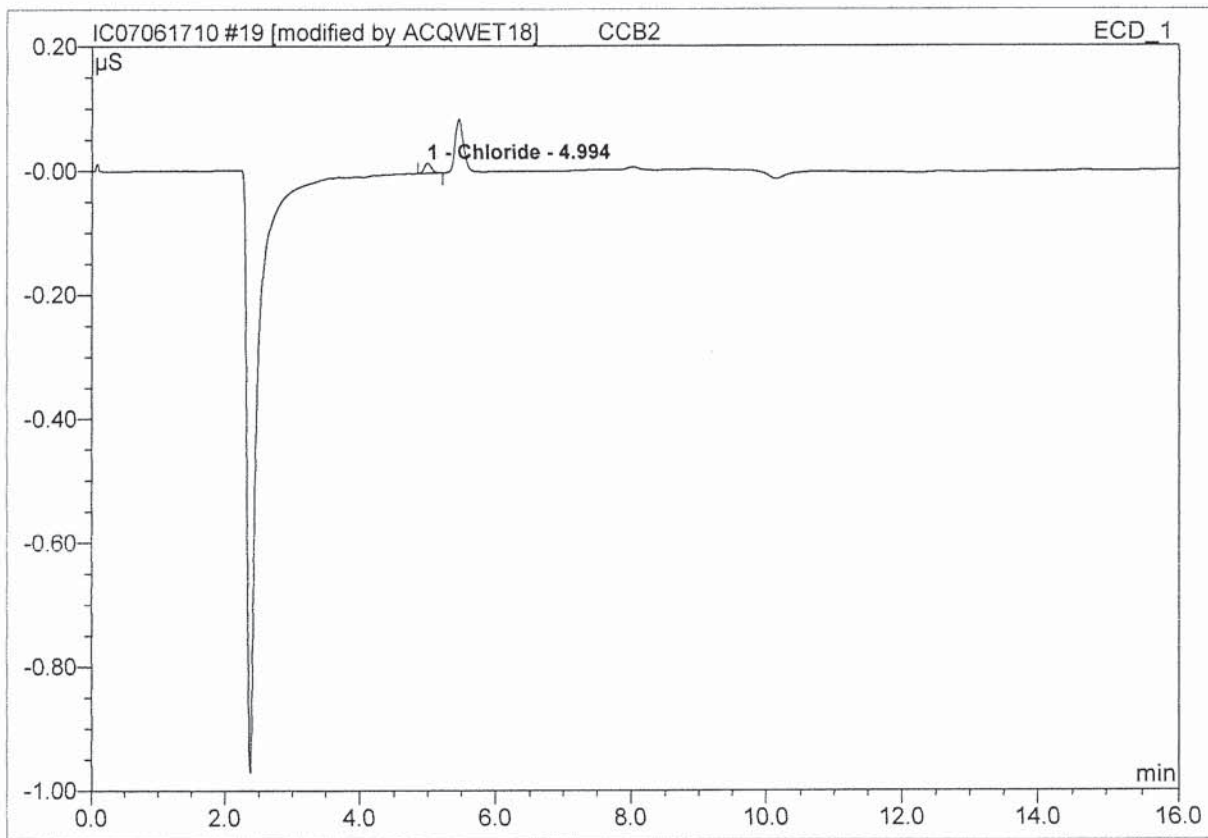


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppm	Type
1	3.43	Fluoride	14.179	2.234	41.56	8.349	BMB
2	5.00	Chloride	7.129	0.852	15.84	5.055	bMB
3	6.00	Nitrite	4.977	0.735	13.67	1.959	BMB
4	7.12	Bromide	0.833	0.142	2.65	2.112	bMB
5	8.02	Nitrate	4.276	0.824	15.32	1.980	BMB
6	14.61	Sulfate	1.607	0.590	10.97	5.182	BMB
Total:			33.001	5.376	100.00	24.637	

Before

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19 CCB2			
Sample Name:	CCB2	Injection Volume:	25.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 14:21	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



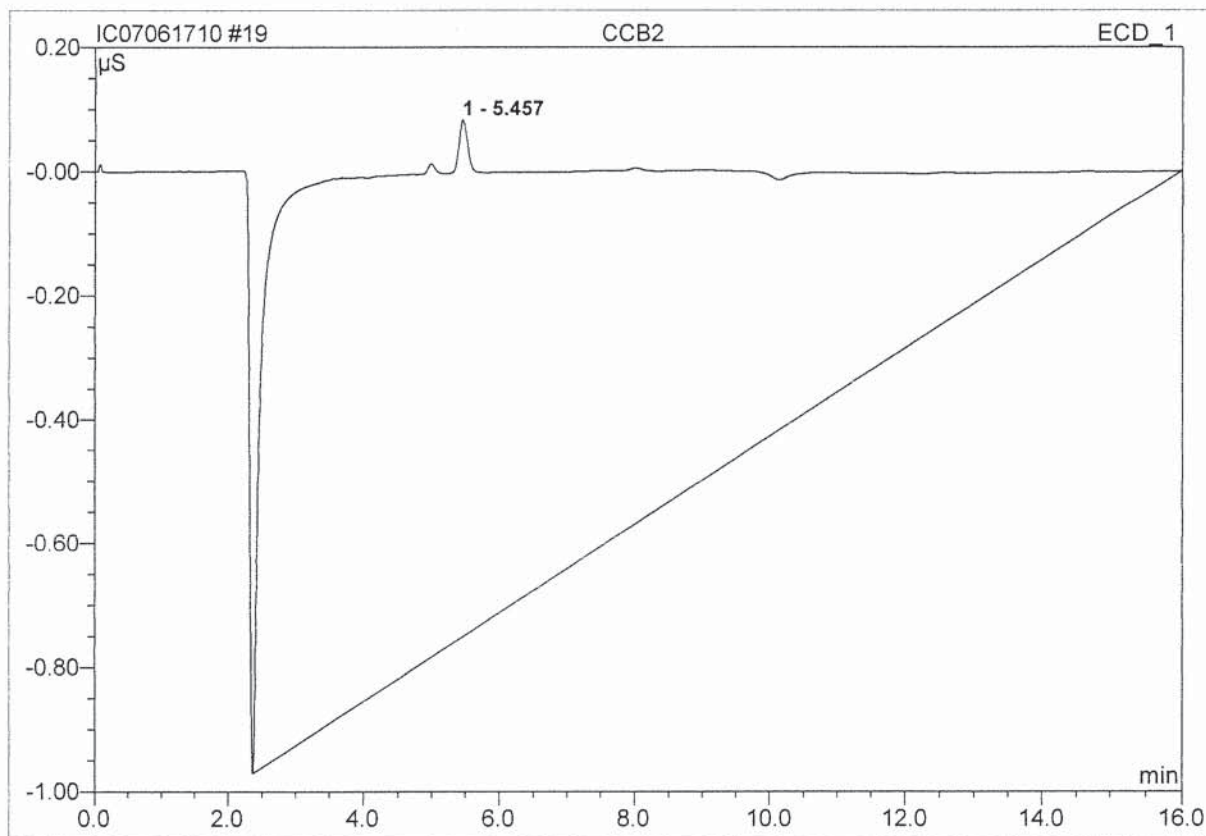
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	4.99	Chloride	0.016	0.002	100.00	0.012	BMB*
Total:			0.016	0.002	100.00	0.012	

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19 CCB2

Sample Name:	CCB2	Injection Volume:	25.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 14:21	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

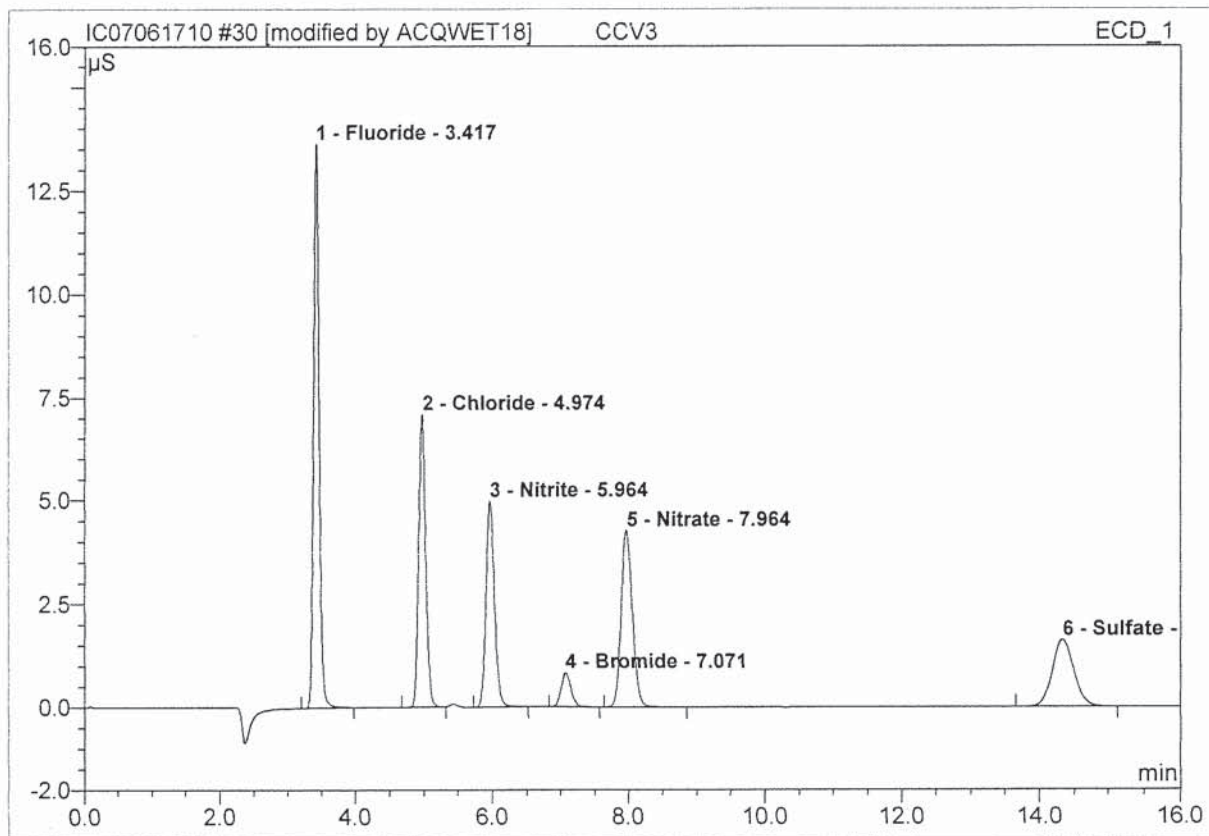


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	5.46	n.a.	0.835	6.467	100.00	n.a.	BMB
Total:			0.835	6.467	100.00	0.000	

