
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 #: 0710475

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	11/5/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0710475

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	10/18/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	10/31/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	UW AMS 5	Modified TO-15	6.5 "Hg
02A	DW AMS 1	Modified TO-15	6.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda L. Truman DATE: 10/31/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0710475

Two 6 Liter Summa Canister samples were received on October 18, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 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.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

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 no 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 Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS 5	0710475-01A	10/17/2007	10/18/2007	NA	12	10/29/2007	NA	Good
DW AMS 1	0710475-02A	10/17/2007	10/18/2007	NA	12	10/29/2007	NA	Good
Lab Blank	0710475-03A	NA	NA	NA	NA	10/29/2007	NA	Good
CCV	0710475-04A	NA	NA	NA	NA	10/29/2007	NA	Good
LCS	0710475-05A	NA	NA	NA	NA	10/29/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5

Lab ID#: 0710475-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.86	2.5	3.2	9.4
Acetone	3.4	12	8.1	29
2-Butanone (Methyl Ethyl Ketone)	0.86	1.7	2.5	5.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0710475-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102916**	**Date of Collection:**	**10/17/07**
Dil. Factor:	**1.71**	**Date of Analysis:**	**10/29/07 07:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	2.5	3.2	9.4
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	0.86	Not Detected	3.7	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0710475-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102916**	**Date of Collection: 10/17/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/29/07 07:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	12	8.1	29
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	1.7	2.5	5.0
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	115	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29oct.b/5102916.d
Lab Smp Id: 0710475-01A
Inj Date : 29-OCT-2007 19:51
Operator : lmr Inst ID: msd5.i
Smp Info : 200mL #3735
Misc Info : 6.5"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-29oct.b/t14q1022a.m
Meth Date : 29-Oct-2007 10:20 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 20:23 Cal File: 5102218.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	407377	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	314634			48.50- 108.50	77.23
8.059	8.059 (1.000)	49	827212			157.98- 217.98	203.06
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.939 (1.000)	114	1565257	25.0000		80.00- 120.00	100.00
9.911	9.939 (1.000)	88	253078			0.00- 46.44	16.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1288543	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	726491			27.52- 87.52	56.38
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	519439	24.2486	24.248	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	299124			32.76- 92.76	57.59
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1357188	25.1627	25.163	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	134459			0.00- 39.67	9.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	874381			39.83- 99.83	64.43
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	670060	28.8113	28.811	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1099246			137.33- 197.33	164.05
16.575	16.575 (1.105)	176	641269			66.82- 126.82	95.70
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	111066	7.15572	12.236	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	323991			265.30- 325.30	291.71
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	11076	1.00190	1.713	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	53161			443.32- 503.32	479.97
7.700	7.672 (0.955)	57	4968			6.67- 66.67	44.85
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	95341	1.45647	2.490	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	57231			29.63- 89.63	60.03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102916.d
Lab Smp Id: 0710475-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 6.5"Hg -> 5psi

Calibration Date: 29-OCT-2007
Calibration Time: 09:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	630178	378107	882249	407377	-35.36
92 1,4-Difluorobenze	2424401	1454641	3394161	1565257	-35.44
125 Chlorobenzene-d5	1903929	1142357	2665501	1288543	-32.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

Report Date: 31-Oct-2007 09:39

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-29oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0710475-01A
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 6.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.248	96.99	70-130
$ 107 Toluene-d8	25.000	25.163	100.65	70-130
$ 138 Bromofluorobenzene	25.000	28.811	115.25	70-130

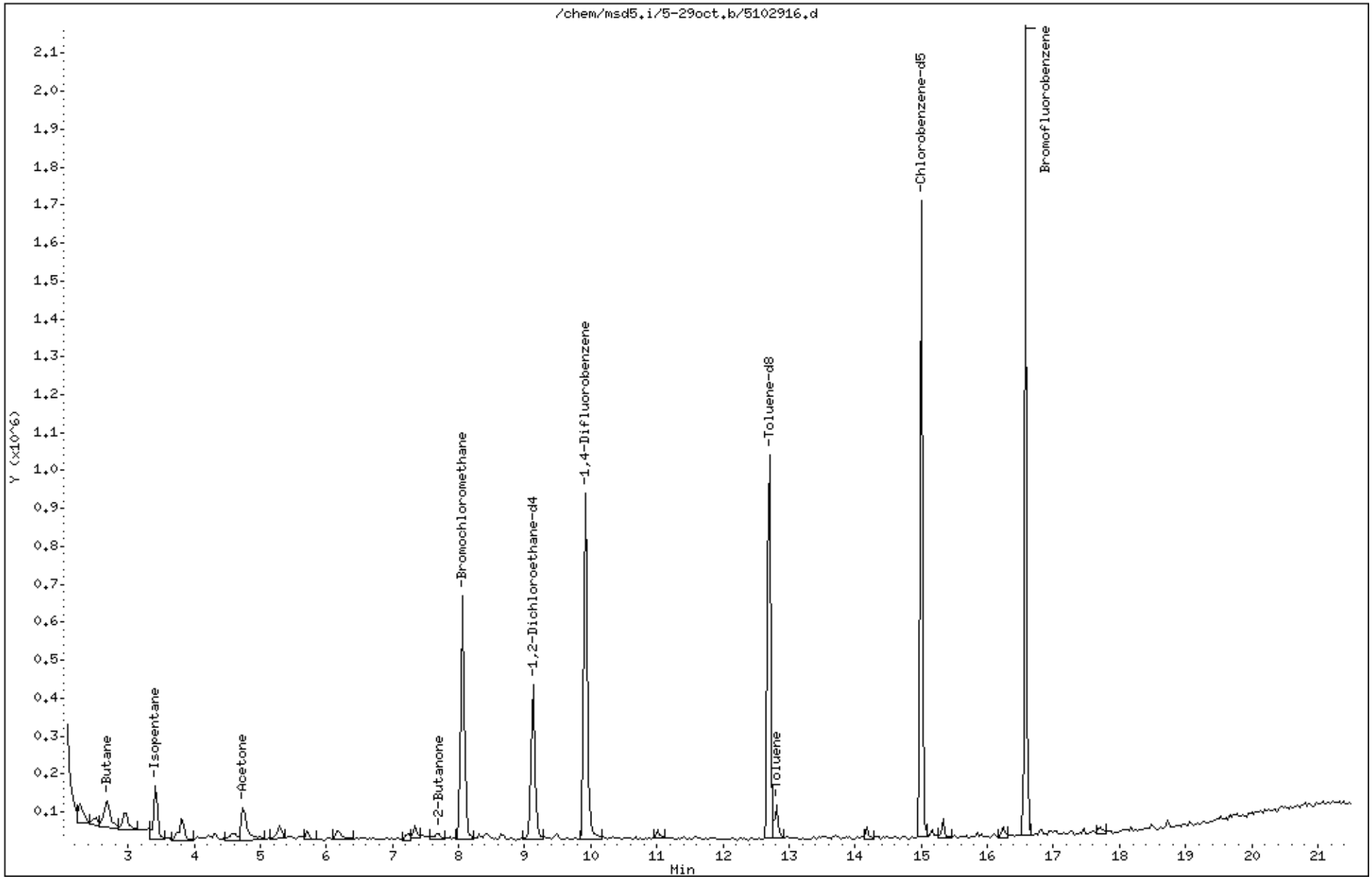
0013

Data File: /chem/msd5.i/5-29oct.b/5102916.d
Date : 29-OCT-2007 19:51
Client ID:
Sample Info: 200mL #3735

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-29oct.b/5102916.d

Date : 29-OCT-2007 19:51

Client ID:

Instrument: msd5.i

Sample Info: 200mL #3735

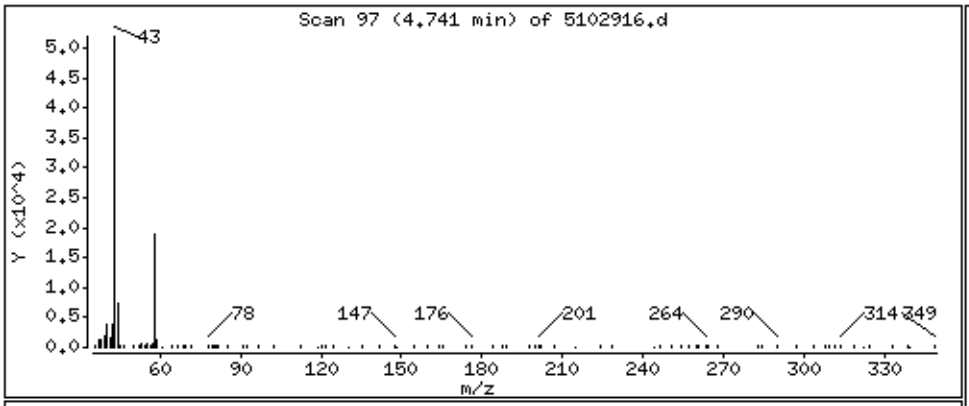
Operator: lmr

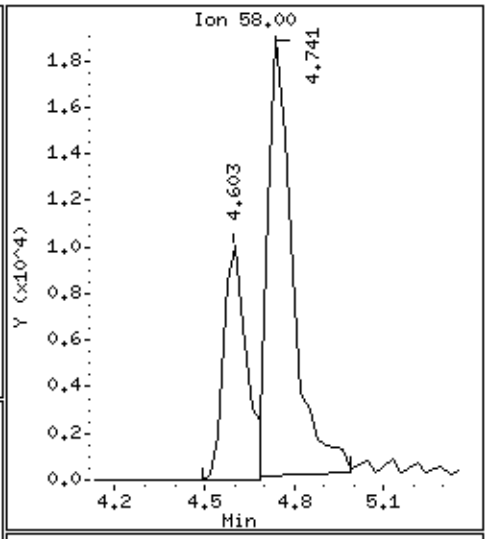
Column phase: RTx-624

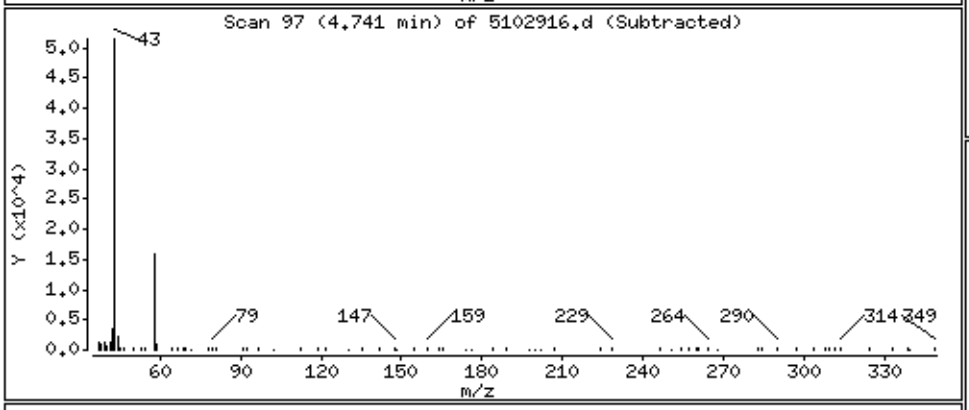
Column diameter: 0.53

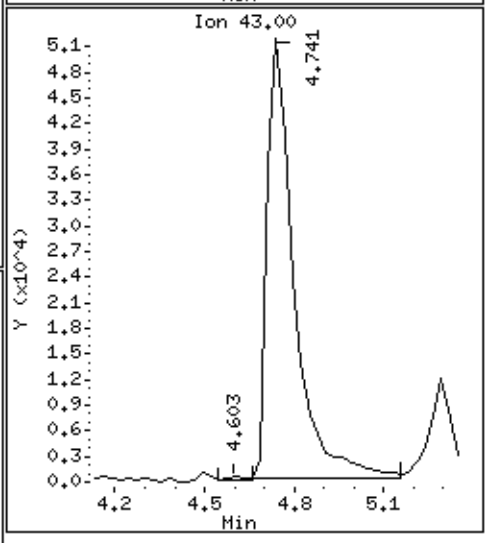
32 Acetone

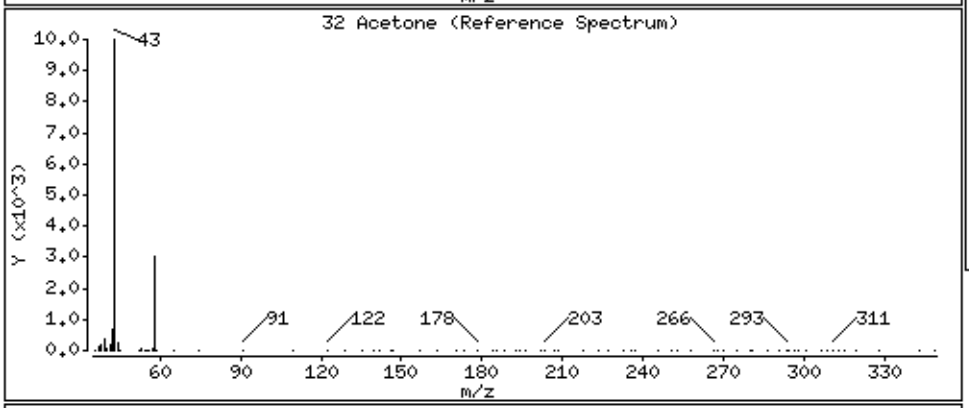
Concentration: 12.236 PPBV

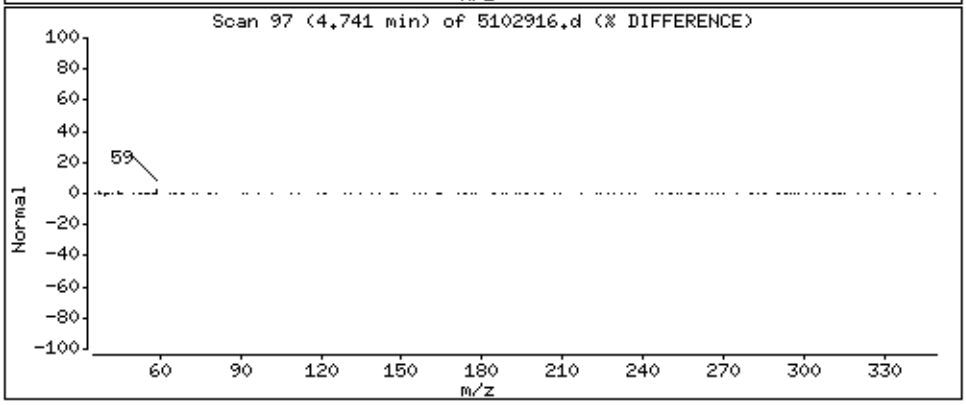












Data File: /chem/msd5.i/5-29oct.b/5102916.d

Date : 29-OCT-2007 19:51

Client ID:

Instrument: msd5.i

Sample Info: 200mL #3735

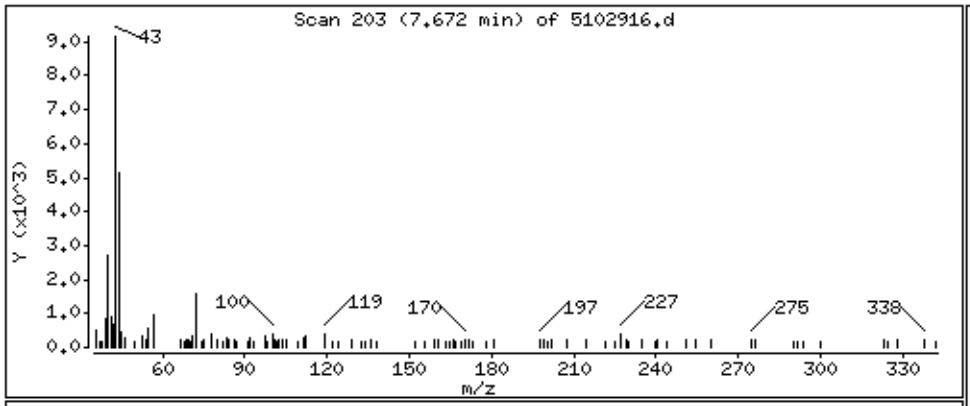
Operator: lmr

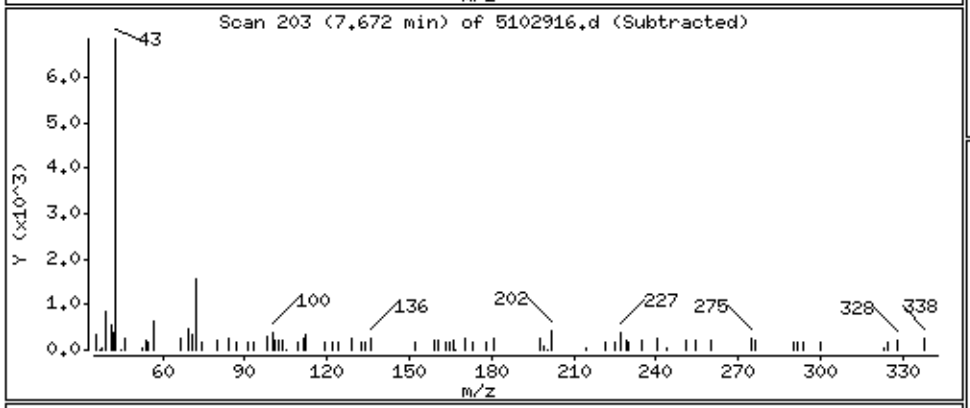
Column phase: RTx-624

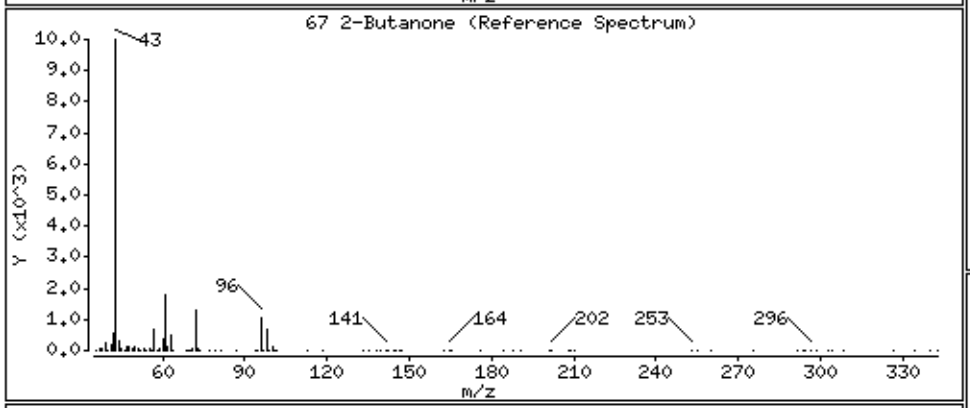
Column diameter: 0.53

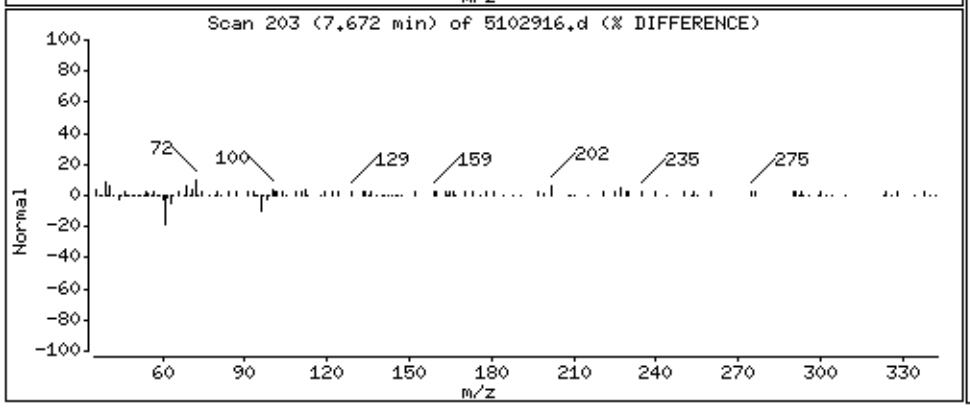
67 2-Butanone

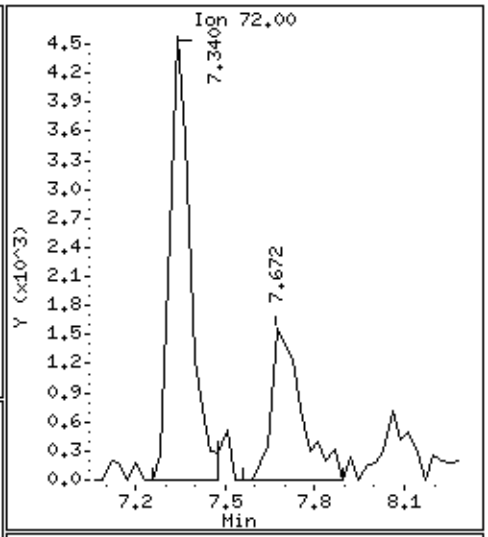
Concentration: 1.713 PPBV

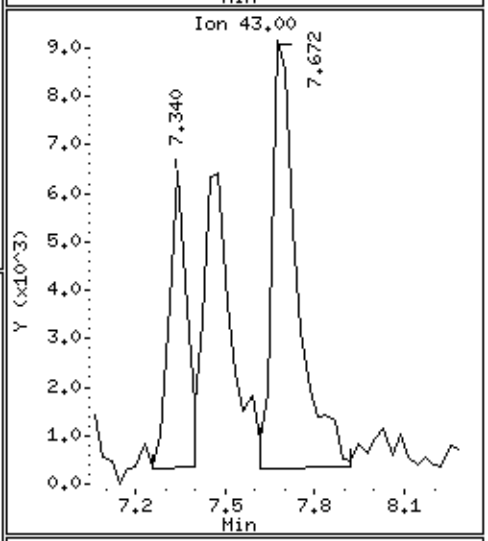


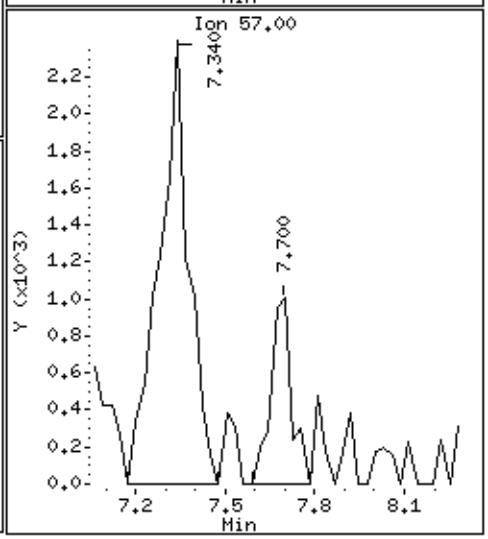












Data File: /chem/msd5.i/5-29oct.b/5102916.d

Date : 29-OCT-2007 19:51

Client ID:

Instrument: msd5.i

Sample Info: 200mL #3735

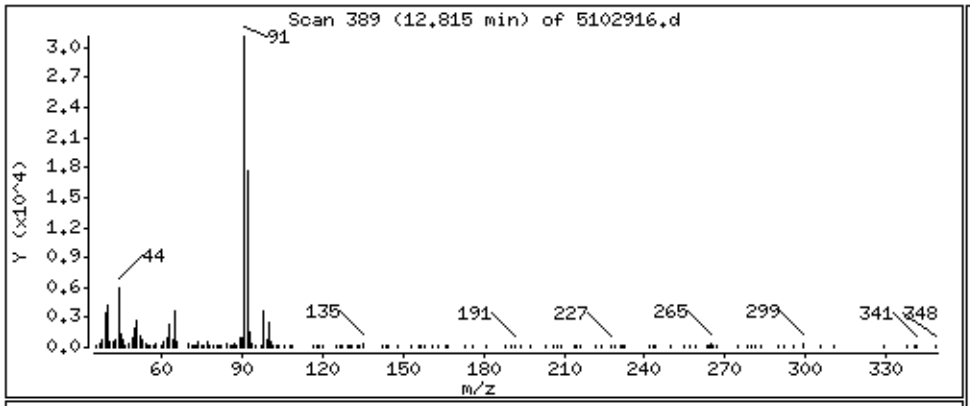
Operator: lmr

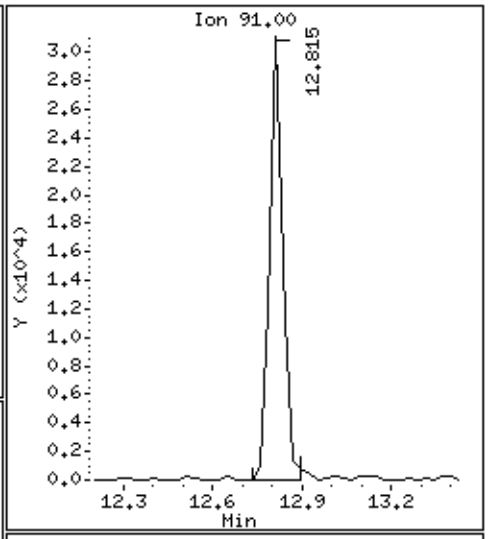
Column phase: RTx-624

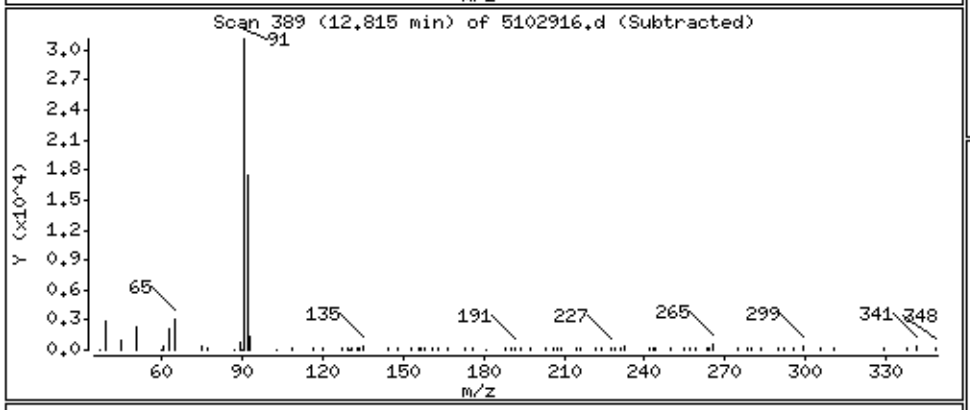
Column diameter: 0.53

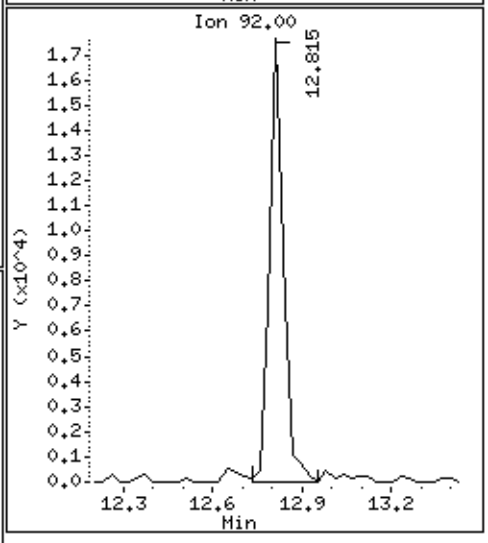
108 Toluene

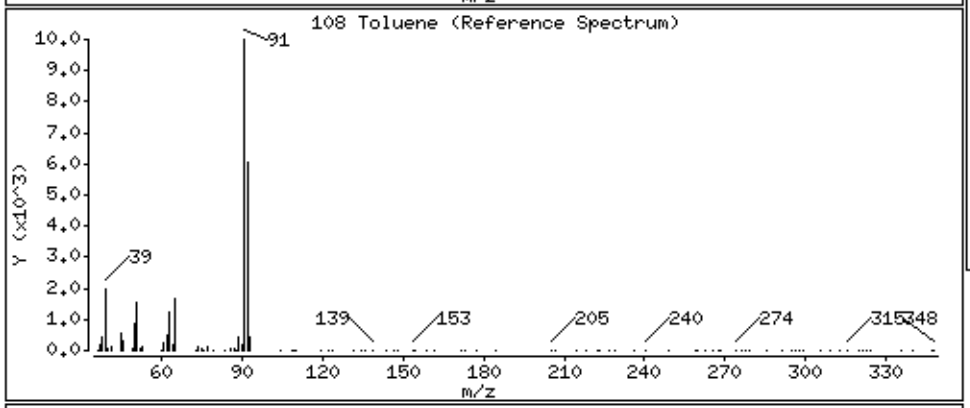
Concentration: 2.490 PPBV

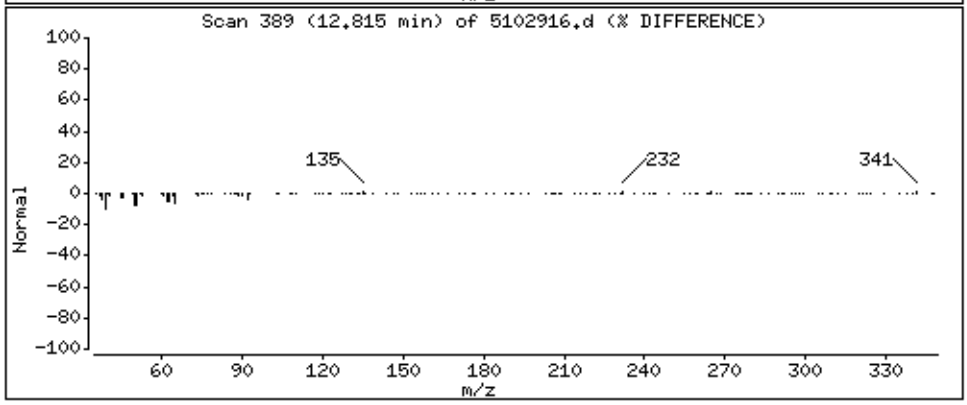












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 1

Lab ID#: 0710475-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.86	0.86	2.7	2.7
Toluene	0.86	2.9	3.2	11
m,p-Xylene	0.86	0.94	3.7	4.1
Hexane	0.86	0.87	3.0	3.1
Heptane	0.86	0.86	3.5	3.5

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 1

Lab ID#: 0710475-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102917**	**Date of Collection:**	**10/17/07**
Dil. Factor:	**1.71**	**Date of Analysis:**	**10/29/07 08:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	0.86	2.7	2.7
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	2.9	3.2	11
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	0.86	0.94	3.7	4.1
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	0.87	3.0	3.1
Cyclohexane	0.86	Not Detected	2.9	Not Detected

0018

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 1

Lab ID#: 0710475-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102917**	**Date of Collection: 10/17/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/29/07 08:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	0.86	3.5	3.5
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	Not Detected	8.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	114	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29oct.b/5102917.d
Lab Smp Id: 0710475-02A
Inj Date : 29-OCT-2007 20:23
Operator : lmr Inst ID: msd5.i
Smp Info : 200mL #25254
Misc Info : 6.5"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-29oct.b/t14q1022a.m
Meth Date : 29-Oct-2007 10:20 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 20:23 Cal File: 5102218.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	419373	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	331682			48.50- 108.50	79.09
8.059	8.059 (1.000)	49	799530			157.98- 217.98	190.65
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1520765	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	259147			0.00- 46.44	17.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1300333	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	730951			27.52- 87.52	56.21
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	513803	23.2994	23.299	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	291913			32.76- 92.76	56.81
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1334965	25.4748	25.475	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	129110			0.00- 39.67	9.67

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	899108			39.83- 99.83	67.35
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	668814	28.4970	28.497	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1096979			137.33- 197.33	164.02
16.575	16.575 (1.105)	176	648207			66.82- 126.82	96.92
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	27396	0.50921	0.8707	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	20190			35.47- 95.47	73.70
6.179	6.179 (0.767)	86	3221			0.00- 45.02	11.76
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.916)	78	36531	0.50287	0.8599	80.00- 120.00	100.00
9.082	9.110 (0.916)	77	8472			0.00- 52.58	23.19
90 Heptane					CAS #: 142-82-5		
9.469	9.497 (0.955)	100	3701	0.50596	0.8652	80.00- 120.00	100.00
9.497	9.497 (0.958)	43	14031			667.74- 727.74	379.11
9.469	9.497 (0.955)	71	6705			275.65- 335.65	181.17
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	107184	1.68529	2.882	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	64432			29.63- 89.63	60.11
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	19405	0.54863	0.9382	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	42558			180.05- 240.05	219.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102917.d
Lab Smp Id: 0710475-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 6.5"Hg -> 5psi