Before

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30 CCV3			
Sample Name:	CCV3	Injection Volume:	25.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 17:33	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

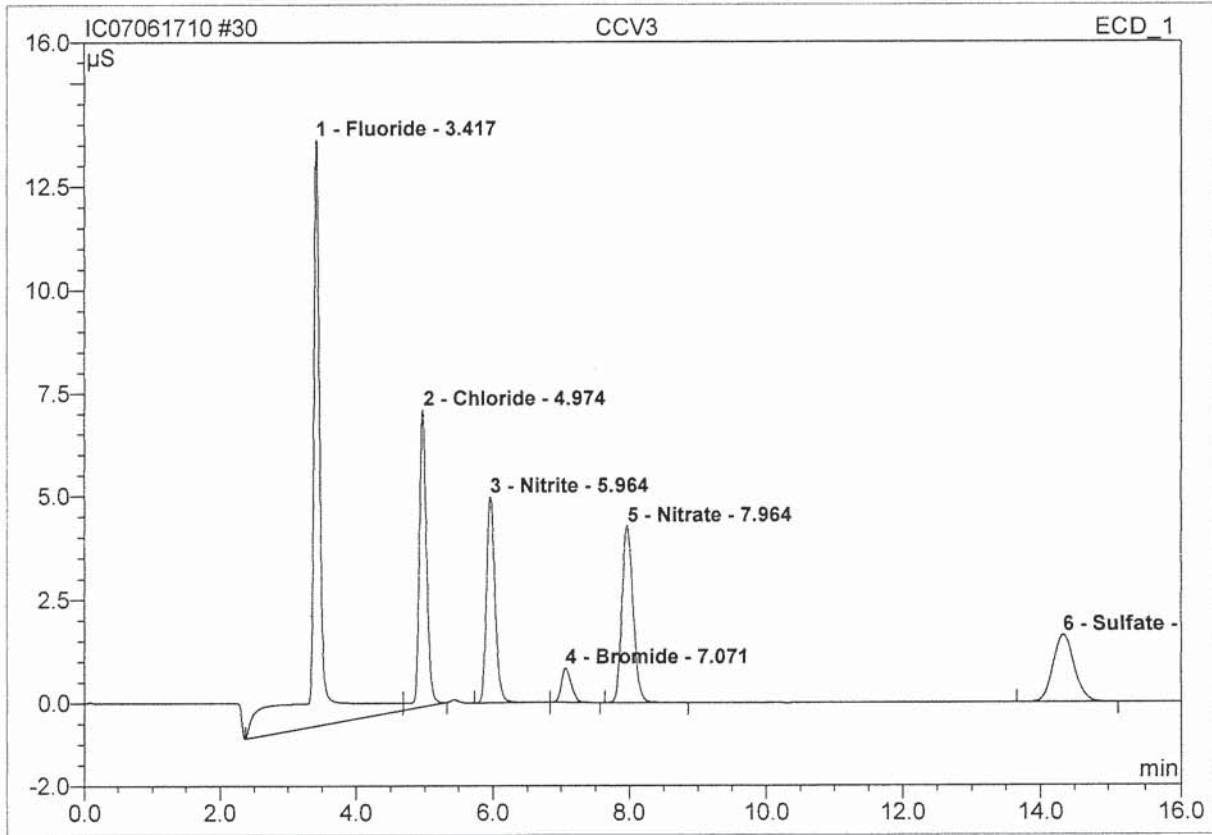


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.42	Fluoride	13.652	1.298	29.38	4.850772	BMB*
2	4.97	Chloride	7.091	0.846	19.14	5.019108	BMB*
3	5.96	Nitrite	4.972	0.730	16.52	1.945982	BMB*
4	7.07	Bromide	0.828	0.141	3.18	2.089159	BMB*
5	7.96	Nitrate	4.266	0.817	18.49	1.963982	BMB
6	14.34	Sulfate	1.625	0.587	13.29	5.158103	BMB
Total:			32.434	4.418	100.00	21.025	

(1-8)

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30 CCV3			
Sample Name:	CCV3	Injection Volume:	25.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 17:33	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

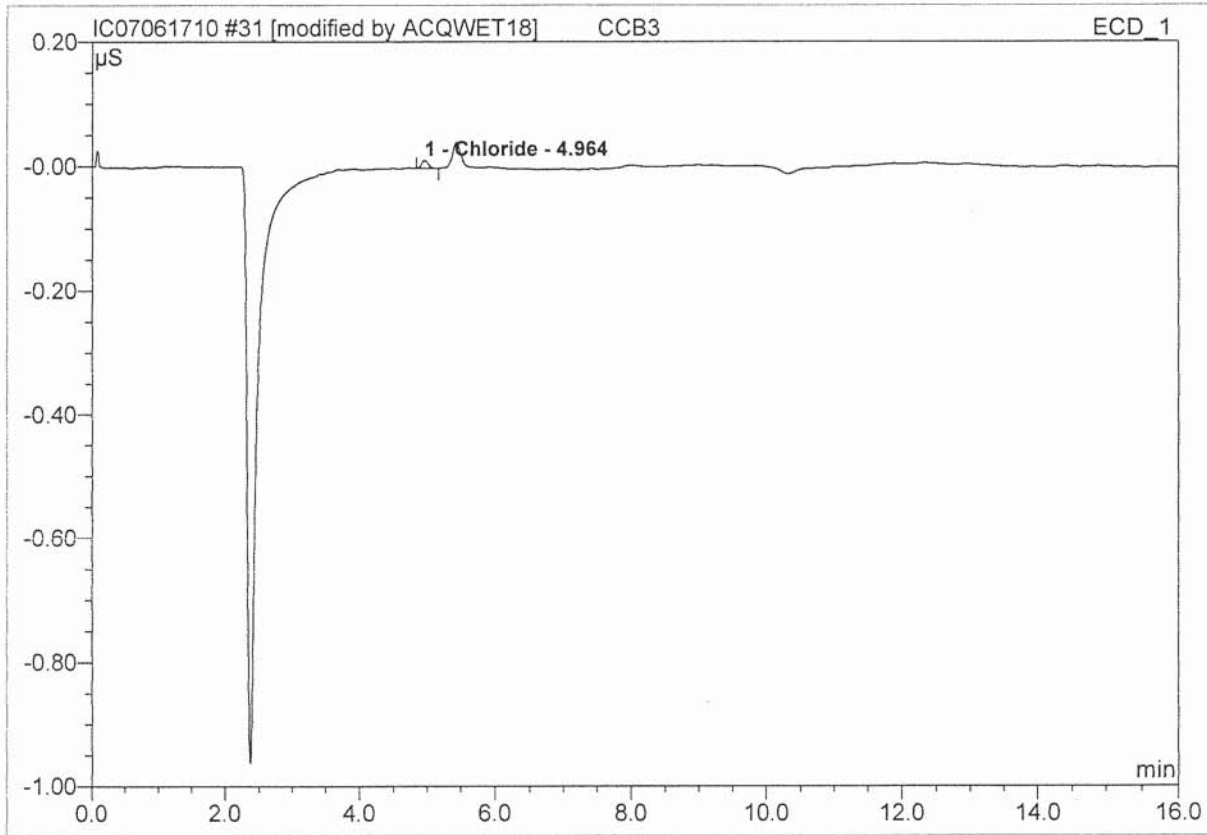


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.42	Fluoride	14.191	2.379	42.79	8.890	BM
2	4.97	Chloride	7.187	0.902	16.22	5.353	MB
3	5.96	Nitrite	4.974	0.734	13.20	1.956	BMB
4	7.07	Bromide	0.828	0.141	2.53	2.089	bMB
5	7.96	Nitrate	4.266	0.817	14.69	1.963	BMB
6	14.34	Sulfate	1.625	0.587	10.56	5.158	BMB
Total:			33.071	5.559	100.00	25.409	

Before

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31 CCB3			
Sample Name:	CCB3	Injection Volume:	25.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 17:50	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



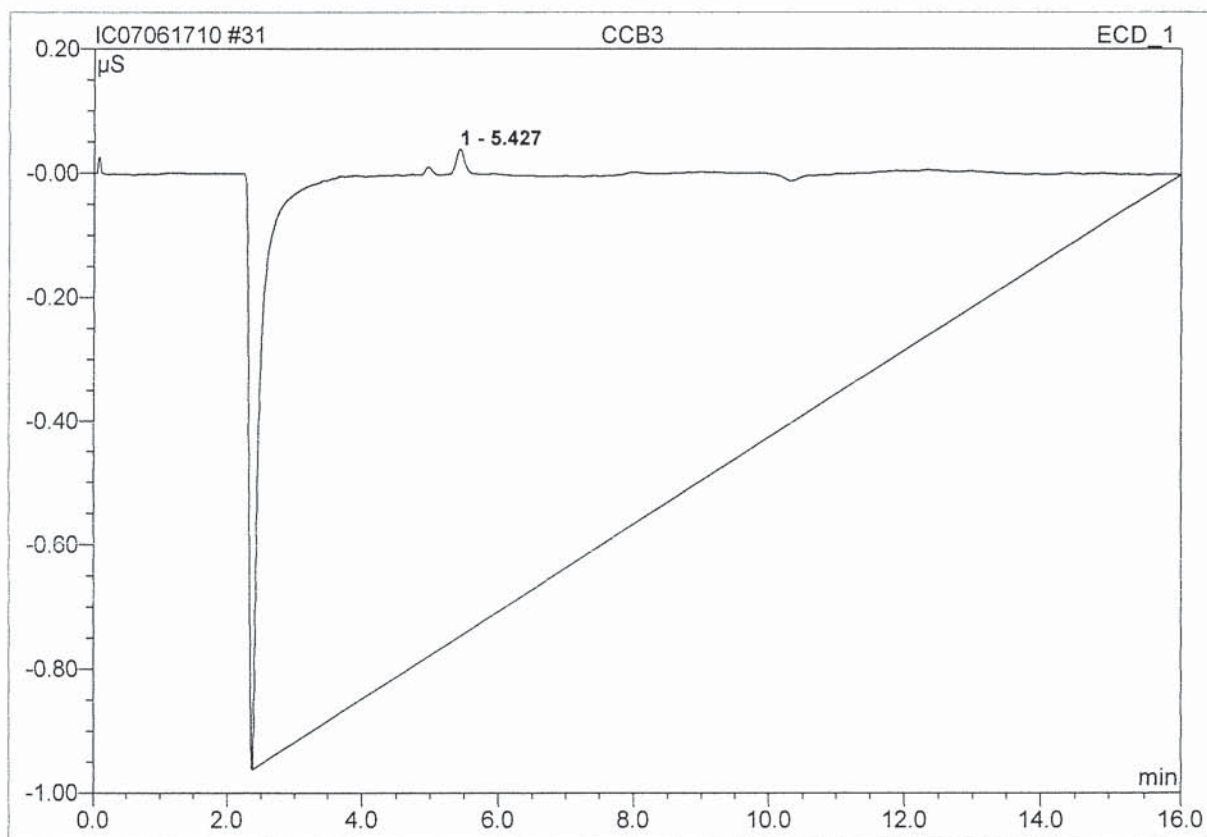
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.96	Chloride	0.013	0.002	100.00	0.009	BMB*
Total:			0.013	0.002	100.00	0.009	

MB

3/6/21/10

31 CCB3

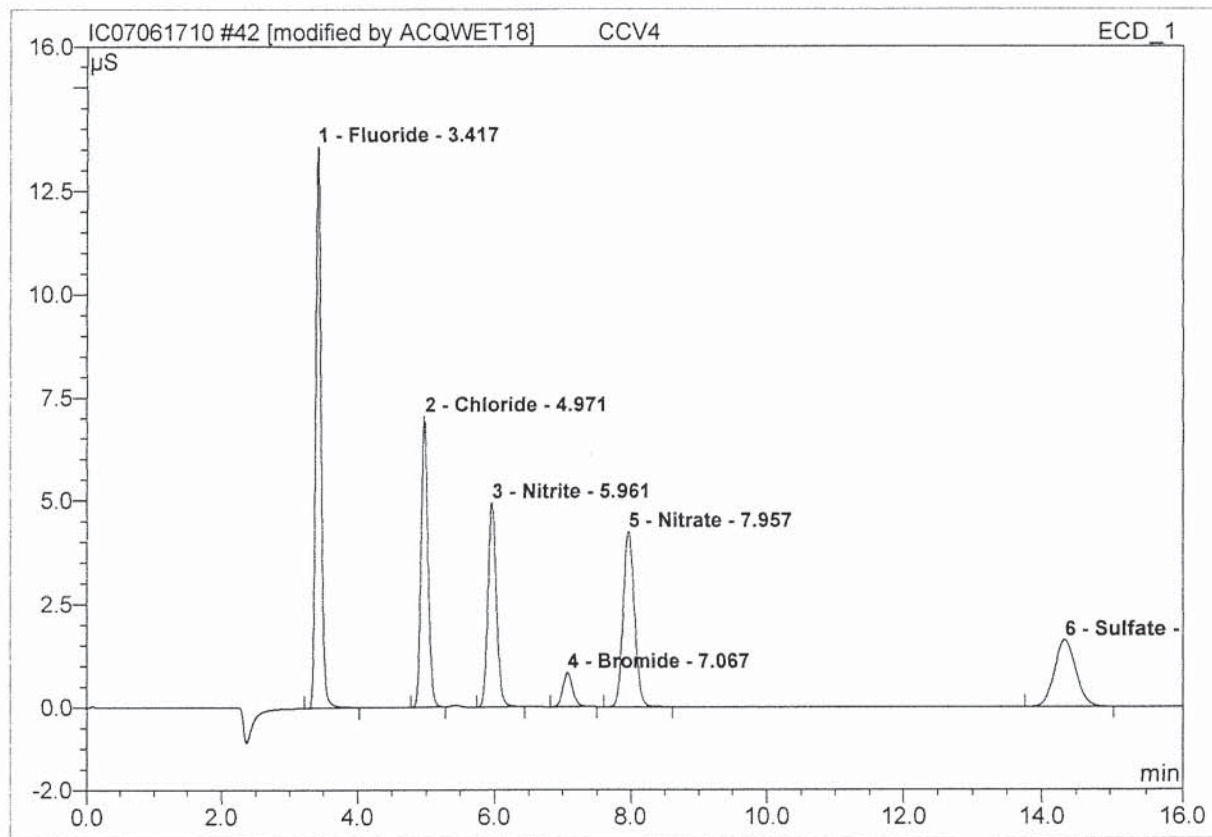
Sample Name:	CCB3	Injection Volume:	25.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 17:50	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	5.43	n.a.	0.787	6.439	100.00	n.a.	BMB
Total:			0.787	6.439	100.00	0.000	

31090
JUN 18 2010

42 CCV4			
Sample Name:	CCV4	Injection Volume:	25.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 21:02	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



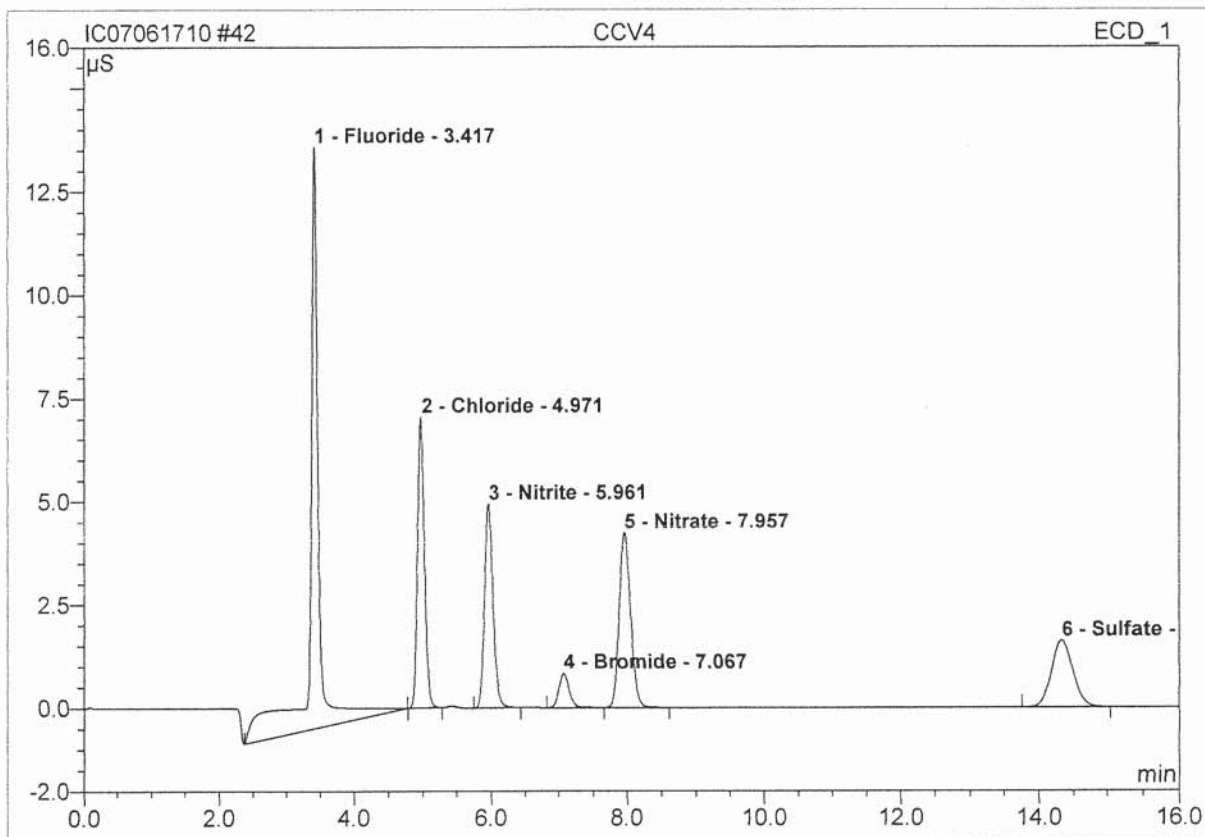
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.42	Fluoride	13.604	1.294	29.37	4.835(17%)	BMB*
2	4.97	Chloride	7.046	0.844	19.15	5.009(19%)	BMB*
3	5.96	Nitrite	4.947	0.727	16.50	1.938(7%)	BMB
4	7.07	Bromide	0.824	0.141	3.21	2.097(8%)	BMB*
5	7.96	Nitrate	4.243	0.815	18.49	1.958(8%)	BMB*
6	14.33	Sulfate	1.619	0.586	13.29	5.144(20%)	BMB
Total:			32.282	4.406	100.00	20.981	