Calibration Date: 29-OCT-2007
Calibration Time: 09:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	630178	378107	882249	419373	-33.45
92 1,4-Difluorobenze	2424401	1454641	3394161	1520765	-37.27
125 Chlorobenzene-d5	1903929	1142357	2665501	1300333	-31.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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: 5-29oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0710475-02A
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 6.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.299	93.20	70-130
$ 107 Toluene-d8	25.000	25.475	101.90	70-130
$ 138 Bromofluorobenzene	25.000	28.497	113.99	70-130

Data File: /chem/msd5.i/5-29oct.b/5102917.d

Date : 29-OCT-2007 20:23

Client ID:

Sample Info: 200mL #25254

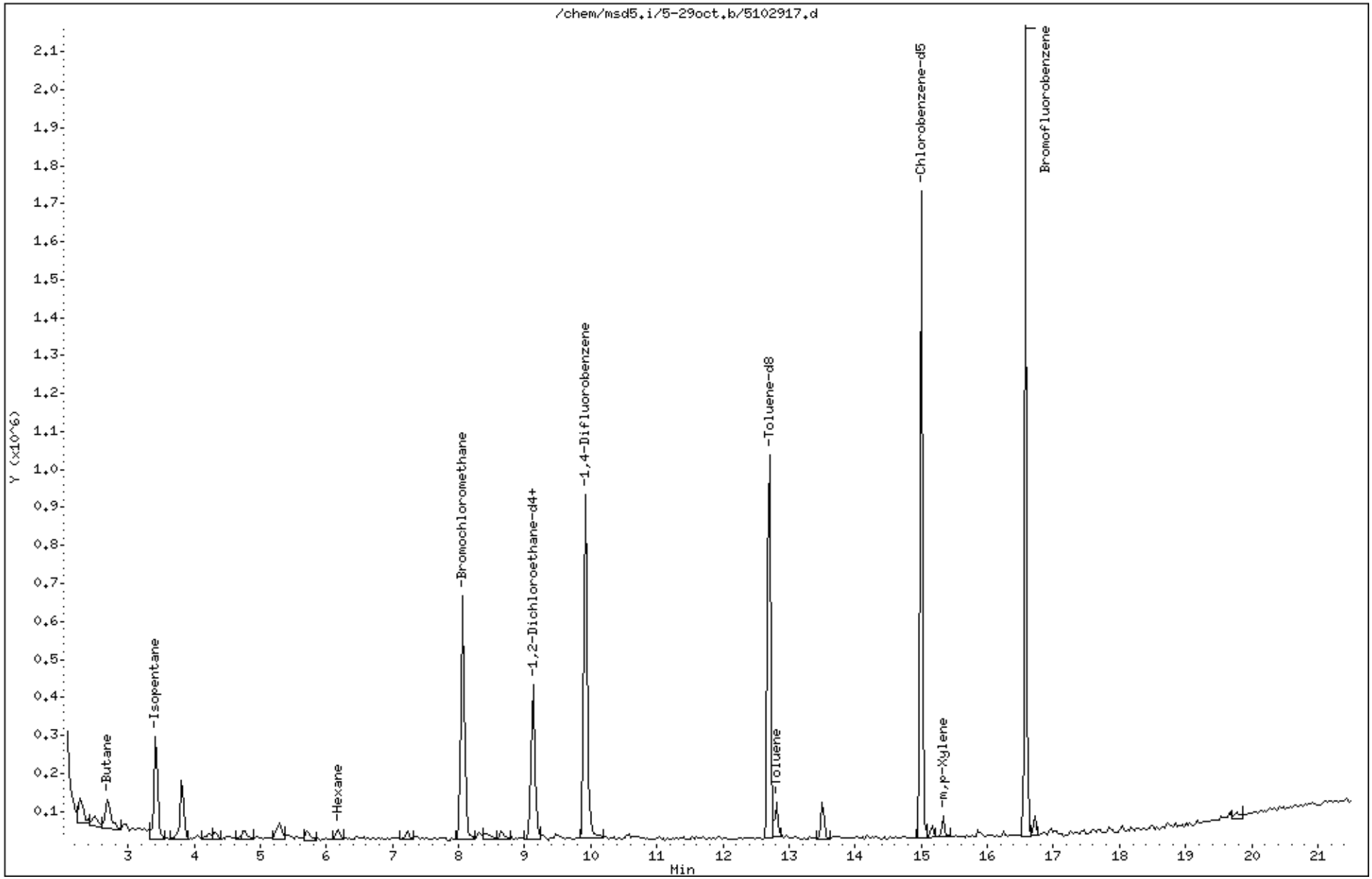
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0024