(MS)

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42 CCV4

Sample Name:	CCV4	Injection Volume:	25.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 21:02	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

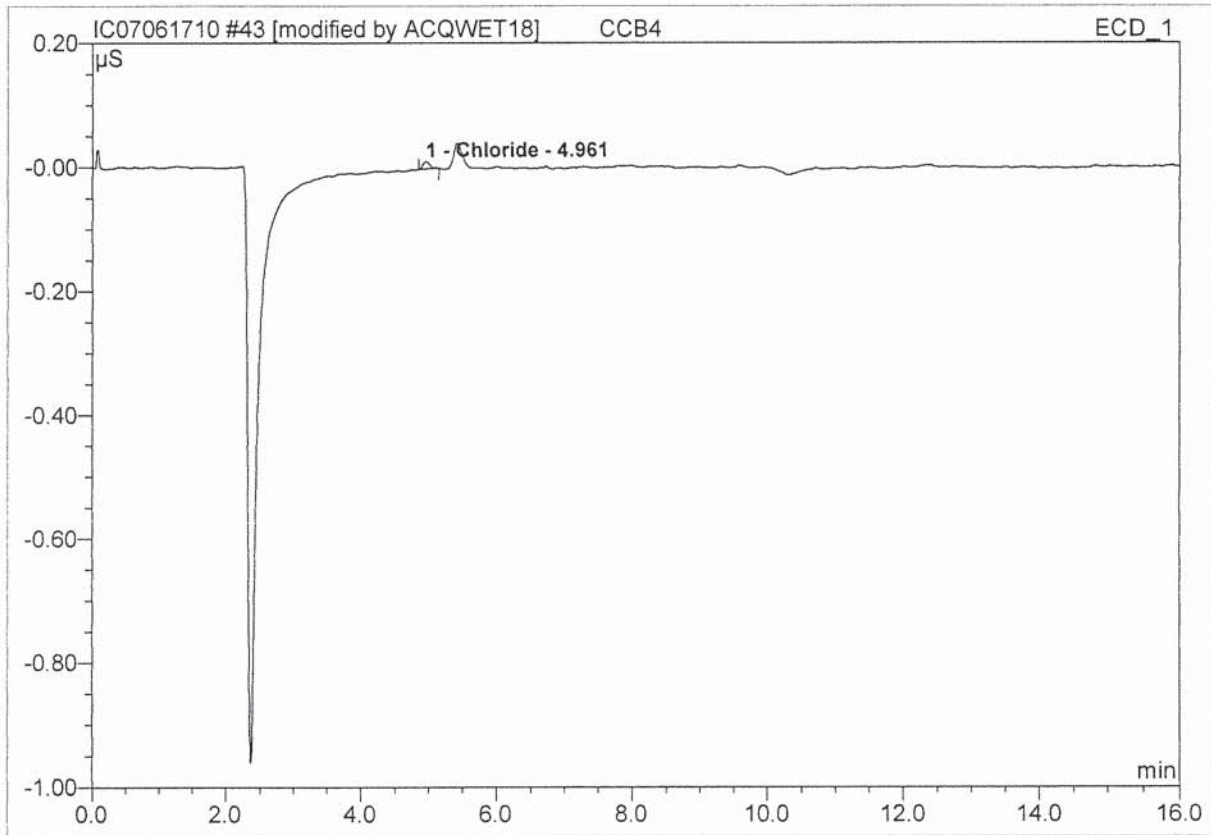


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount ppm	Type
1	3.42	Fluoride	14.076	2.207	41.47	8.246	BMB
2	4.97	Chloride	7.046	0.844	15.86	5.009	bMB
3	5.96	Nitrite	4.947	0.727	13.66	1.938	BMB
4	7.07	Bromide	0.825	0.143	2.68	2.118	Ru
5	7.96	Nitrate	4.244	0.815	15.32	1.960	BMB
6	14.33	Sulfate	1.619	0.586	11.00	5.144	BMB
Total:			32.757	5.321	100.00	24.415	

Balance

JUN 13 2010

43 CCB4			
Sample Name:	CCB4	Injection Volume:	25.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 21:20	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



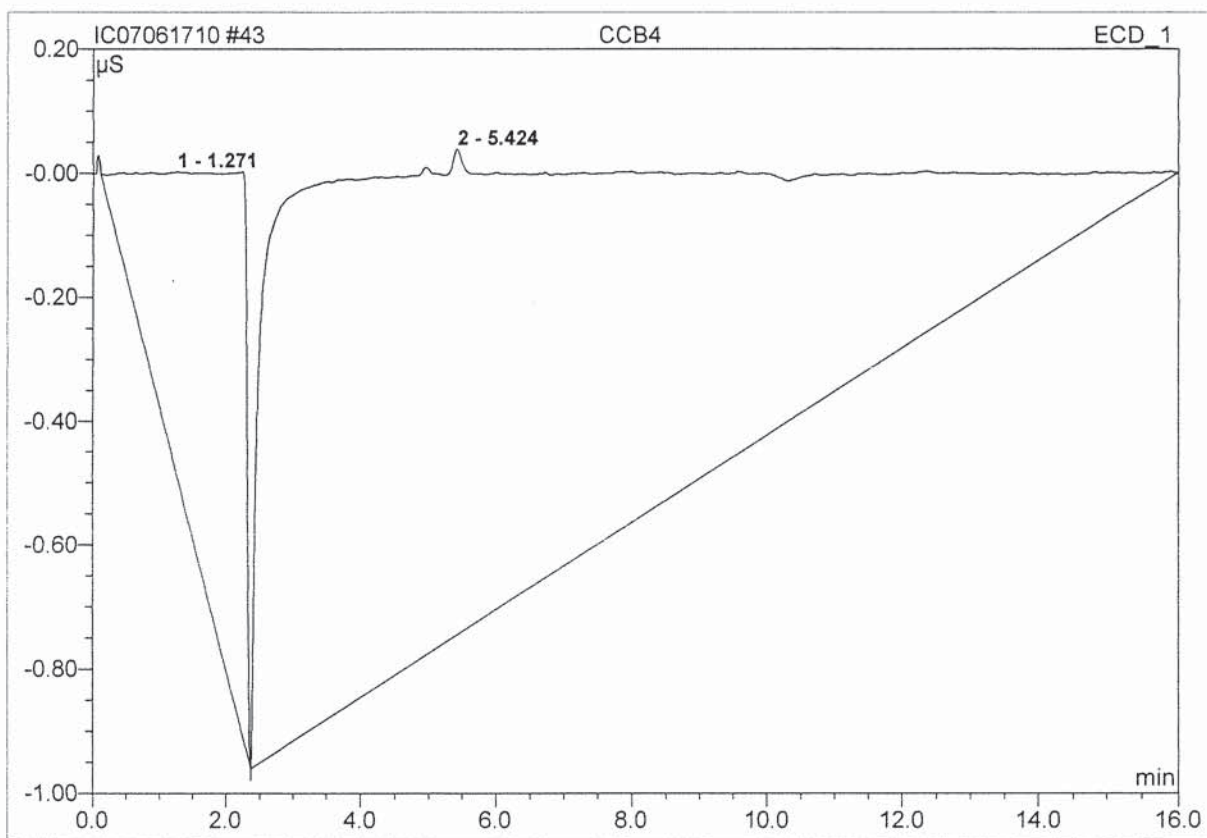
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount ppm	Type
1	4.96	Chloride	0.012	0.001	100.00	0.009	BMB*
Total:			0.012	0.001	100.00	0.009	

MB

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43 CCB4

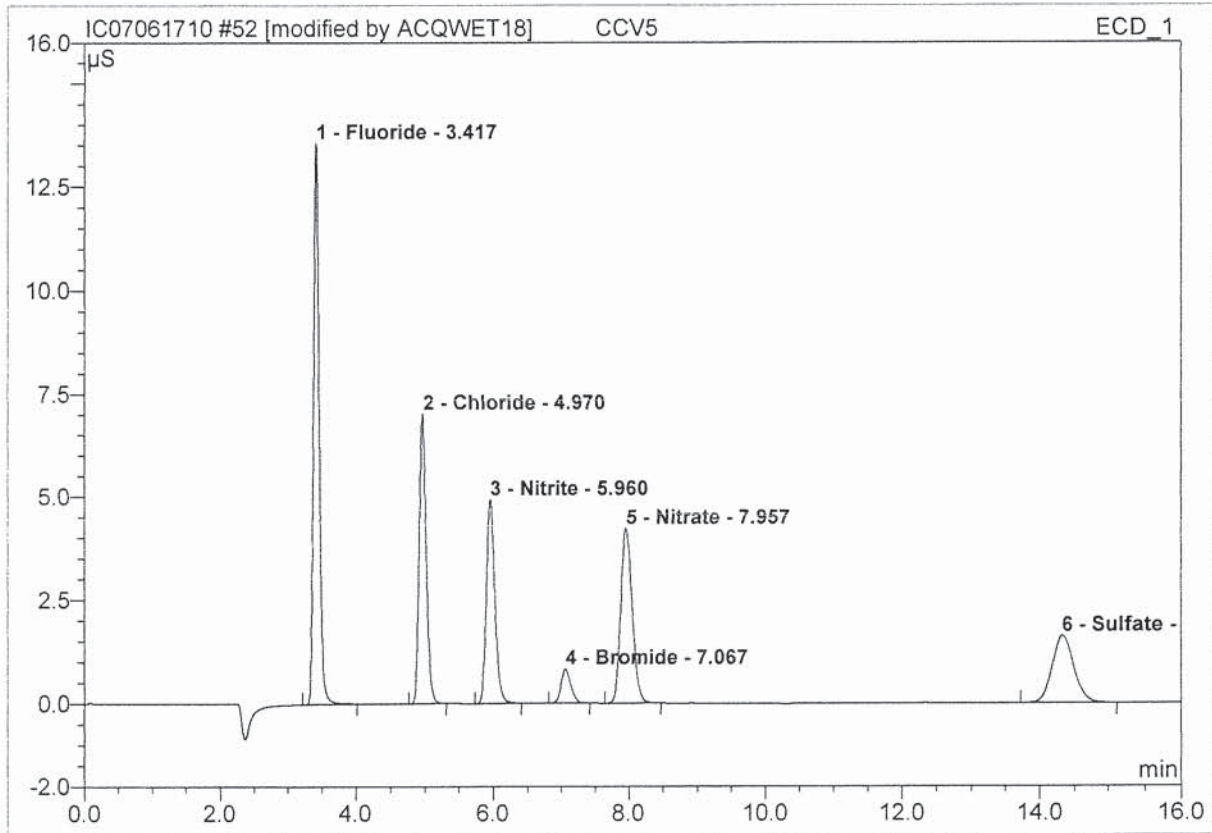
Sample Name:	CCB4	Injection Volume:	25.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 21:20	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.27	n.a.	0.494	1.033	13.90	n.a.	BMb
2	5.42	n.a.	0.785	6.401	86.10	n.a.	bMB
Total:			1.279	7.434	100.00	0.000	

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52 CCV5			
Sample Name:	CCV5	Injection Volume:	25.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 23:57	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



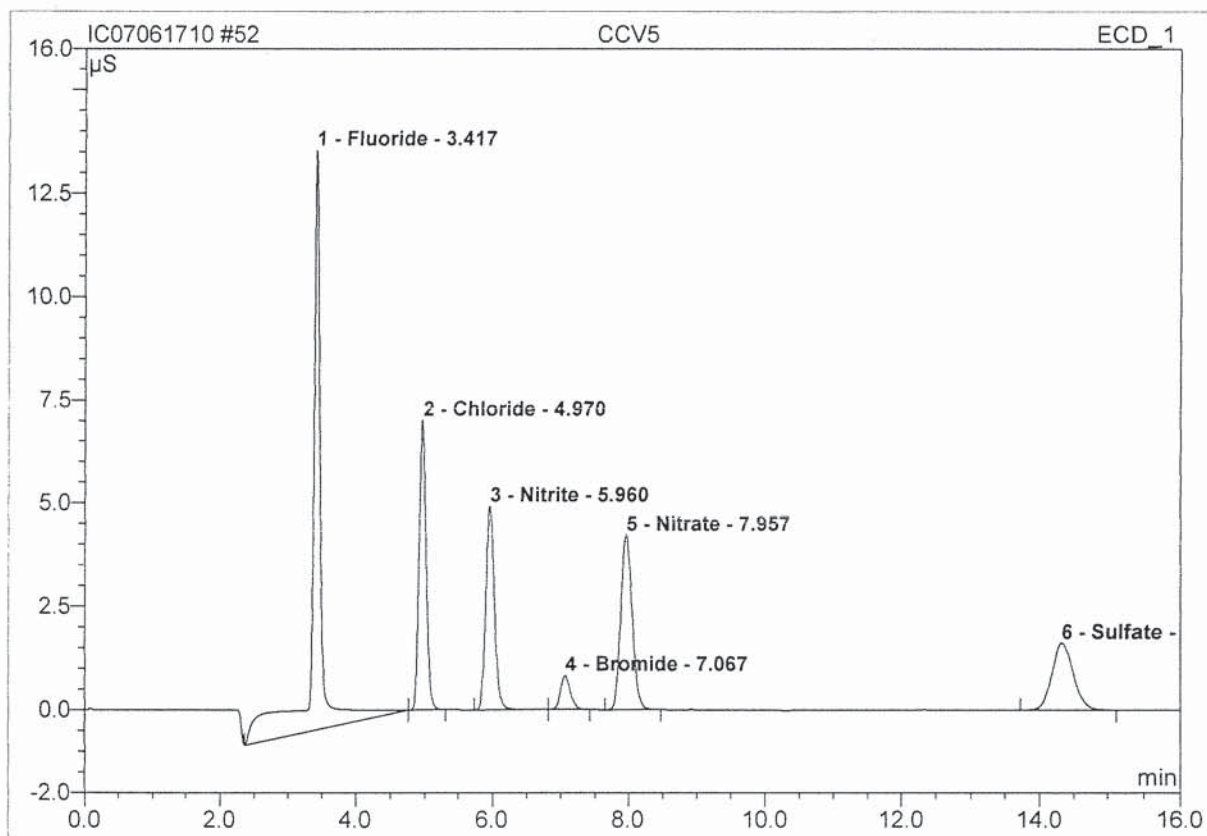
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount ppm	Type
1	3.42	Fluoride	13.570	1.295	29.35	4.840	BMB*
2	4.97	Chloride	7.021	0.844	19.13	5.010	BMB*
3	5.96	Nitrite	4.931	0.728	16.49	1.940	BMB*
4	7.07	Bromide	0.822	0.141	3.19	2.088	BMB
5	7.96	Nitrate	4.231	0.816	18.50	1.962	BMB
6	14.33	Sulfate	1.620	0.589	13.35	5.176	BMB
Total:			32.194	4.413	100.00	21.018	

MP

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52 CCV5

Sample Name:	CCV5	Injection Volume:	25.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/17/2010 23:57	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

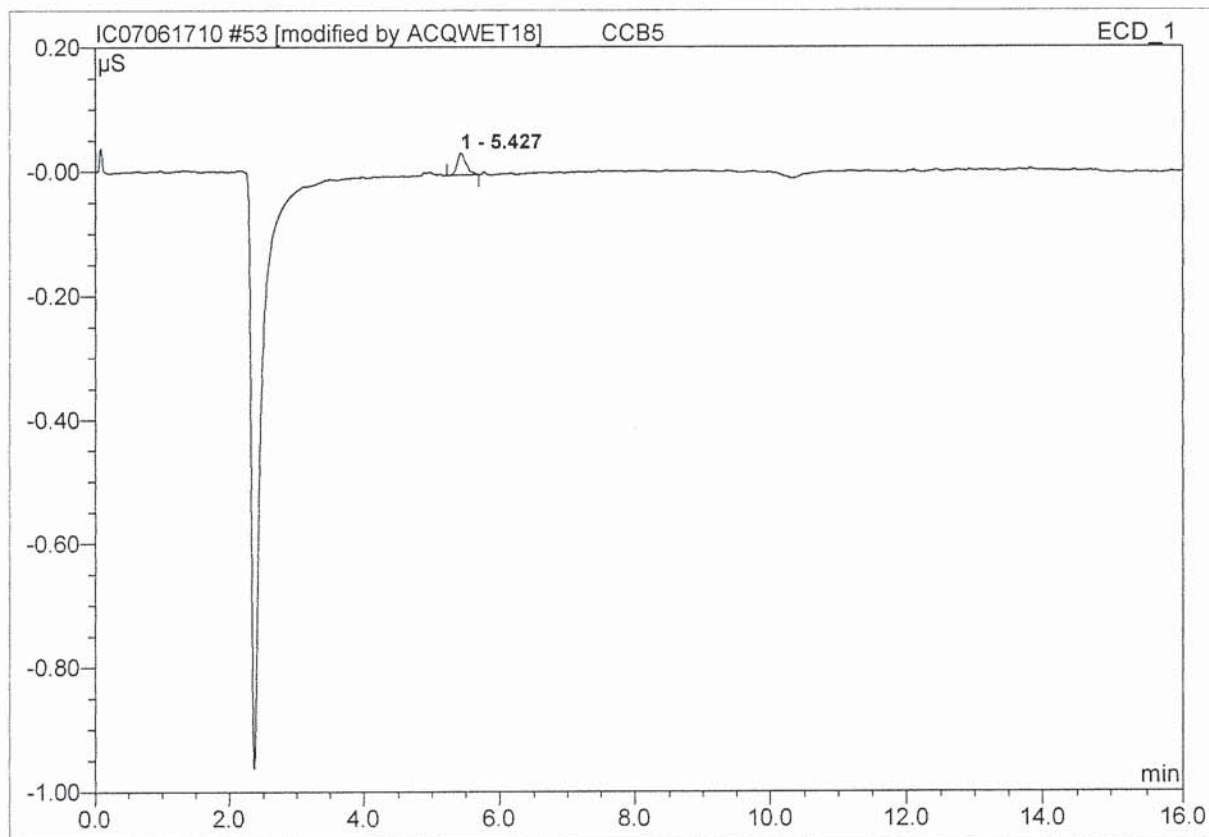


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.42	Fluoride	14.043	2.208	41.42	8.251	BMB
2	4.97	Chloride	7.021	0.844	15.83	5.010	bMB
3	5.96	Nitrite	4.934	0.733	13.75	1.954	BMB
4	7.07	Bromide	0.822	0.141	2.64	2.088	BMB
5	7.96	Nitrate	4.231	0.816	15.31	1.962	BMB
6	14.33	Sulfate	1.620	0.589	11.05	5.176	BMB
Total:			32.670	5.331	100.00	24.441	

Retarc

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53 CCB5			
Sample Name:	CCB5	Injection Volume:	25.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/18/2010 0:14	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000