Data File: /chem/msd5.i/5-29oct.b/5102917.d

Date : 29-OCT-2007 20:23

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25254

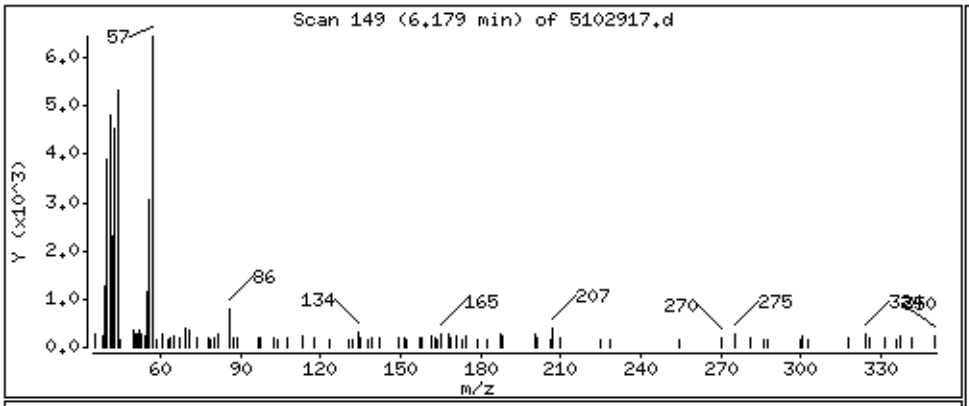
Operator: lmr

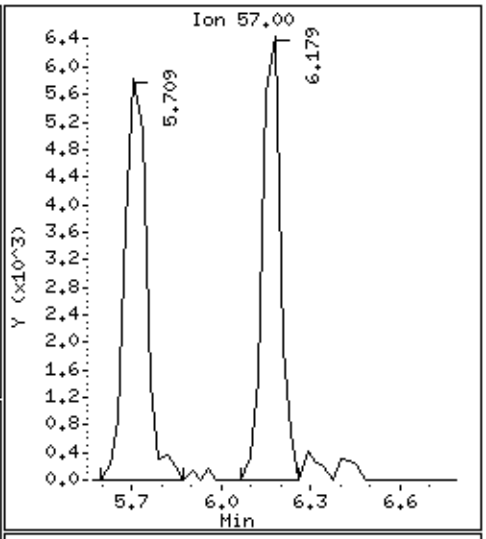
Column phase: RTx-624

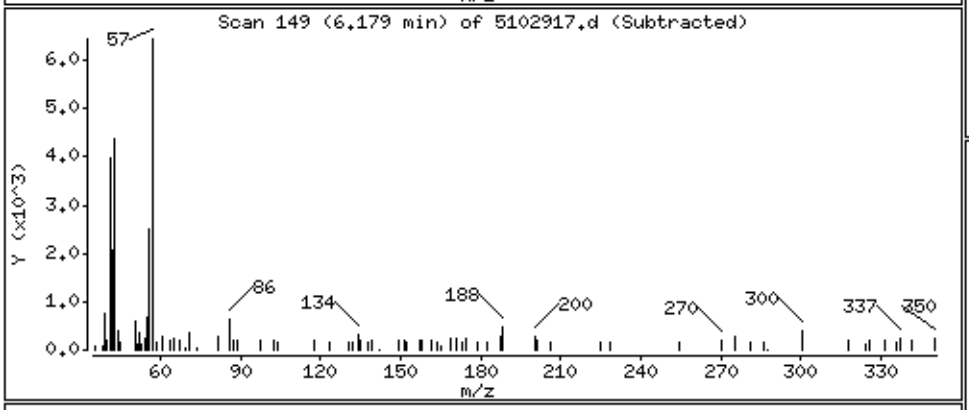
Column diameter: 0.53

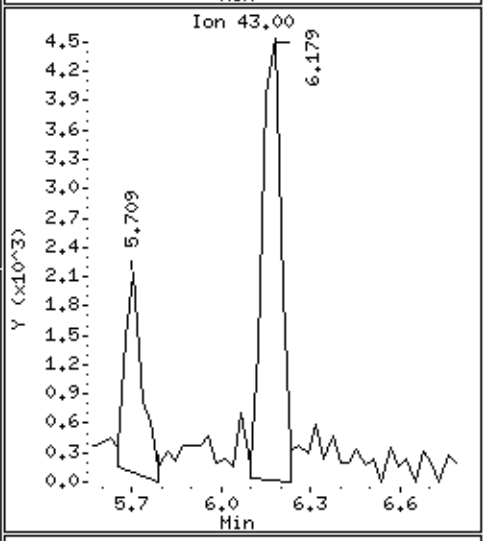
51 Hexane

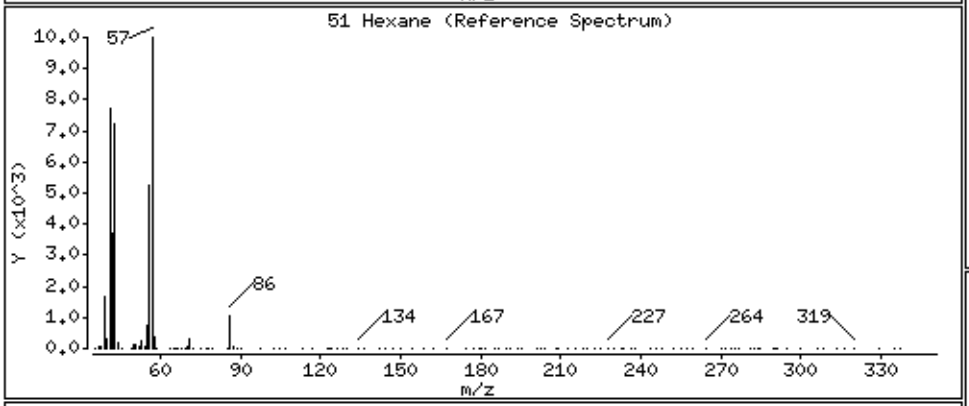
Concentration: 0.8707 PPBV

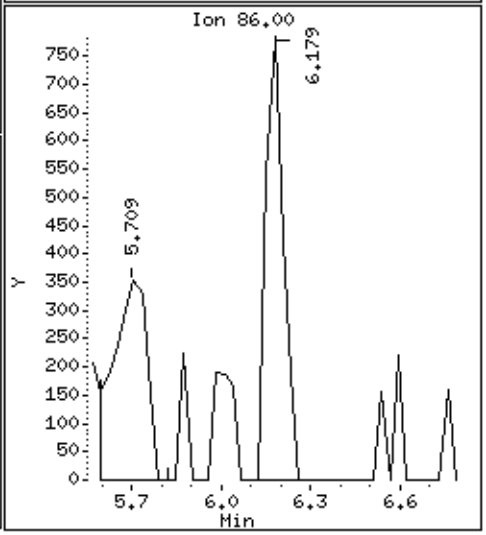


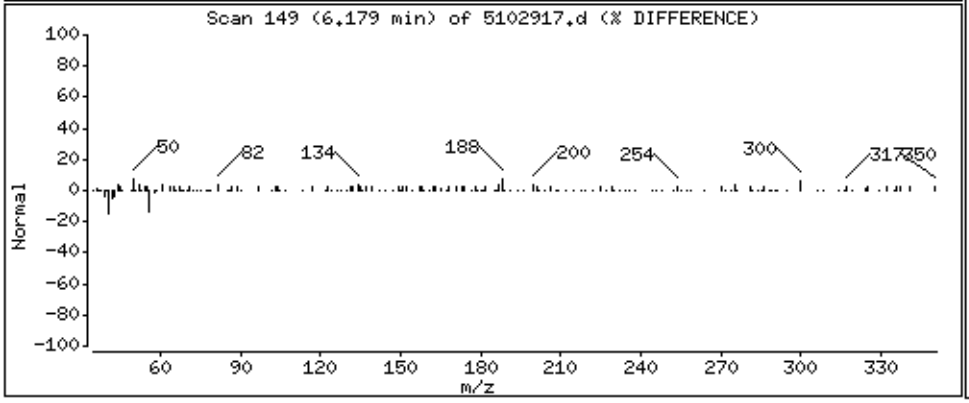












Data File: /chem/msd5.i/5-29oct.b/5102917.d

Date : 29-OCT-2007 20:23

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25254

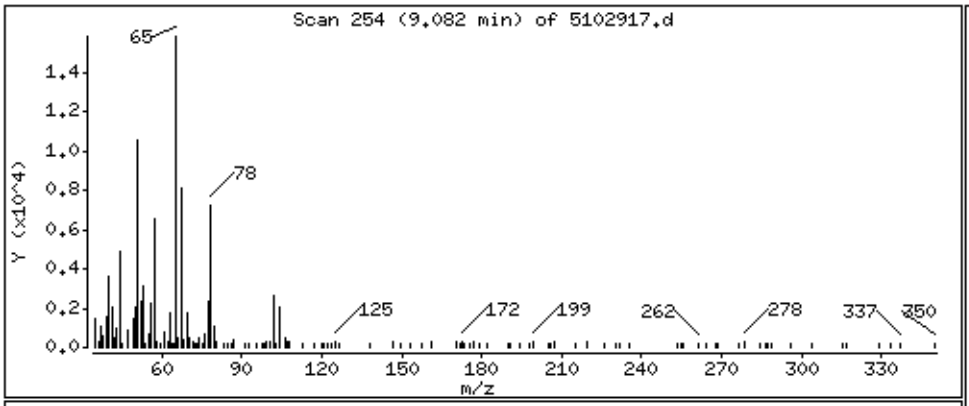
Operator: lmr

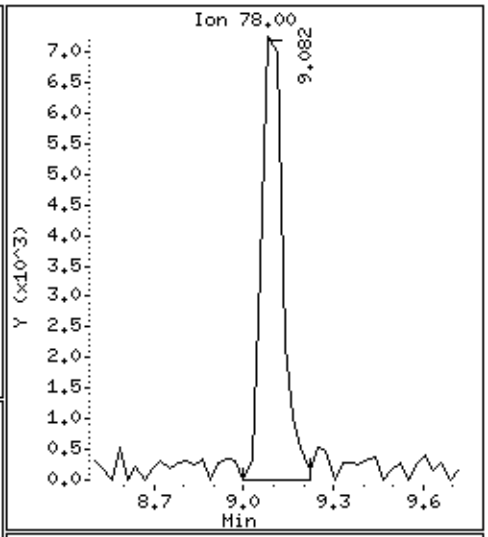
Column phase: RTx-624

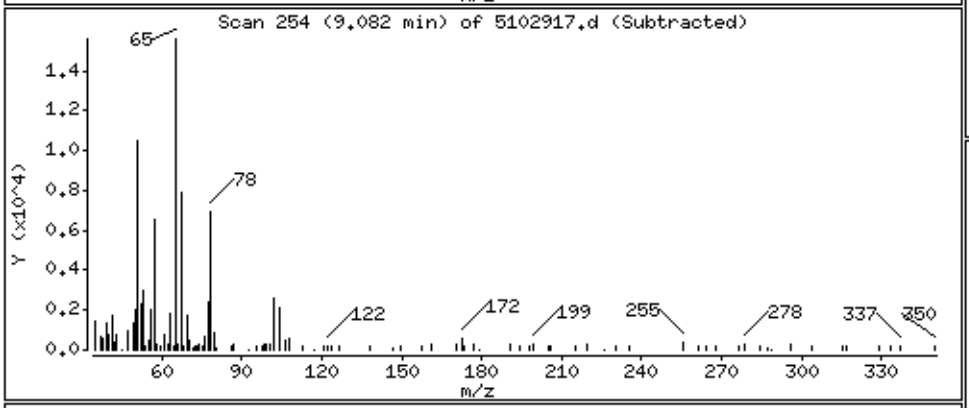
Column diameter: 0.53

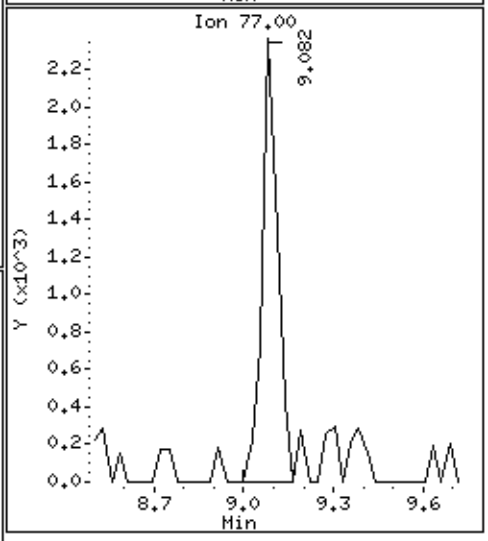
81 Benzene

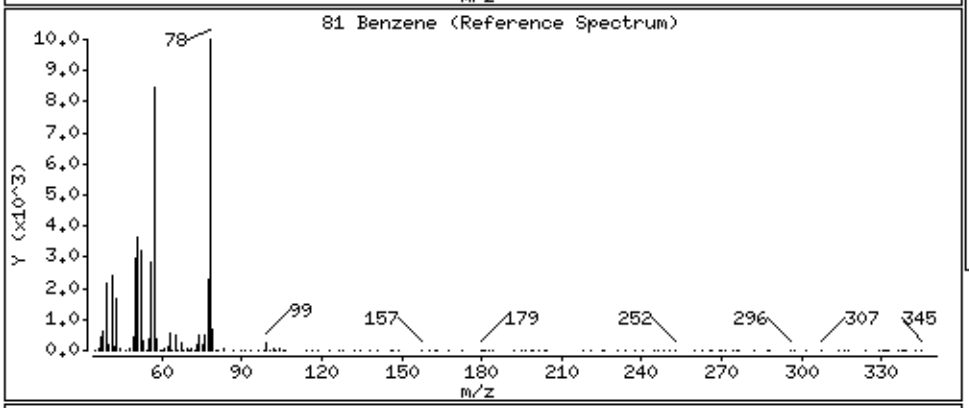
Concentration: 0.8599 PPBV

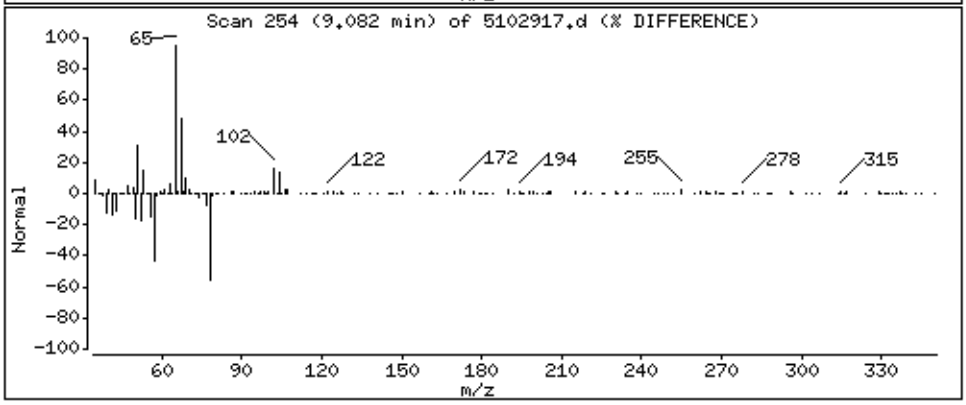












Data File: /chem/msd5.i/5-29oct.b/5102917.d

Date : 29-OCT-2007 20:23

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25254

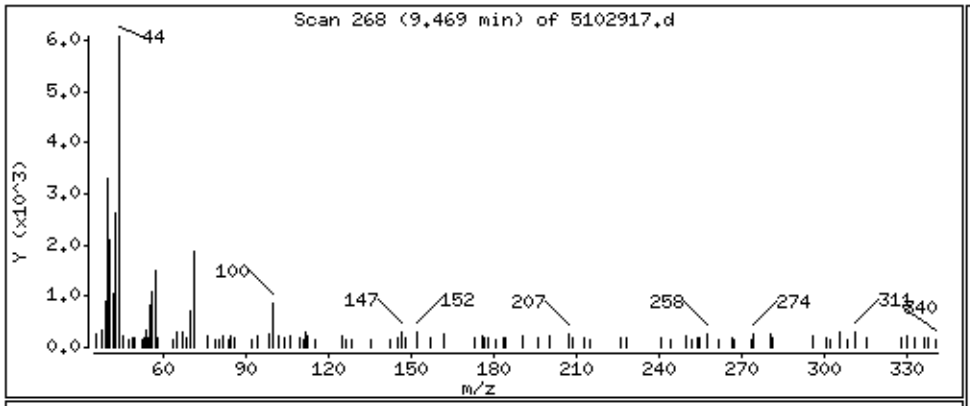
Operator: lmr

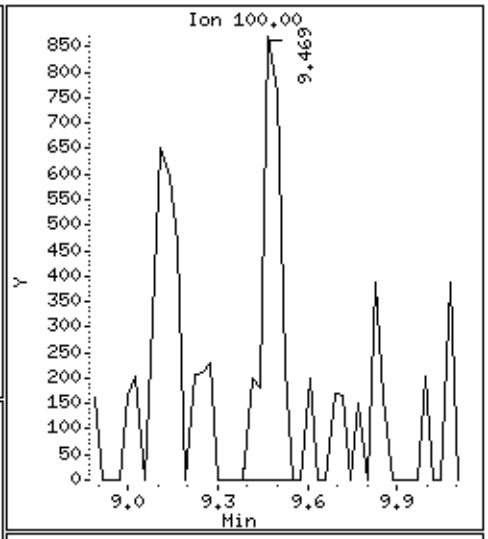
Column phase: RTx-624

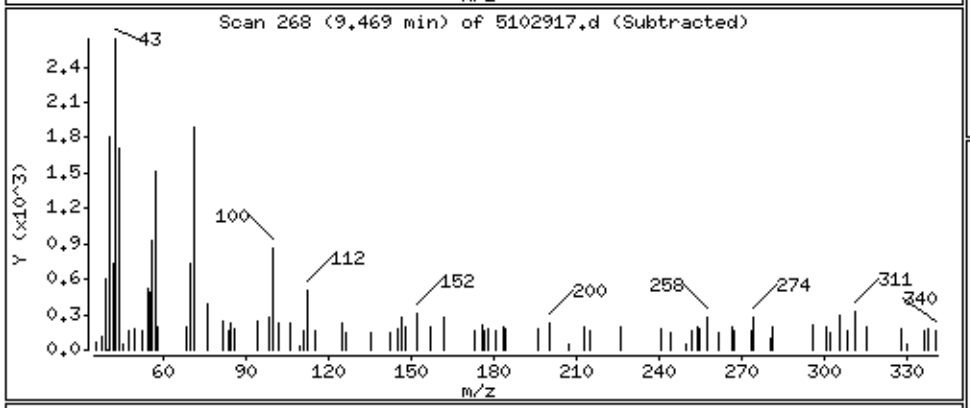
Column diameter: 0.53

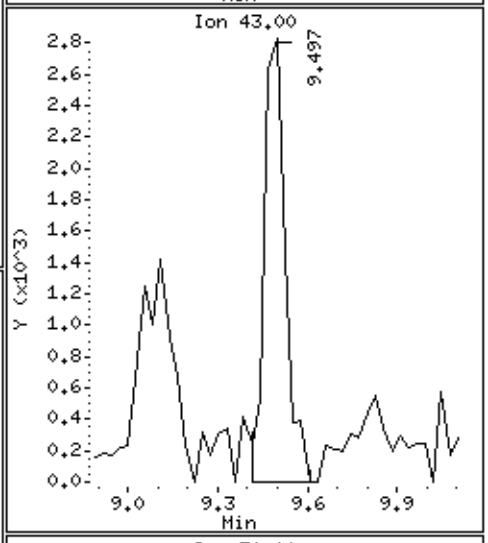
90 Heptane

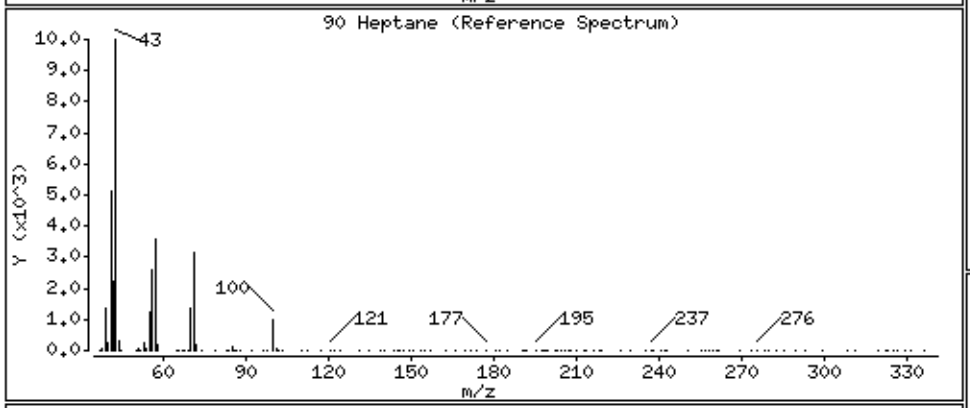
Concentration: 0.8652 PPBV

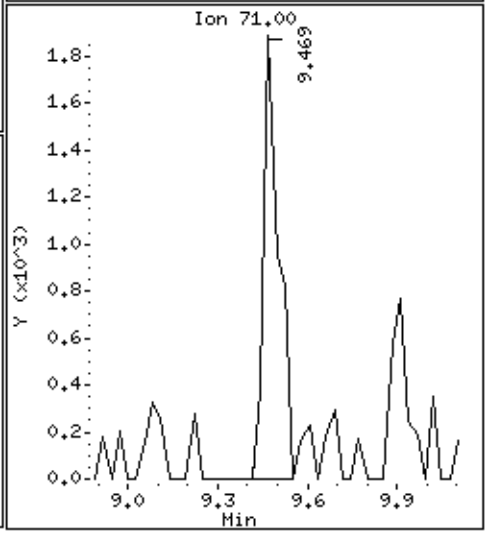


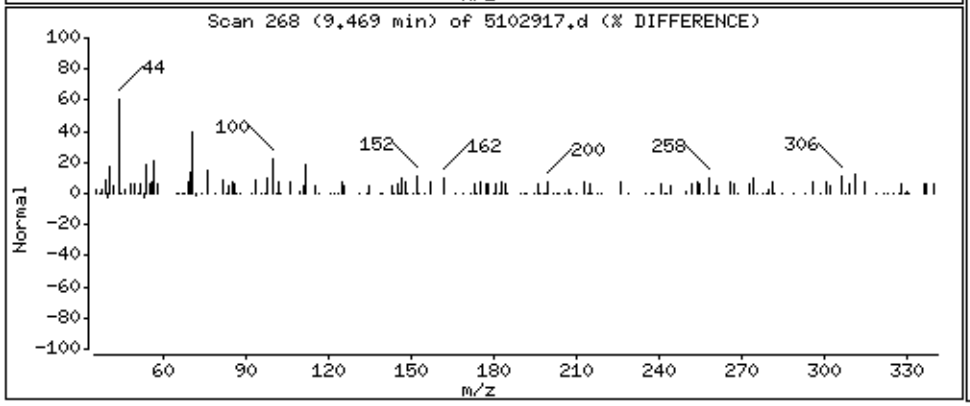












Data File: /chem/msd5.i/5-29oct.b/5102917.d

Date : 29-OCT-2007 20:23

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25254

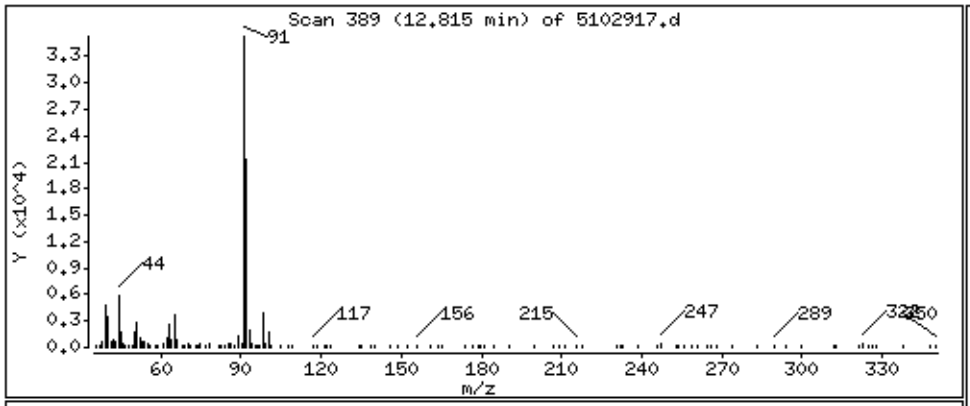
Operator: lmr

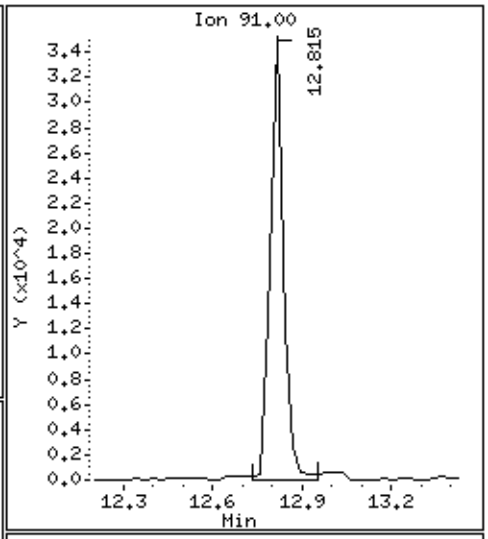
Column phase: RTx-624

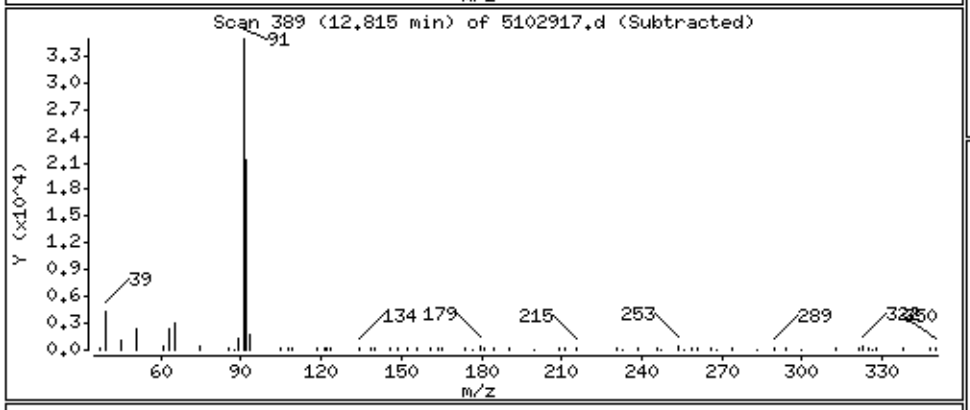
Column diameter: 0.53

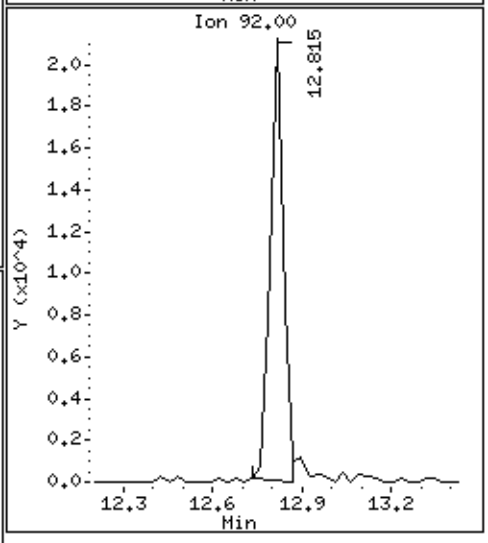
108 Toluene

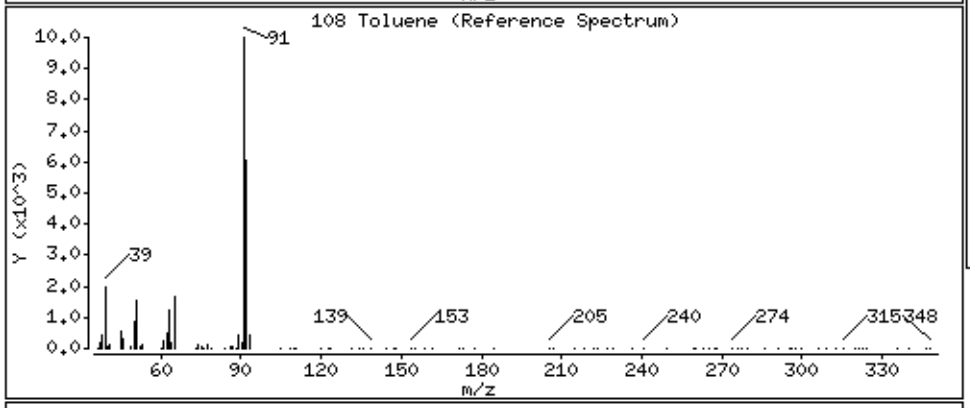
Concentration: 2.882 PPBV

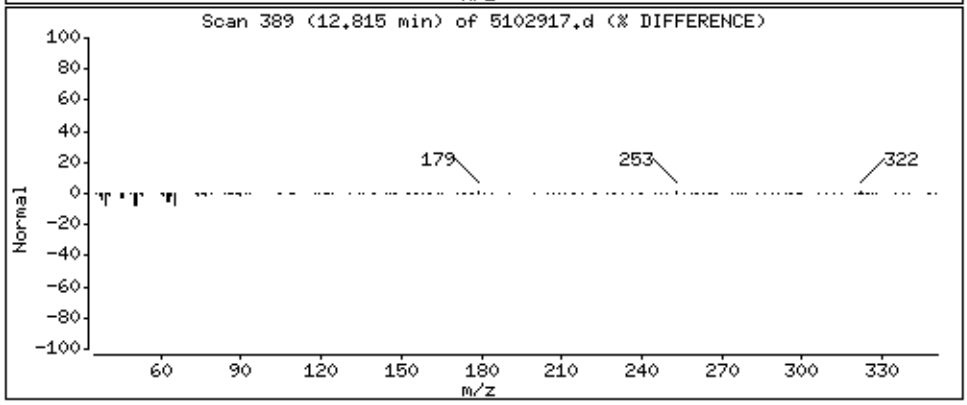












Data File: /chem/msd5.i/5-29oct.b/5102917.d

Date : 29-OCT-2007 20:23

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25254

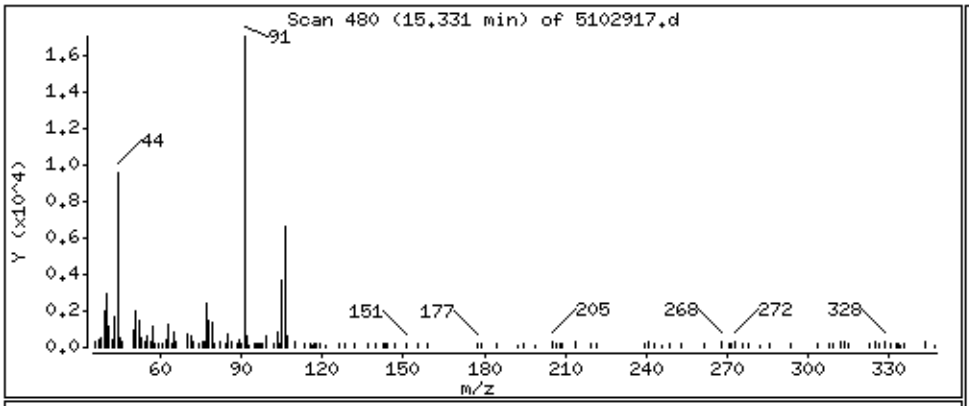
Operator: lmr

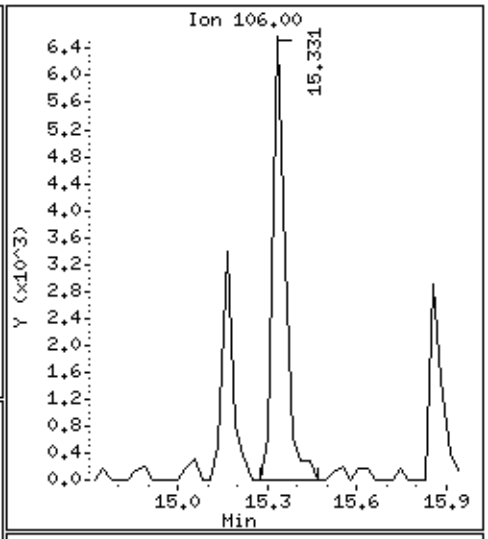
Column phase: RTx-624

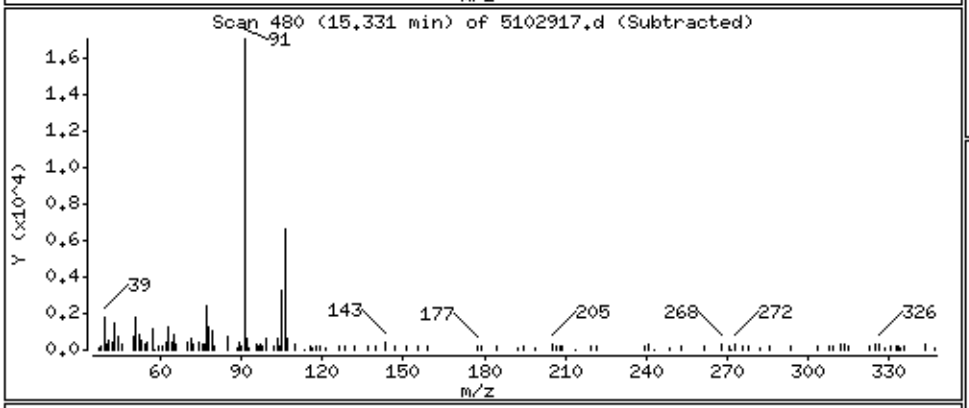
Column diameter: 0.53

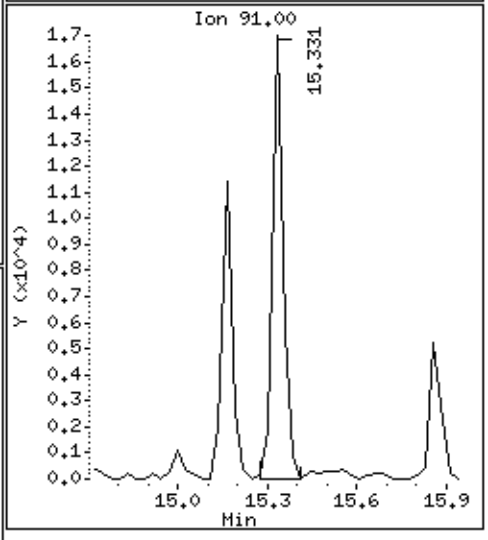
130 m,p-Xylene

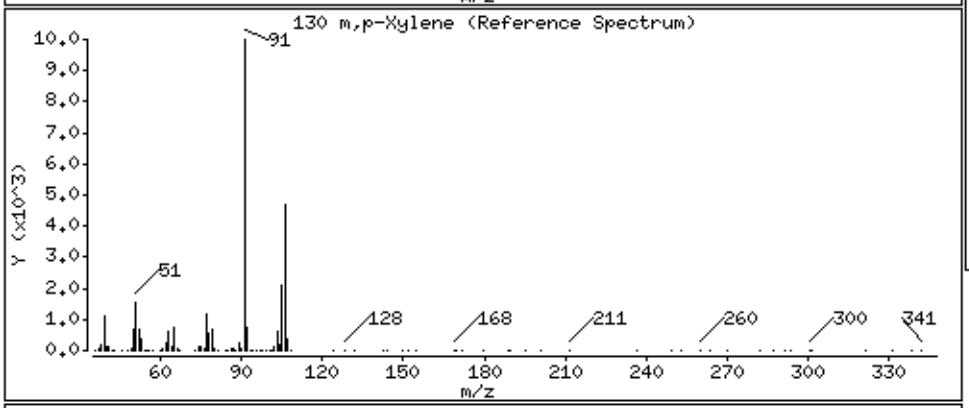
Concentration: 0.9382 PPBV

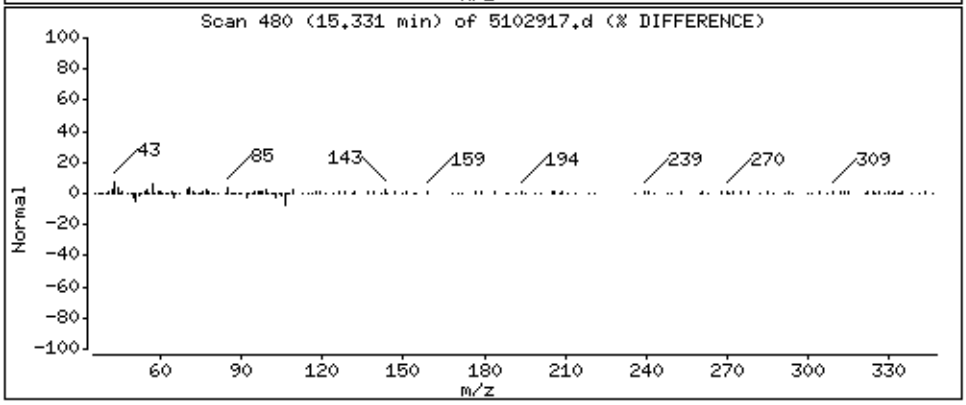












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0710475-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/07 11:27 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0710475-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/07 11:27 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	115	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29oct.b/5102905.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 29-OCT-2007 11:27