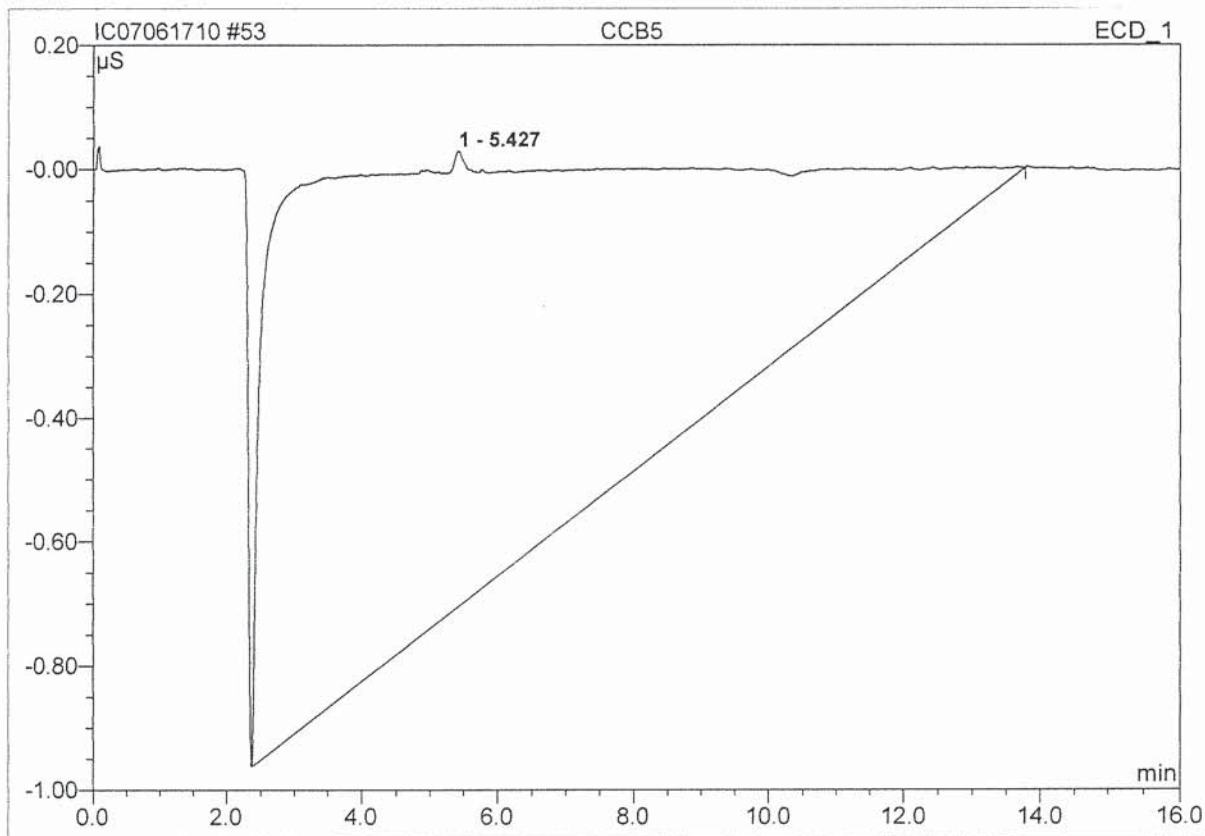


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	5.43	n.a.	0.035	0.005	100.00	n.a.	BMB*
Total:			0.035	0.005	100.00	0.000	

MB

6/18/10

53 CCB5			
Sample Name:	CCB5	Injection Volume:	25.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	300	Bandwidth:	n.a.
Quantif. Method:	300	Dilution Factor:	1.0000
Recording Time:	6/18/2010 0:14	Sample Weight:	1.0000
Run Time (min):	16.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount ppm	Type
1	5.43	n.a.	0.734	5.328	100.00	n.a.	BMB
Total:			0.734	5.328	100.00	0.000	

Before

JUN 18 2010

COLUMBIA ANALYTICAL SERVICES, INC.

Ion Chromatography Calibration Data

Sequence: IC03042610

Date: 04/26/10

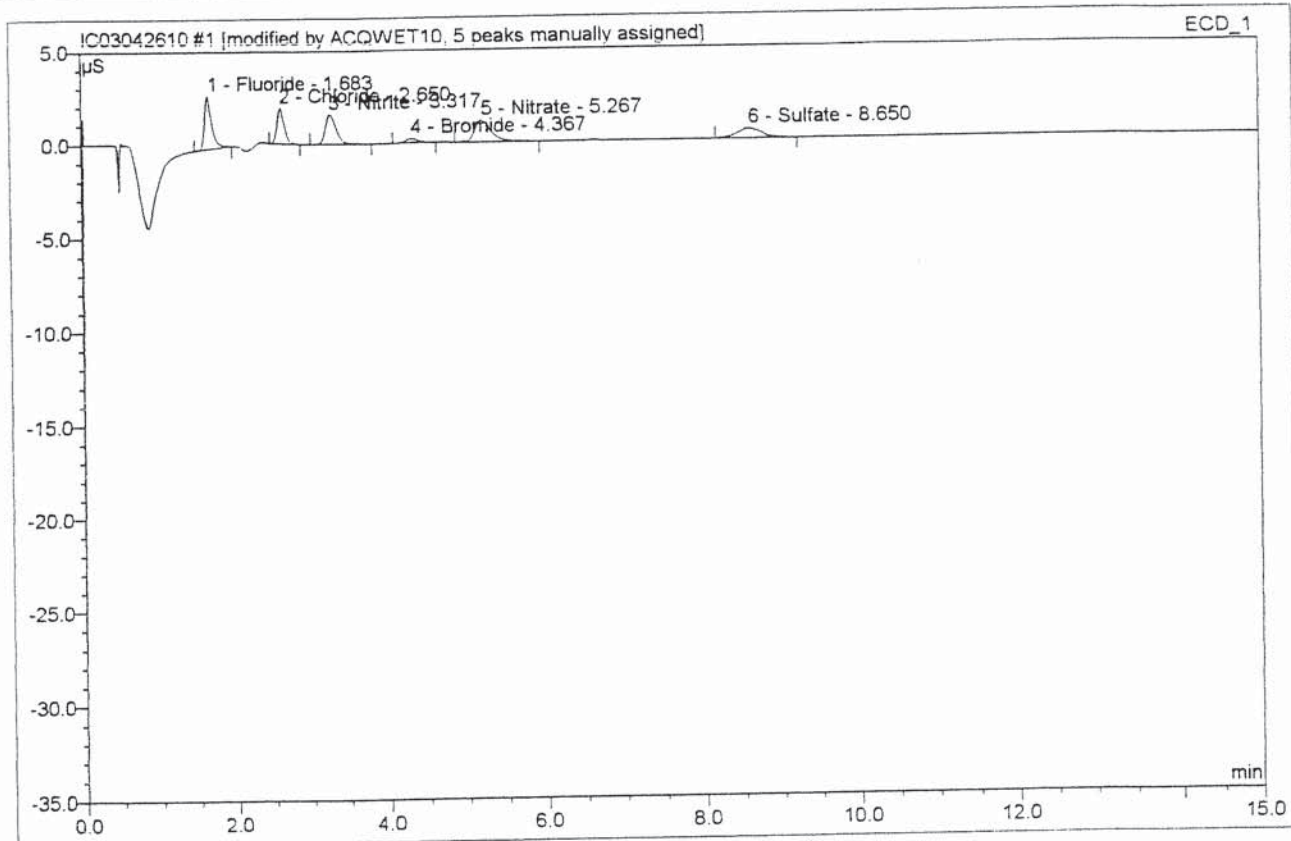
Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Corr.Coeff.	Slope
F	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9846	1.9134
Cl	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9661	1.5595
NO2	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9925	2.8873
Br	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9591	0.5358
NO3	0.0	0.1	0.5	1.0	2.0	5.0	-	99.9043	3.6839
SO4	0.0	0.2	0.5	1.0	5.0	7.5	10.0	99.9690	0.9841

All calibration standard concentrations are in mg/L unless otherwise noted.
Zero point forced through zero.

6/4/10

1 std2/lvl2

Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 8:54	Sample Weight:	1.0000
Run Time (min):	15.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	2.860	0.324	24.73	0.169	BMB*
2	2.65	Chloride	1.892	0.229	17.47	0.147	BMB^
3	3.32	Nitrite	1.586	0.259	19.78	0.090	BMB^
4	4.37	Bromide	0.244	0.043	3.25	0.080	BMB**
5	5.27	Nitrate	1.144	0.279	21.26	0.076	BMB^
6	8.65	Sulfate	0.507	0.177	13.51	0.180	BMB^
Total:			8.233	1.311	100.00	0.742	