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #12941
Misc Info : humid
Comment :
Method : /chem/msd5.i/5-29oct.b/t14q1022a.m
Meth Date : 29-Oct-2007 10:20 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 20:23 Cal File: 5102218.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	456837	25.0000			80.00- 120.00	100.00
8.059	8.059 (1.000)	128	348973				48.50- 108.50	76.39
8.059	8.059 (1.000)	49	883734				157.98- 217.98	193.45
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.911	9.939 (1.000)	114	1681879	25.0000			80.00- 120.00	100.00
9.911	9.939 (1.000)	88	278016				0.00- 46.44	16.53
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1346786	25.0000			80.00- 120.00	100.00
14.999	14.999 (1.000)	82	784088				27.52- 87.52	58.22
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	586670	24.4220	24.422		80.00- 120.00	100.00
9.137	9.137 (1.134)	67	326288				32.76- 92.76	55.62
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1499924	25.8808	25.881		80.00- 120.00	100.00
12.704	12.704 (1.282)	70	154871				0.00- 39.67	10.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	984258			39.83- 99.83	65.62
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	699691	28.7843	28.784	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1184851			137.33- 197.33	169.34
16.575	16.575 (1.105)	176	666197			66.82- 126.82	95.21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102905.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: humid

Calibration Date: 29-OCT-2007
Calibration Time: 09:06
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	630178	378107	882249	456837	-27.51
92 1,4-Difluorobenze	2424401	1454641	3394161	1681879	-30.63
125 Chlorobenzene-d5	1903929	1142357	2665501	1346786	-29.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

Report Date: 29-Oct-2007 11:35

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-29oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.422	97.69	70-130
$ 107 Toluene-d8	25.000	25.881	103.52	70-130
$ 138 Bromofluorobenzene	25.000	28.784	115.14	70-130

Data File: /chem/msd5.i/5-29oct.b/5102905.d

Date : 29-OCT-2007 11:27

Client ID: Lab Blank

Sample Info: 200ml #12941

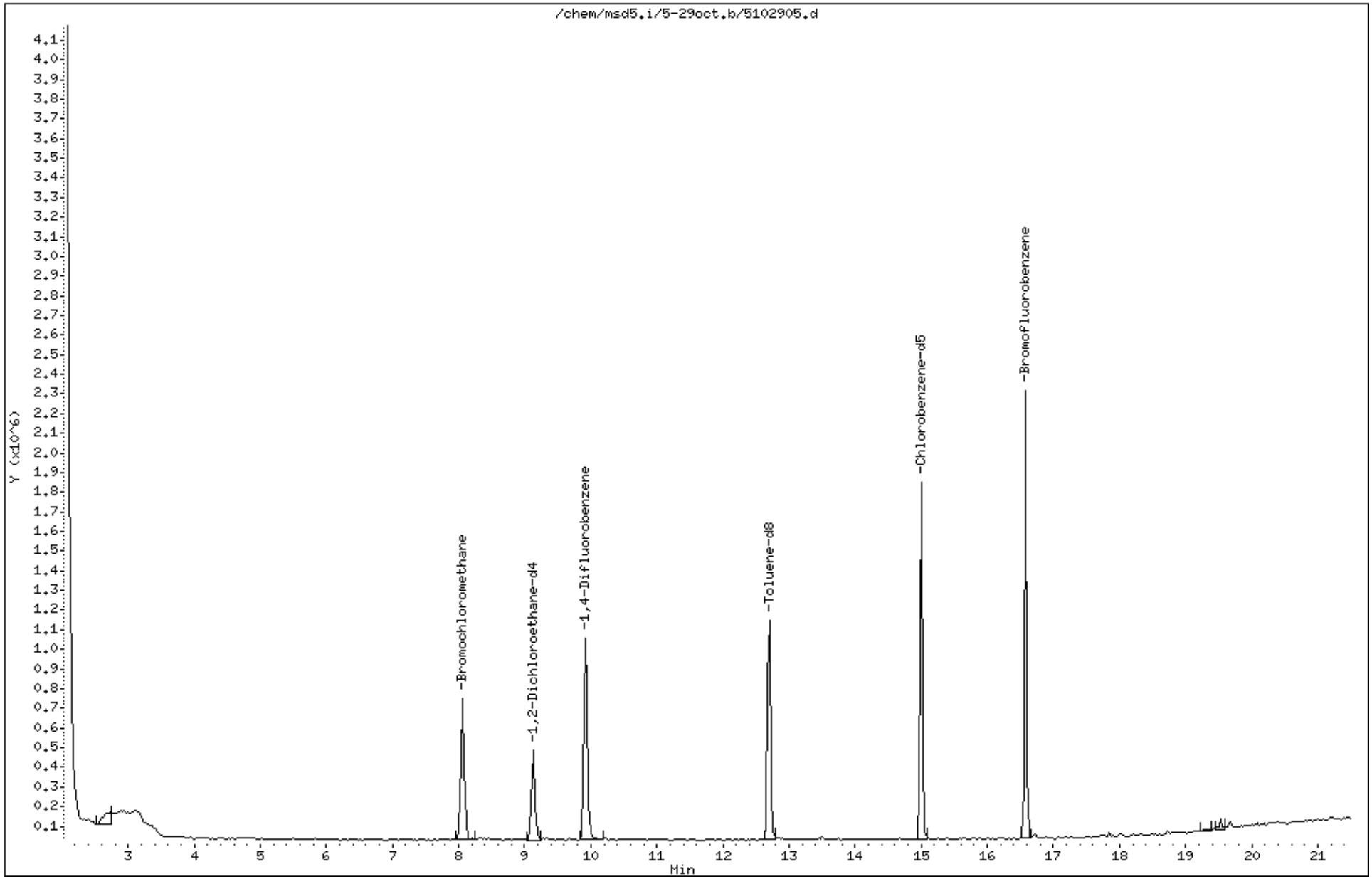
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0037



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0710475

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS 5	97		101		115				0
02	DW AMS 1	93		102		114				0
03	Lab Blank	98		104		115				0
04	CCV	97		104		118				0
05	LCS	105		107		121				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

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 Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0710475