HR

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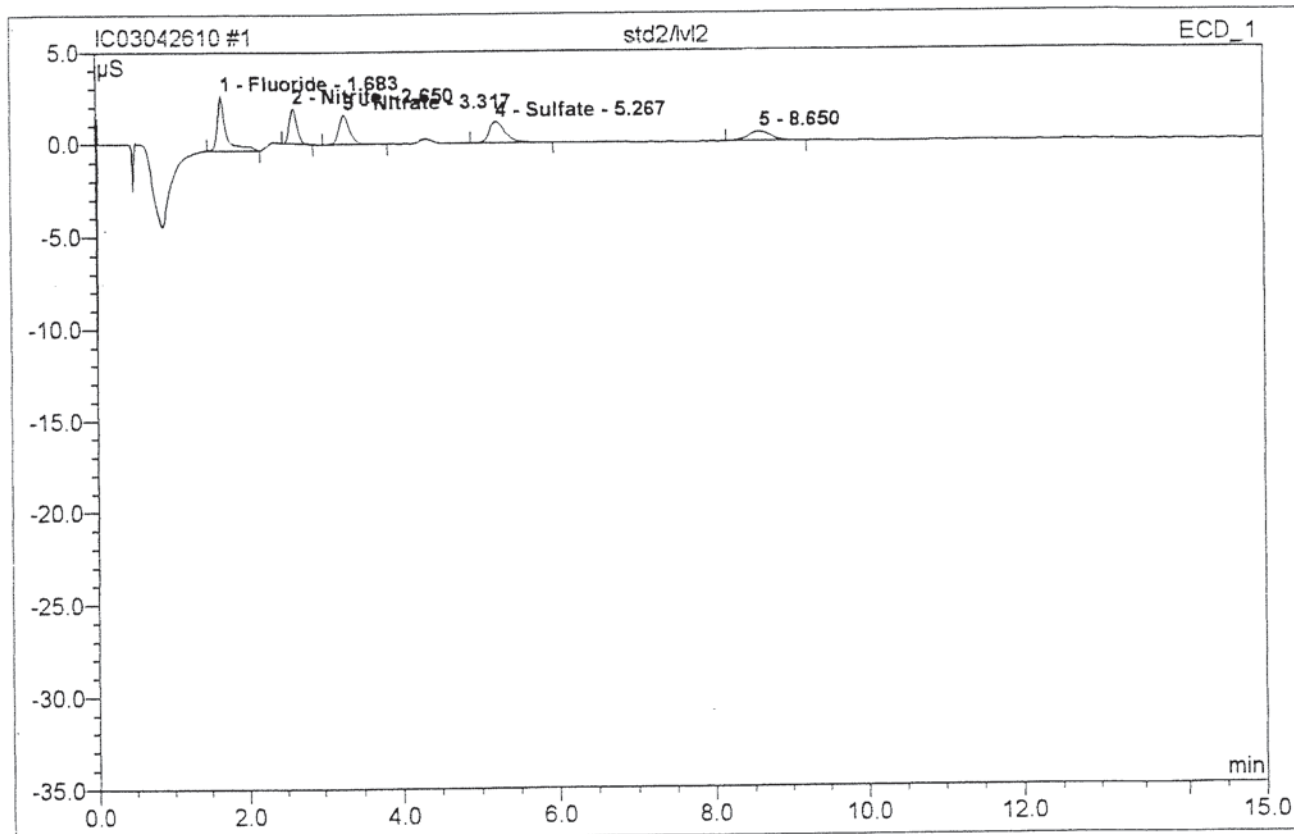
APR 26 2010

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Version 6.50 SP1 Build 956

default/integration

1 std2/lvl2

Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 8:54	Sample Weight:	1.0000
Run Time (min):	15.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	2.953	0.421	30.83	0.200	BMB
2	2.65	Nitrite	1.892	0.229	16.78	0.100	BMB
3	3.32	Nitrate	1.586	0.259	19.00	0.100	BMB
4	5.27	Sulfate	1.144	0.279	20.42	0.200	BMB
5	8.65	n.a.	0.507	0.177	12.97	n.a.	BMB
Total:			8.081	1.366	100.00	0.600	

Before

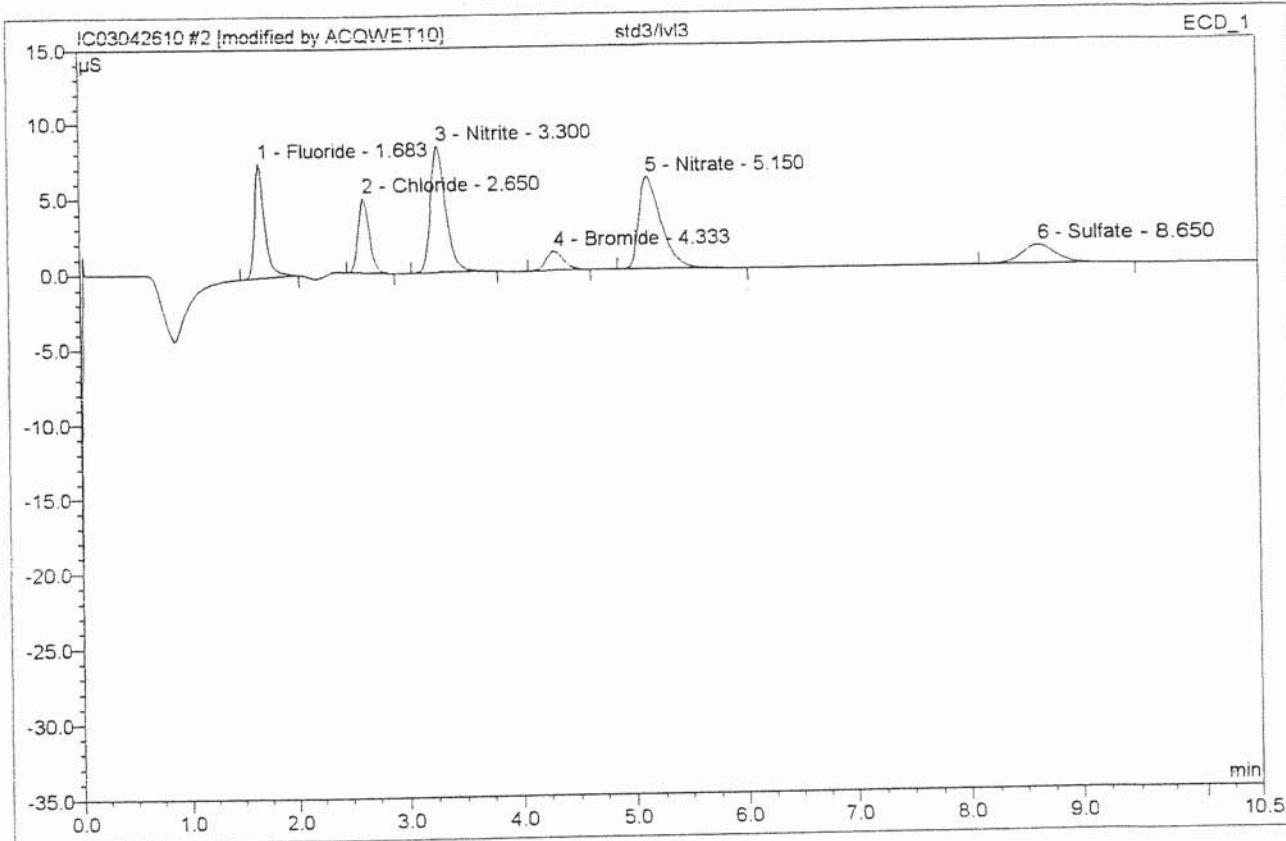
APR 26 2010

default/Integration

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

2 std3/lvl3

Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:12	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000

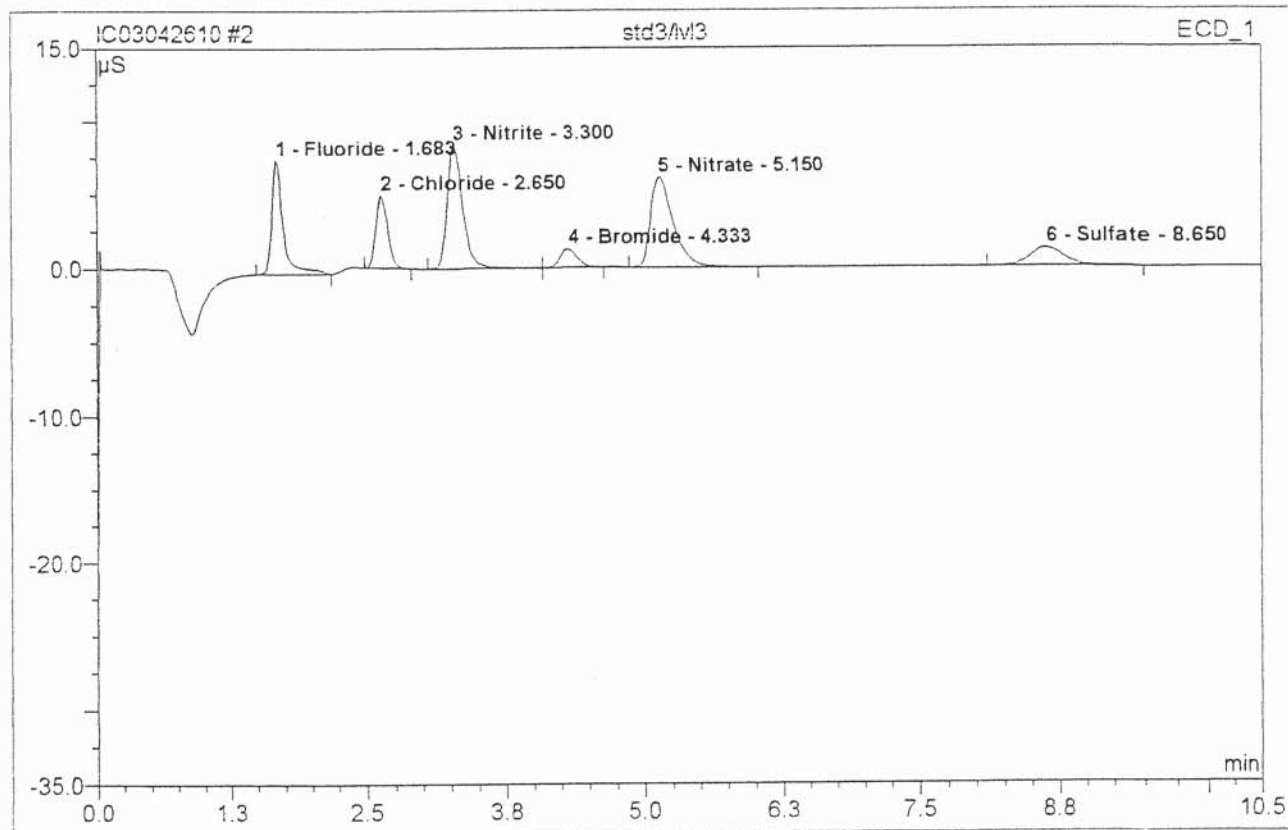


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	7.622	0.844	17.37	0.441	BMB*
2	2.65	Chloride	4.937	0.589	12.12	0.378	BMB
3	3.30	Nitrite	8.365	1.329	27.34	0.460	BMB*
4	4.33	Bromide	1.271	0.229	4.72	0.428	BMB*
5	5.15	Nitrate	6.087	1.425	29.30	0.387	BMB
6	8.65	Sulfate	1.253	0.445	9.16	0.452	BMB
Total:			29.536	4.862	100.00	2.547	

default/integration

Chromleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:12	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	7.720	0.949	19.04	0.510	BMB
2	2.65	Chloride	4.937	0.589	11.82	0.502	BMB
3	3.30	Nitrite	8.377	1.347	27.02	0.501	BMB
4	4.33	Bromide	1.271	0.229	4.60	0.501	bMB
5	5.15	Nitrate	6.087	1.425	28.59	0.500	BMB
6	8.65	Sulfate	1.253	0.445	8.93	0.500	BMB
Total:			29.644	4.984	100.00	3.015	