Lab File ID: 5102902.d | Date Analyzed: 10/29/2007

Instrument ID: msd5.i | Time Analyzed: 09:06 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1903929		15		2424401		9.94		630178		8.06	
	UPPER LIMIT	2665501		15.33		3394161		10.27		882249		08.39	
	LOWER LIMIT	1142357		14.67		1454641		09.61		378107		07.73	
	CLIENT SAMPLE NO												
01	UW AMS 5	1288543		15		1565257		9.91		407377		8.06	
02	DW AMS 1	1300333		15		1520765		9.91		419373		8.06	
03	Lab Blank	1346786		15		1681879		9.91		456837		8.06	
04	CCV	1903929		15		2424401		9.94		630178		8.06	
05	LCS	1499394		15		1855974		9.91		479259		8.06	
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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-OCT-2007 14:23
End Cal Date : 22-OCT-2007 20:23
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-22oct.b/t14q1022a.m
Cal Date : 23-Oct-2007 08:55 lrandolp
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-22oct.b/5102209.d
Level 2: /chem/msd5.i/5-22oct.b/5102218.d
Level 3: /chem/msd5.i/5-22oct.b/5102211.d
Level 4: /chem/msd5.i/5-22oct.b/5102212.d
Level 5: /chem/msd5.i/5-22oct.b/5102213.d
Level 6: /chem/msd5.i/5-22oct.b/5102214.d
Level 7: /chem/msd5.i/5-22oct.b/5102215.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	1.37318	1.82072	1.68976	1.66311	1.70856	1.65106	10.087
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-OCT-2007 14:23
End Cal Date : 22-OCT-2007 20:23
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-22oct.b/t14q1022a.m
Cal Date : 23-Oct-2007 08:55 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.97203	2.92879	3.39049	2.98774	2.94931	3.17025	3.06644	5.898
9 Freon 114	+++++	2.04386	2.20201	2.99904	2.78427	2.70483	2.61598	2.55833	14.220
10 Chloromethane	+++++	+++++	1.80959	2.33523	2.16061	2.17772	2.06259	2.10915	9.193
11 Butane	+++++	+++++	0.47027	0.57793	0.54271	0.52926	0.51725	0.52748	7.438
12 1,3-Butadiene	+++++	1.22560	1.50663	2.08981	1.96512	1.91833	1.85158	1.75951	18.575
13 Vinyl Chloride	+++++	1.96687	1.94560	2.49099	2.27430	2.22742	2.13323	2.17307	9.434
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	1.08573	1.15796	1.59163	1.45065	1.48642	1.45903	1.37190	14.682
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	+++++	+++++	2.40931	3.26056	3.02116	2.99926	2.89395	2.91685	10.759

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-OCT-2007 14:23
End Cal Date : 22-OCT-2007 20:23
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-22oct.b/t14q1022a.m
Cal Date : 23-Oct-2007 08:55 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
19 Chloroethane	+++++	0.80774	0.67066	1.28479	1.13987	1.10664	1.08598	1.01595	22.589
20 Trichlorofluoromethane/Fr11	+++++	2.69280	2.61334	3.46647	3.16096	3.20499	3.11205	3.04177	10.719
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
26 Ethanol	+++++	+++++	0.45927	0.71734	0.67286	0.59107	0.59790	0.60769	16.180
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++	1.71636	1.66112	2.24588	2.02042	2.02976	1.96801	1.94026	11.213
31 1,1-Dichloroethene	+++++	2.22259	2.19020	2.90111	2.70298	2.74307	2.69405	2.57567	11.483
32 Acetone	+++++	+++++	0.74621	1.01087	0.97175	1.01266	1.02109	0.95251	12.272
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++	3.75675	3.81552	5.34766	4.98953	5.08973	4.93610	4.65588	14.791
36 2-Propanol	+++++	+++++	1.99805	3.32486	3.26618	3.41487	3.33904	3.06860	19.579
37 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 3-Chloropropene	+++++	+++++	0.56385	0.83821	0.79907	0.81577	0.77343	0.75807	14.658
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	2.18521	1.77151	2.31425	2.17048	2.18120	2.08612	2.11813	8.727
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	1.08772	0.86386	1.48678	1.28063	1.23250	0.99374	1.15754	19.206
47 trans-1,2-Dichloroethene	+++++	1.76562	1.31103	1.94700	1.77490	1.82000	1.74879	1.72789	12.529

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	2.70852	2.56592	3.63467	3.40148	3.49813	3.43474	3.20724	14.061
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.79751	2.52261	3.35782	3.05024	3.13636	3.02830	2.98214	9.683
56 Vinyl Acetate	+++++	+++++	0.19261	0.35759	0.38177	0.43056	0.44002	0.36051	27.697
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.81538	1.76366	2.33909	2.20881	2.21055	2.19051	2.08800	11.388
67 2-Butanone	+++++	0.38469	0.55259	0.77014	0.75917	0.80673	0.79724	0.67843	25.328

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	2.88477	1.73664	2.44371	2.31255	2.38082	2.37784	2.35606	15.582
72 Chloroform	2.88144	2.27507	1.91442	2.80342	2.55105	2.57297	2.53218	2.50436	13.040
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.84310	1.46939	2.29242	2.17782	2.19706	2.11841	2.01637	15.279
75 1,1,1-Trichloroethane	+++++	1.83530	1.72545	2.53452	2.40199	2.46032	2.41432	2.22865	15.796
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	1.48886	1.36650	2.19180	1.98476	2.09741	2.07501	1.86739	18.692
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2,2,4-Trimethylpentane	+++++	5.91411	6.12149	9.65853	9.11265	9.48135	9.31180	8.26666	21.200
81 Benzene	1.60782	1.10810	0.95053	1.25901	1.18550	1.14033	1.10830	1.19423	17.175
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,2-Dichloroethane	+++++	0.32293	0.39576	0.49534	0.47923	0.46108	0.46220	0.43609	14.900
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Heptane	+++++	0.10123	0.08111	0.13694	0.13835	0.13396	0.12989	0.12025	19.611
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Trichloroethene	+++++	0.38785	0.37193	0.47975	0.44547	0.43015	0.42997	0.42419	9.227
94 Methyl Cyclohexane	+++++	0.58677	0.48988	0.68817	0.69618	0.65872	0.65671	0.62940	12.470
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.30081	0.29283	0.45450	0.43482	0.41607	0.41317	0.38537	18.221
99 1,4-Dioxane	+++++	+++++	0.18485	0.25059	0.25387	0.24239	0.24224	0.23479	12.087
100 Bromodichloromethane	+++++	0.46880	0.42860	0.63463	0.62150	0.59996	0.60190	0.55923	15.647

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.29583	0.28858	0.46420	0.46695	0.46239	0.47369	0.40861	22.094
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.22701	0.19706	0.35085	0.35624	0.35777	0.36515	0.30901	24.546
108 Toluene	+++++	0.90879	0.87703	1.19029	1.11991	1.08723	1.08989	1.04552	11.891
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 trans-1,3-Dichloropropene	+++++	0.22128	0.24698	0.55733	0.57564	0.59637	0.62003	0.46961	39.133	<-
114 1,1,2-Trichloroethane	+++++	0.43437	0.34847	0.52247	0.50000	0.48978	0.47714	0.46204	13.604	
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Tetrachloroethene	+++++	0.44097	0.48144	0.58462	0.56609	0.55104	0.52277	0.52449	10.402	
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 2-Hexanone	+++++	+++++	0.31439	0.57516	0.61905	0.64867	0.66455	0.56437	25.483	
120 Dibromochloromethane	+++++	0.49169	0.44975	0.70106	0.69916	0.71180	0.69259	0.62434	19.203	
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
122 1,2-Dibromoethane	+++++	0.57359	0.51912	0.77309	0.74955	0.73677		
	0.72777						0.67998	15.594
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Chlorobenzene	+++++	1.04105	0.95915	1.19763	1.12907	1.11211		
	1.07665						1.08594	7.503
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.51189	0.43541	0.64890	0.62514	0.62170		
	0.58848						0.57192	14.365
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 m,p-Xylene	+++++	0.49414	0.46326	0.81182	0.78817	0.77684		
	0.74587						0.68002	23.188
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
132 o-Xylene	+++++	0.57912	0.48089	0.75119	0.71320	0.71957		
	0.67806						0.65367	15.810

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Styrene	0.95744	0.66221	0.60389	1.13173	1.12894	1.13942	1.12721	0.96441	24.448
134 Bromoform	+++++	0.41949	0.35703	0.62311	0.61994	0.62164	0.60455	0.54096	22.202
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Cumene	2.20705	1.39829	1.37920	2.22157	2.14858	2.15967	1.67102	1.88363	20.566
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.84812	0.86767	1.16482	1.09781	1.09286	1.03257	1.01731	12.832
142 Propylbenzene	+++++	1.60907	1.73681	2.68377	2.59565	2.62830	2.26590	2.25325	21.052
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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144 4-Ethyltoluene	+++++	1.36605	1.45557	2.27801	2.20279	2.23558	1.97563	1.91894	21.275
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.24488	1.31487	2.07970	2.01211	2.01199	1.54277	1.70105	22.294
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	0.99166	1.09367	1.69245	1.67131	1.72454	1.68735	1.47683	22.906
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-OCT-2007 14:23
End Cal Date : 22-OCT-2007 20:23
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-22oct.b/t14q1022a.m
Cal Date : 23-Oct-2007 08:55 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,3-Dichlorobenzene	+++++	0.98386	0.97736	1.18681	1.13555	1.12961	1.08167	1.08248	7.915	
156 1,4-Dichlorobenzene	+++++	0.94823	1.02578	1.44162	1.37700	1.36264	1.22474	1.23000	16.467	
157 alpha-Chlorotoluene	+++++	0.90218	0.75273	1.70564	1.92834	2.10081	1.38346	1.46219	37.553	<-
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
159 1,2-Dichlorobenzene	+++++	1.09864	1.04644	1.22942	1.18653	1.15098	1.08947	1.13358	5.990	
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
163 1,2,4-Trichlorobenzene	+++++	+++++	0.71354	0.76053	0.78142	0.78864	0.78262	0.76535	4.031	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-OCT-2007 14:23
End Cal Date : 22-OCT-2007 20:23
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-22oct.b/t14q1022a.m
Cal Date : 23-Oct-2007 08:55 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	0.49336	0.57658	0.53493	0.52807		
	0.49845						0.52628	6.349
165 Naphthalene	+++++	+++++	2.40236	2.70879	3.18970	2.88440		
	1.51312						2.53967	25.233
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.26062	1.31147	1.27582	1.21940	1.40170		
	1.41856						1.31460	6.074
$ 107 Toluene-d8	+++++	0.83733	0.84573	0.86336	0.86595	0.86196		
	0.89445						0.86146	2.288
$ 138 Bromofluorobenzene	+++++	0.41683	0.42976	0.45800	0.45495	0.47462		
	0.47317						0.45122	5.181

Calibration History

Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Start Cal Date: 22-OCT-2007 14:23
End Cal Date : 22-OCT-2007 20:23

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
22-OCT-2007 14:23	AFCEElow	/chem/msd5.i/5-22oct.b/5102209.d
Cal Level: 2 , Cal Amount: 0.50000		
22-OCT-2007 20:23	AT04Low+ENSR	/chem/msd5.i/5-22oct.b/5102218.d
Cal Level: 3 , Cal Amount: 2.00000		
22-OCT-2007 15:18	AT04MDL+ENSR	/chem/msd5.i/5-22oct.b/5102211.d
Cal Level: 4 , Cal Amount: 25.00000		
22-OCT-2007 15:46	AT04MDL+ENSR	/chem/msd5.i/5-22oct.b/5102212.d
Cal Level: 5 , Cal Amount: 50.00000		
22-OCT-2007 16:13	AT04MDL+ENSR	/chem/msd5.i/5-22oct.b/5102213.d
Cal Level: 6 , Cal Amount: 100.00000		
22-OCT-2007 16:41	AT04MDL+ENSR	/chem/msd5.i/5-22oct.b/5102214.d
Cal Level: 7 , Cal Amount: 200.00000		
22-OCT-2007 17:13	AT04MDL+ENSR	/chem/msd5.i/5-22oct.b/5102215.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000
22-OCT-2007 16:13 | AT04MDL+ENSR | /chem/msd5.i/5-22oct.b/5102213a.d

@ Air Toxics Ltd.

MSD-5

Logbook #: 1586

0059

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	25.54
75	30.0 – 60.0% of mass 95	44.61
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.21
173	Less than 2.0% of mass 174	(0.66)[1]
174	Greater than 50.0% of mass 95	59.75
175	5.0 – 9.0% of mass 174	(7.33)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.25)[1]
177	5.0 – 9.0% of mass 176	(6.42)[2]

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

BFB Injection Date: 10/22/07
BFB Injection Time: 1358
BFB File ID: 5102208
Tekmar Purge Flow: — UR 10/23/07
Vacuum: 3.22×10^{-6}

IS/S Std.#:	1487-365	Exp. Date: 12/10/07
BCM	430369	
1,4-DFB	1595908	
CB-d5	1261170	

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

Verify 176/174 m/z Ratio: 1247232/1295672 x100 = 96.25

NOAH Cart #: N4 **File #:** N4

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\quad)}{(\quad)} =$ _____

Reported Result _____

File ID:	5102213
Compound:	
Initials:	SS 10/22/07

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	5102207	BFB Tune Check	1476-65	50ng	2µl	1.00	10/22/07	1348	UR	wrong fragment
2	✓	5102208	BFB Tune Check	↓	↓	↓			1358	UR	
3	✓	09	ICAL Lvl 1	1576-46	0.3ppbv	0.3mL			1423	SS	
4	X	10	2		0.5ppbv	0.5mL			1451	SS	
5	✓	11	3		2.0ppbv	2.0mL			1518	SS	
6	✓	12	4		25ppbv	25mL			1546	SS	± 14q 1022a
7	✓	13	5		50ppbv	50mL			1613	SS	
8	✓	14	6		100ppbv	100mL			1641	SS	
9	✓	15	7	↓	200ppbv	200mL	↓		1713	SS	
10	X	16	System Blank	12891	Humid	200mL		↓	1871	SS	

11	X	5102217	System Blank	12941	Humid	200ul	1.00	10/22/07	1935	CS	
12	✓	↓ i8	ICAL Level 2	1576-48	0.5ppb	0.5ul	1.00	10/22/07	2023	CS	
13	✓	to 19	14413-350 20ppb	LCS	50ppb	50ul	1.00	↓	2130	CS	
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

0900

Comments: Nist Flow meter SN: 1-18812 Real 24.8ml/min nom: 22.6 mL/min CS 10/23/07

Signature

10/23/07
Date

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-5 on 10/22/2007. As noted on the accompanying analytical run log, the following point, Level 2, 0.5ppbv, was re-analyzed due to:

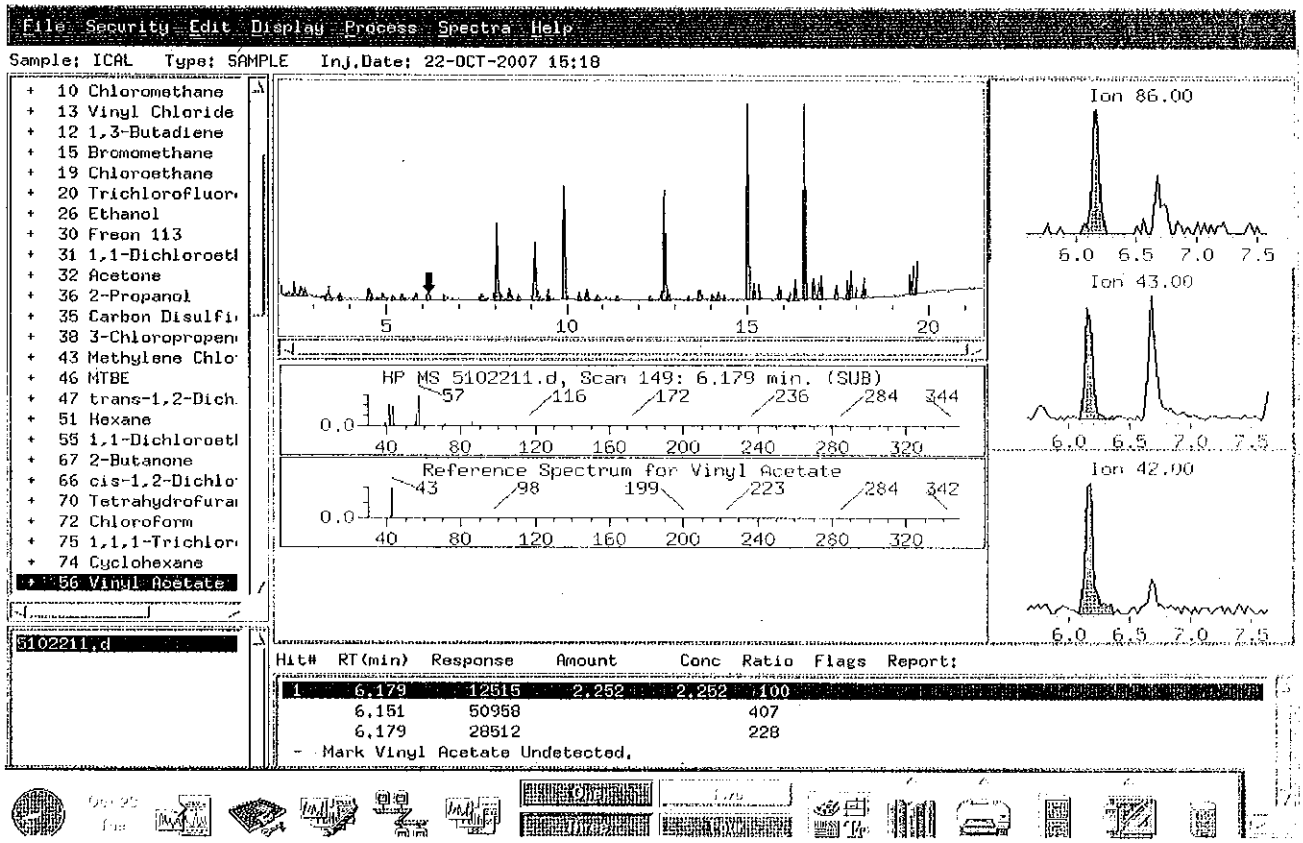
a. unacceptable peak resolution and integration of chloroethane

The following compounds used either 0.3ppbv as the lowest calibration concentration: Chloroform, Benzene, Cumene and Styrene.