Before

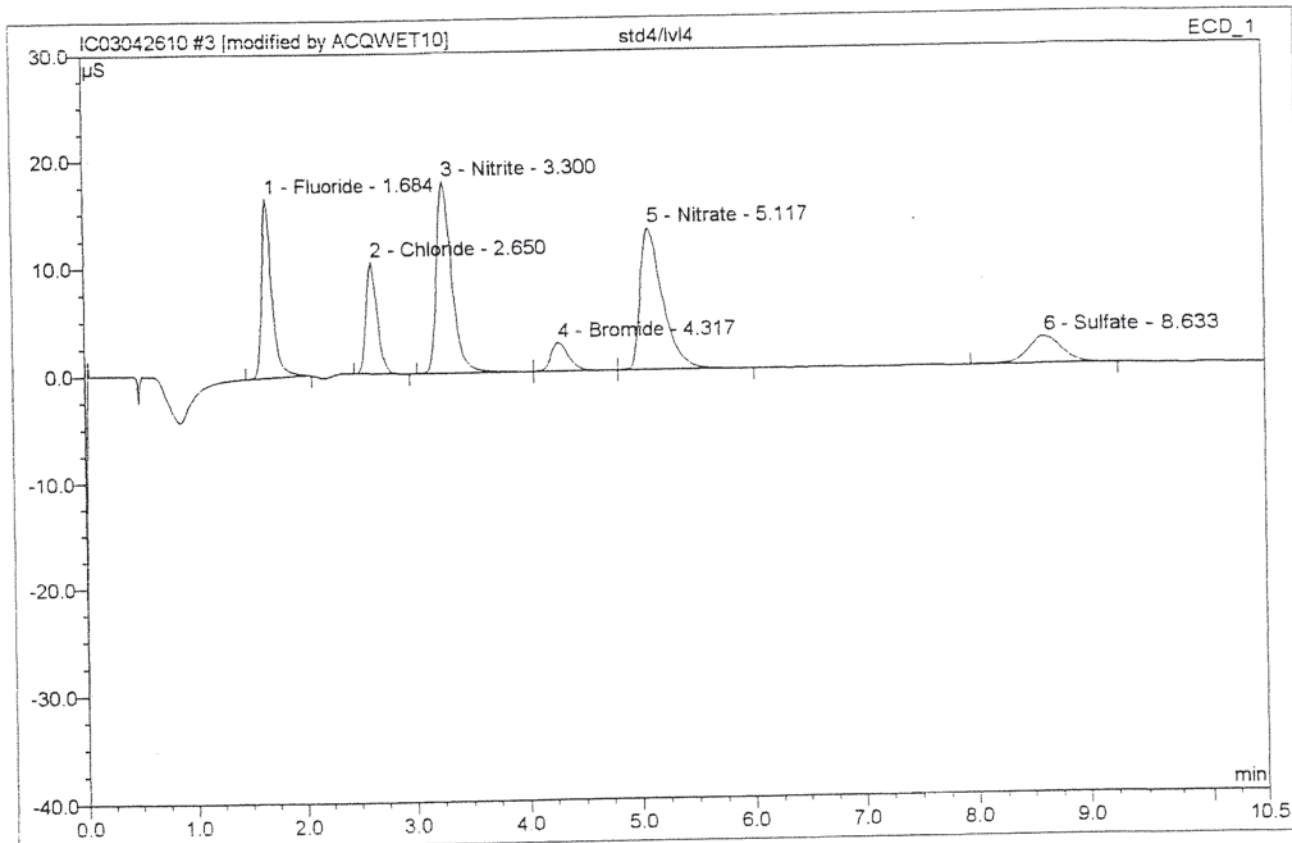
APR 26 2010

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Version 6.50 SP1 Build 956

default/Integration

3 std4/lvl4

Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:25	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.68	Fluoride	16.676	1.811	17.64	0.947	BMB*
2	2.65	Chloride	10.365	1.223	11.91	0.784	BMB
3	3.30	Nitrite	17.874	2.814	27.40	0.975	BMb
4	4.32	Bromide	2.661	0.487	4.74	0.908	bMB
5	5.12	Nitrate	13.149	3.046	29.66	0.827	bMB
6	8.63	Sulfate	2.522	0.888	8.65	0.903	BMB
Total:			63.248	10.270	100.00	5.343	

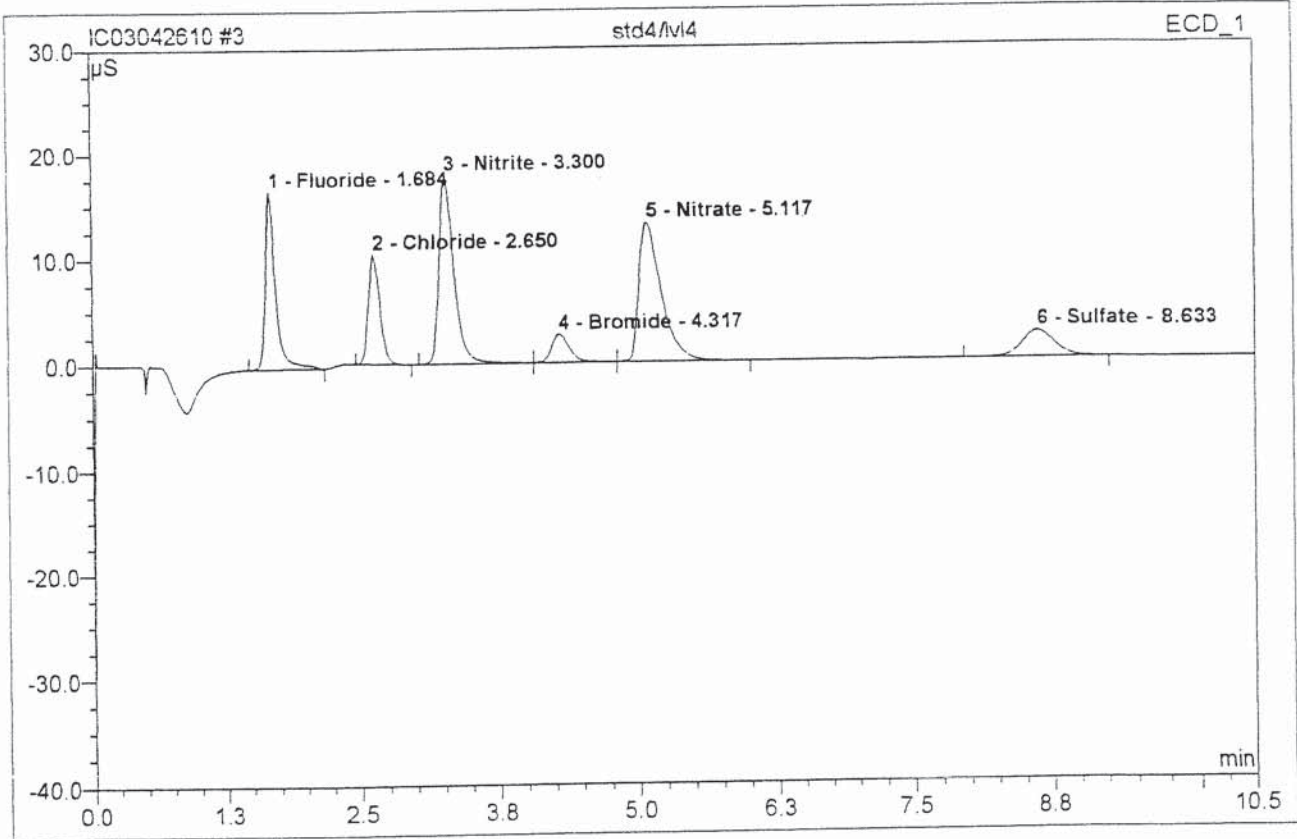
default/integration

APR 26 2010

Chromeleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

3 std4/lvl4

Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2010 9:25	Sample Weight:	1.0000
Run Time (min):	10.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	16.774	1.915	18.46	1.007	BMB
2	2.65	Chloride	10.365	1.223	11.79	1.009	BMB
3	3.30	Nitrite	17.874	2.814	27.13	1.009	BMb
4	4.32	Bromide	2.661	0.487	4.69	1.012	bMb
5	5.12	Nitrate	13.149	3.046	29.36	1.014	bMB
6	8.63	Sulfate	2.522	0.888	8.56	1.000	BMB
Total:			63.346	10.374	100.00	6.051	

Before

APR 26 2010

Chromleon (c) Dionex 1996-2001
Version 6.50 SP1 Build 956

default/Integration