Team A

Date/Initial	10/23/07 VR
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	✓
Merged Peaks	

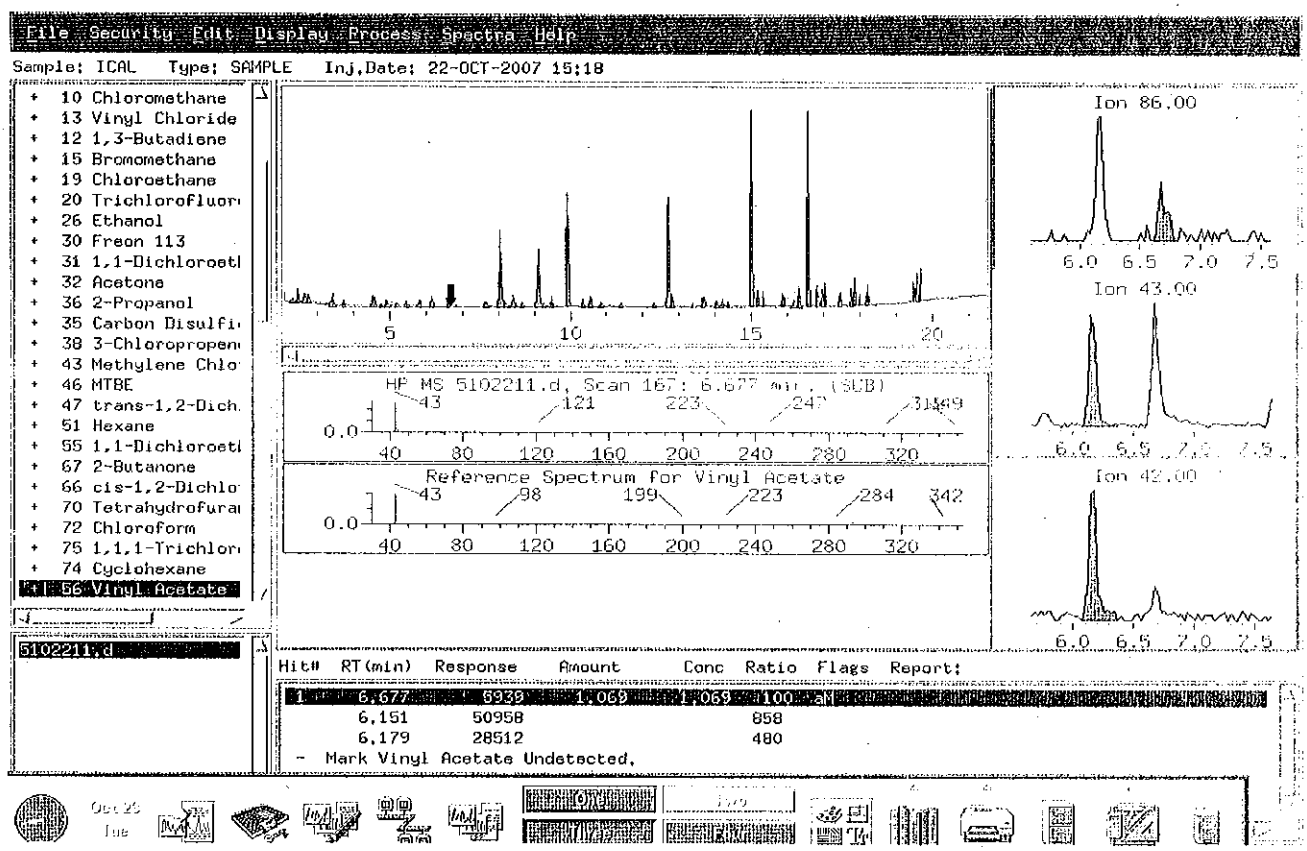
Before



Team A

Date/Initial	10/23/07 VR
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	✓
Merged Peaks	

After
10-23-07 CP.



Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15
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
3-Chloropropene
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
2,2,4-Trimethylpentane
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

Data file : /chem/msd5.i/5-22oct.b/5102219.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-OCT-2007 21:30
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1443-350
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:55 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 17:13 Cal File: 5102215.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	426729	25.0000			80.00- 120.00	100.00
8.059	8.059 (1.000)	128	325845				44.66- 104.66	76.36
8.031	8.031 (1.000)	49	826537				158.97- 218.97	193.69
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1658358	25.0000			80.00- 120.00	100.00
9.912	9.912 (1.000)	88	266078				0.00- 46.00	16.04
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1259909	25.0000			80.00- 120.00	100.00
14.999	14.999 (1.000)	82	710407				27.52- 87.52	56.39
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	578526	25.7821	25.782		80.00- 120.00	100.00
9.110	9.110 (1.130)	67	323068				32.76- 92.76	55.84
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1458092	25.5158	25.516		80.00- 120.00	100.00
12.704	12.677 (1.282)	70	139327				0.00- 39.67	9.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	946096			39.83- 99.83	64.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	558650	24.5668	24.567	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	911648			128.21- 188.21	163.19
16.575	16.575 (1.105)	176	522004			66.48- 126.48	93.44
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1463428	51.9272	51.927	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	987143			37.02- 97.02	67.45
2.280	2.280 (0.283)	39	1008530			39.27- 99.27	68.92
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2522131	48.1861	48.186	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	817072			1.85- 61.85	32.40
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	2300984	52.6920	52.692	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	748676			1.32- 61.32	32.54
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1751801	48.6593	48.659	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	543735			0.66- 60.66	31.04
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1868277	50.3681	50.368	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	575334			1.49- 61.49	30.79
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1553984	51.7419	51.742	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1669232			80.68- 140.68	107.42
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1197360	51.1316	51.132	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	1113653			63.99- 123.99	93.01
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	921301	53.1274	53.127	80.00- 120.00	100.00
3.386	3.386 (0.420)	49	244251			0.00- 55.08	26.51
3.386	3.386 (0.420)	66	274458			0.31- 60.31	29.79
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2677302	51.5655	51.565	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1718716			35.05- 95.05	64.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	625006	60.2544	60.254	80.00- 120.00	100.00
4.078	4.078 (0.506)	43	109857			0.00- 50.67	17.58
4.078	4.078 (0.506)	46	256723			12.78- 72.78	41.08
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1907840	57.6063	57.606	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1177286			33.91- 93.91	61.71
4.520	4.520 (0.561)	101	2657950			110.90- 170.90	139.32
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	2510792	57.1096	57.110	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1460119			29.57- 89.57	58.15
4.575	4.575 (0.568)	98	940821			8.56- 68.56	37.47
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	852148	52.4121	52.412	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2532091			265.30- 325.30	297.14
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2837055	54.1646	54.165	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	625469			0.00- 50.27	22.05
4.907	4.907 (0.609)	59	103244			0.00- 33.97	3.64
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	4145525	52.1634	52.163	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	669449	51.7366	51.737	80.00- 120.00	100.00
5.184	5.184 (0.643)	41	2316696			309.66- 369.66	346.06
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1933307	53.4732	53.473	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	1270632			35.45- 95.45	65.72
5.432	5.432 (0.674)	51	599319			0.67- 60.67	31.00
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	905895	45.8491	45.849	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	287296			0.98- 60.98	31.71
5.764	5.764 (0.715)	41	315669			1.50- 61.50	34.85
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1474733	50.0017	50.002	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	2352115			123.44- 183.44	159.49
5.819	5.819 (0.722)	98	944150			32.80- 92.80	64.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2913914	53.2271	53.227	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1910247			35.47- 95.47	65.56
6.151	6.151 (0.763)	86	429649			0.00- 45.02	14.74
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2657355	52.2047	52.205	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	817284			0.53- 60.53	30.76
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	627677	54.2026	54.203	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	3188836			465.34- 525.34	508.04
7.644	7.644 (0.949)	57	234716			6.67- 66.67	37.39
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1865728	52.3487	52.349	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1350567			42.93- 102.93	72.39
7.617	7.617 (0.945)	98	847880			16.40- 76.40	45.44
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1940902	48.2621	48.262	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	587320			0.00- 57.83	30.26
8.031	8.031 (0.997)	72	601304			2.66- 62.66	30.98
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2207022	51.6294	51.629	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1414380			34.57- 94.57	64.09
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	2053980	53.9936	53.994	80.00- 120.00	100.00
8.419	8.419 (1.045)	99	1294419			33.55- 93.55	63.02
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.391 (1.045)	84	1776227	51.6080	51.608	80.00- 120.00	100.00
8.391	8.391 (1.041)	56	2580694			115.77- 175.77	145.29
8.391	8.391 (1.041)	41	1412668			46.45- 106.45	79.53
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	319267	51.8833	51.883	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3874881			1131.43-1191.43	1213.68
6.649	6.649 (0.825)	42	294760			53.66- 113.66	92.32
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1708169	53.5900	53.590	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1750638			76.50- 136.50	102.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7660814	54.2916	54.292	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2508346			2.64- 62.64	32.74
9.110	9.110 (1.130)	41	1870910			0.00- 54.38	24.42
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3767065	47.5530	47.553	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	873315			0.00- 52.58	23.18
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1543314	53.3507	53.351	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	469034			2.06- 62.06	30.39
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	433410	54.3354	54.335	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2965567			667.74- 727.74	684.24
9.469	9.469 (0.955)	71	1307643			275.65- 335.65	301.71
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1418643	50.4171	50.417	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1360192			67.66- 127.66	95.88
10.326	10.326 (1.042)	97	904061			36.16- 96.16	63.73
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.824 (1.095)	63	1341853	52.4918	52.492	80.00- 120.00	100.00
10.852	10.824 (1.095)	62	947603			40.70- 100.70	70.62
10.824	10.824 (1.092)	41	872222			33.95- 93.95	65.00
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	797559	51.2097	51.210	80.00- 120.00	100.00
11.073	11.045 (1.117)	58	705205			55.05- 115.05	88.42
11.073	11.073 (1.117)	57	208342			0.00- 57.18	26.12
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1910304	51.4962	51.496	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1239156			33.77- 93.77	64.87
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1447834	53.4164	53.416	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	449467			1.08- 61.08	31.04
12.317	12.317 (1.243)	39	932739			36.47- 96.47	64.42
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1125740	54.9191	54.919	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3086055			240.46- 300.46	274.14
12.594	12.594 (1.271)	85	396421			4.64- 64.64	35.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3715886	53.5786	53.579	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	2203630			31.41- 91.41	59.30
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1368142	57.8095	57.810	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	424236			1.75- 61.75	31.01
13.368	13.340 (0.891)	39	879001			31.51- 91.51	64.25
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1203458	51.6837	51.684	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	752436			32.17- 92.17	62.52
13.644	13.644 (0.910)	83	1029605			55.71- 115.71	85.55
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1384681	52.3860	52.386	80.00- 120.00	100.00
13.700	13.672 (0.913)	129	1133947			49.45- 109.45	81.89
13.700	13.672 (0.913)	131	1075456			46.22- 106.22	77.67
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1506172	52.9560	52.956	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2949621			168.35- 228.35	195.84
14.031	14.031 (0.935)	100	244211			0.00- 45.77	16.21
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1674388	53.2151	53.215	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1313417			47.00- 107.00	78.44
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1712376	49.9692	49.969	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1587827			64.31- 124.31	92.73
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2677869	48.9308	48.931	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	849802			2.47- 62.47	31.73
15.027	15.027 (1.002)	77	1638687			30.36- 90.36	61.19
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1457730	50.5758	50.576	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4809817			297.13- 357.13	329.95
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1832934	53.4845	53.484	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3827784			180.05- 240.05	208.83
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1690345	51.3117	51.312	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3808090			193.60- 253.60	225.28
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2558826	52.6480	52.648	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	1289894			19.12- 79.12	50.41
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1445417	53.0185	53.018	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	767212			22.25- 82.25	53.08
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2584931	50.4194	50.419	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1624114			34.29- 94.29	62.83
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5162900	53.3867	53.387	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1489481			0.00- 59.53	28.85
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4620073	53.8929	53.893	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2221021			17.81- 77.81	48.07
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3920044	52.6698	52.670	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1848779			16.91- 76.91	47.16
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2623740	48.0953	48.095	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1688914			34.38- 94.38	64.37
17.764	17.764 (1.184)	111	1056230			11.02- 71.02	40.26
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3075428	49.6136	49.614	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1912157			32.14- 92.14	62.18
17.847	17.847 (1.190)	111	1301196			11.48- 71.48	42.31
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4563459	61.9284	61.928	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	874221			0.00- 49.19	19.16
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2684096	46.9836	46.984	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1699978			31.80- 91.80	63.34
18.206	18.206 (1.214)	111	1107058			9.34- 69.34	41.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1603363	41.5693	41.569	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1511795			63.72- 123.72	94.29
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1194795	45.0485	45.048	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	753809			33.66- 93.66	63.09
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6264174	55.1639	55.164	80.00- 120.00	100.00
16.852	16.824 (1.123)	120	1321861			0.00- 51.27	21.10
16.824	16.824 (1.122)	105	216538			0.00- 33.45	3.46
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5257853	55.3878	55.388	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1395131			0.00- 56.71	26.53
16.326	16.326 (1.088)	51	692376			0.00- 43.17	13.17
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5313534	41.5151	41.515	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	658730			0.00- 43.63	12.40
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2480477	49.8206	49.821	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1652810			37.45- 97.45	66.63
3.414	3.414 (0.424)	72	167645			0.00- 36.86	6.76
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	463204	51.4459	51.446	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	3146572			674.76- 734.76	679.31
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	2140337	51.2642	51.264	80.00- 120.00	100.00
10.548	10.548 (1.064)	98	1048159			19.70- 79.70	48.97
10.548	10.548 (1.064)	55	2186795			72.98- 132.98	102.17

Report Date: 23-Oct-2007 09:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102219.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 16:13
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	430369	258221	602517	426729	-0.85
92 1,4-Difluorobenze	1595908	957545	2234271	1658358	3.91
125 Chlorobenzene-d5	1261170	756702	1765638	1259909	-0.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

Report Date: 23-Oct-2007 09:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-22oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	48.186	96.37	70-130
9 Freon 114	50.000	52.692	105.38	70-130
10 Chloromethane	50.000	48.659	97.32	70-130
13 Vinyl Chloride	50.000	50.368	100.74	70-130
12 1,3-Butadiene	50.000	51.742	103.48	60-140
15 Bromomethane	50.000	51.132	102.26	70-130
19 Chloroethane	50.000	53.127	106.25	70-130
20 Trichlorofluoromet	50.000	51.565	103.13	70-130
26 Ethanol	50.000	60.254	120.51	60-140
30 Freon 113	50.000	57.606	115.21	70-130
31 1,1-Dichloroethene	50.000	57.110	114.22	70-130
35 Carbon Disulfide	50.000	52.163	104.33	60-140
32 Acetone	50.000	52.412	104.82	60-140
36 2-Propanol	50.000	54.165	108.33	60-140
38 3-Chloropropene	50.000	51.737	103.47	60-140
43 Methylene Chloride	50.000	53.473	106.95	70-130
46 MTBE	50.000	45.849	91.70	60-140
47 trans-1,2-Dichloro	50.000	50.002	100.00	60-140
51 Hexane	50.000	53.227	106.45	60-140
55 1,1-Dichloroethane	50.000	52.205	104.41	70-130
66 cis-1,2-Dichloroet	50.000	52.349	104.70	70-130
67 2-Butanone	50.000	54.203	108.41	60-140
70 Tetrahydrofuran	50.000	48.262	96.52	60-140
72 Chloroform	50.000	51.629	103.26	70-130
74 Cyclohexane	50.000	51.608	103.22	60-140
75 1,1,1-Trichloroeth	50.000	53.994	107.99	70-130
56 Vinyl Acetate	50.000	51.883	103.77	60-140
77 Carbon Tetrachlori	50.000	53.590	107.18	70-130
80 2,2,4-Trimethylpen	50.000	54.292	108.58	60-140
81 Benzene	50.000	47.553	95.11	70-130
85 1,2-Dichloroethane	50.000	53.351	106.70	70-130
90 Heptane	50.000	54.335	108.67	60-140
93 Trichloroethene	50.000	50.417	100.83	70-130

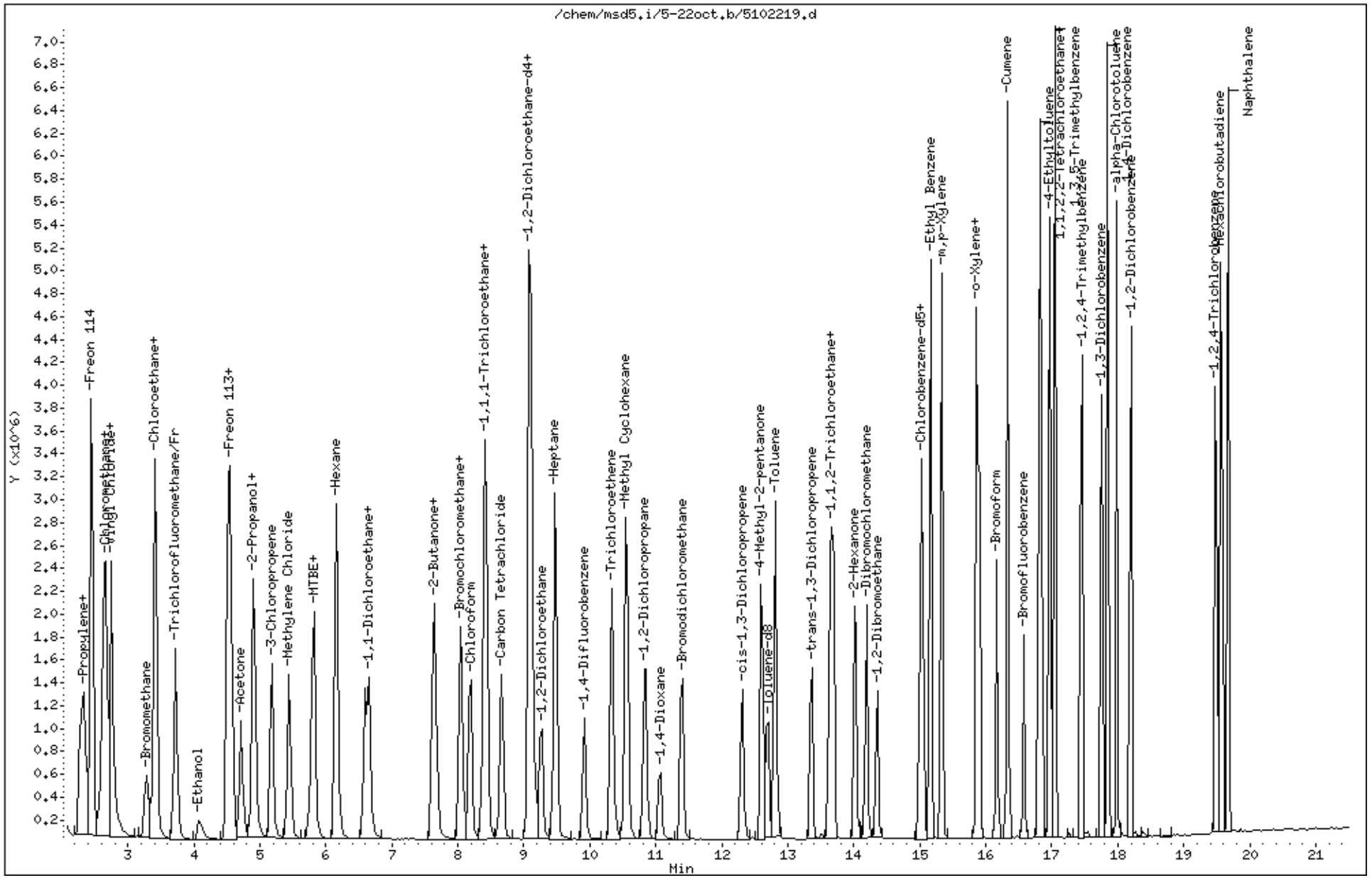
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	52.492	104.98	70-130
99 1,4-Dioxane	50.000	51.210	102.42	60-140
100 Bromodichlorometha	50.000	51.496	102.99	60-140
103 cis-1,3-Dichloropr	50.000	53.416	106.83	70-130
106 4-Methyl-2-pentano	50.000	54.919	109.84	60-140
108 Toluene	50.000	53.579	107.16	70-130
113 trans-1,3-Dichloro	50.000	57.810	115.62	70-130
114 1,1,2-Trichloroeth	50.000	51.684	103.37	70-130
116 Tetrachloroethene	50.000	52.386	104.77	70-130
119 2-Hexanone	50.000	52.956	105.91	60-140
120 Dibromochlorometha	50.000	53.215	106.43	60-140
122 1,2-Dibromoethane	50.000	49.969	99.94	70-130
126 Chlorobenzene	50.000	48.931	97.86	70-130
128 Ethyl Benzene	50.000	50.576	101.15	70-130
130 m,p-Xylene	50.000	53.484	106.97	70-130
132 o-Xylene	50.000	51.312	102.62	70-130
133 Styrene	50.000	52.648	105.30	70-130
134 Bromoform	50.000	53.018	106.04	60-140
136 Cumene	50.000	55.388	110.78	60-140
141 1,1,2,2-Tetrachlor	50.000	50.419	100.84	70-130
142 Propylbenzene	50.000	55.164	110.33	60-140
144 4-Ethyltoluene	50.000	53.387	106.77	60-140
147 1,3,5-Trimethylben	50.000	53.893	107.79	70-130
152 1,2,4-Trimethylben	50.000	52.670	105.34	70-130
155 1,3-Dichlorobenzen	50.000	48.095	96.19	70-130
156 1,4-Dichlorobenzen	50.000	49.614	99.23	70-130
157 alpha-Chlorotoluen	50.000	61.928	123.86	70-130
159 1,2-Dichlorobenzen	50.000	46.984	93.97	70-130
163 1,2,4-Trichloroben	50.000	41.569	83.14	70-130
164 Hexachlorobutadien	50.000	45.048	90.10	70-130
6 Propylene	50.000	51.927	103.85	70-130
165 Naphthalene	50.000	41.515	83.03	60-140
11 Butane	50.000	51.446	102.89	70-130
17 Isopentane	50.000	49.821	99.64	70-130
94 Methyl Cyclohexane	50.000	51.264	102.53	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.782	103.13	70-130
$ 107 Toluene-d8	25.000	25.516	102.06	70-130
$ 138 Bromofluorobenzene	25.000	24.567	98.27	70-130

Data File: /chem/msd5.i/5-22oct.b/5102219.d
Date : 22-OCT-2007 21:30
Client ID: LCS-1
Sample Info: 50ml #1443-350

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102209.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 22-OCT-2007 14:23
Operator : lmr Inst ID: msd5.i
Smp Info : 0.3ml #1576-46
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:51 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 14:23 Cal File: 5102209.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	494226	25.0000		0.00- 30.00	100.00
8.059	8.059 (1.000)	128	378086			0.00- 30.00	76.50
8.059	8.059 (1.000)	49	958821			0.00- 30.00	194.00
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1811774	25.0000		0.00- 30.00	100.00
9.912	9.912 (1.000)	88	303935			0.00- 30.00	16.78
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1361884	25.0000		0.00- 30.00	100.00
14.999	14.999 (1.000)	82	779300			0.00- 30.00	57.22
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	631175	25.0000		0.00- 30.00	100.00(a)
9.137	9.137 (1.134)	67	325545			0.00- 30.00	51.58
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1531585	25.0000		0.00- 30.00	100.00(a)
12.704	12.704 (1.278)	70	157417			0.00- 30.00	10.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	990228			0.00- 30.00	64.65
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	583336	25.0000		0.00- 30.00	100.00(a)
16.575	16.575 (1.105)	95	908942			0.00- 30.00	155.82
16.575	16.575 (1.105)	176	551040			0.00- 30.00	94.46
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	17089	0.30000	0.3000	0.00- 30.00	100.00
8.197	8.197 (1.017)	85	14428			0.00- 30.00	84.43
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	34956	0.30000	0.3000	0.00- 30.00	100.00
9.082	9.082 (0.914)	77	7329			0.00- 30.00	20.97
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	15647	0.30000	0.3000	0.00- 30.00	100.00
15.912	15.912 (1.061)	78	10099			0.00- 30.00	64.54
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	36069	0.30000	0.3000	0.00- 30.00	100.00
16.326	16.326 (1.088)	120	9124			0.00- 30.00	25.30
16.326	16.326 (1.088)	51	6717			0.00- 30.00	18.62

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: msd5.i
Lab File ID: 5102209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 14:23
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	494226	296536	691916	494226	0.00
92 1,4-Difluorobenze	1811774	1087064	2536484	1811774	0.00
125 Chlorobenzene-d5	1361884	817130	1906638	1361884	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

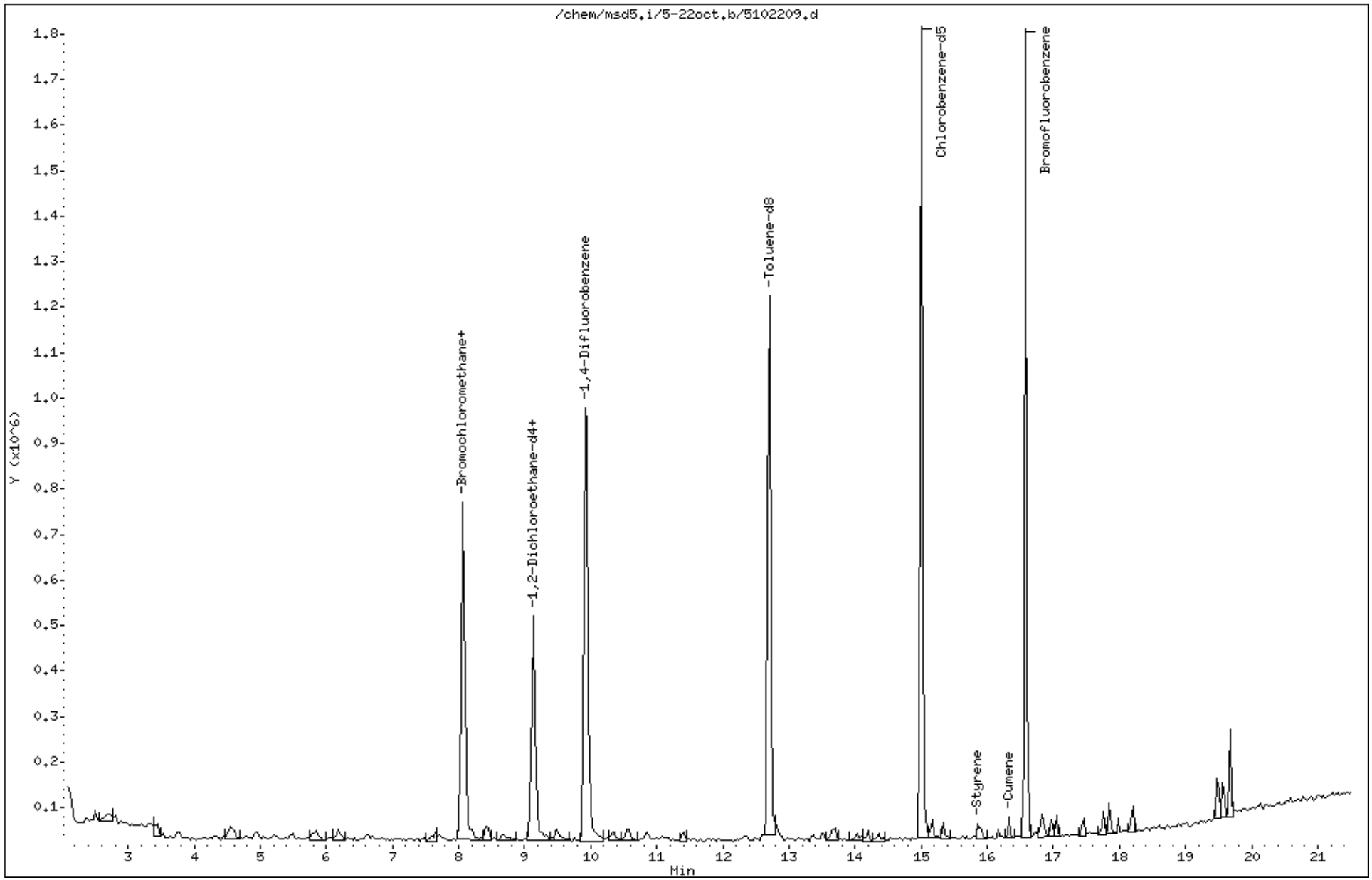
0080

Data File: /chem/msd5.i/5-22oct.b/5102209.d
Date : 22-OCT-2007 14:23
Client ID: Level 1
Sample Info: 0.3ml #1576-46

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102218.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 22-OCT-2007 20:23
Operator : lmr Inst ID: msd5.i
Smp Info : 0.5ml #1576-46
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:52 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 20:23 Cal File: 5102218.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	403966	25.0000		0.00- 30.00	100.00
8.059	8.059 (1.000)	128	312758			0.00- 30.00	77.42
8.059	8.059 (1.000)	49	797307			0.00- 30.00	197.37
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1525715	25.0000		0.00- 30.00	100.00
9.911	9.911 (1.000)	88	244262			0.00- 30.00	16.01
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1166174	25.0000		0.00- 30.00	100.00
14.999	14.999 (1.000)	82	684453			0.00- 30.00	58.69
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	509249	25.0000	25.000	0.00- 30.00	100.00
9.137	9.137 (1.134)	67	272281			0.00- 30.00	53.47
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1277528	25.0000	25.000	0.00- 30.00	100.00
12.704	12.704 (1.282)	70	119693			0.00- 30.00	9.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	841220			0.00- 30.00	65.85
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	486100	25.0000	25.000	0.00- 30.00	100.00
16.575	16.575 (1.105)	95	796534			0.00- 30.00	163.86
16.575	16.575 (1.105)	176	466734			0.00- 30.00	96.02
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.335 (0.290)	85	24012	0.50000	0.5000	0.00- 30.00	100.00
2.335	2.335 (0.290)	87	8238			0.00- 30.00	34.31
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	16513	0.50000	0.5000	0.00- 30.00	100.00
2.474	2.474 (0.307)	137	5744			0.00- 30.00	34.78
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.348)	62	15891	0.50000	0.5000	0.00- 30.00	100.00
2.778	2.778 (0.345)	64	8693			0.00- 30.00	54.70
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	9902	0.50000	0.5000	0.00- 30.00	100.00
2.750	2.750 (0.341)	39	11752			0.00- 30.00	118.68
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	8772	0.50000	0.5000	0.00- 30.00	100.00
3.276	3.276 (0.406)	96	9669			0.00- 30.00	110.23
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	6526	0.50000	0.5000	0.00- 30.00	100.00
3.414	3.414 (0.424)	49	1428			0.00- 30.00	21.88
3.386	3.386 (0.420)	66	2276			0.00- 30.00	34.88
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	21756	0.50000	0.5000	0.00- 30.00	100.00
3.718	3.718 (0.461)	103	13608			0.00- 30.00	62.55
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	13867	0.50000	0.5000	0.00- 30.00	100.00
4.547	4.547 (0.564)	153	10244			0.00- 30.00	73.87
4.520	4.520 (0.561)	101	19335			0.00- 30.00	139.43
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	17957	0.50000	0.5000	0.00- 30.00	100.00
4.575	4.575 (0.568)	96	10838			0.00- 30.00	60.36
4.575	4.575 (0.568)	98	7843			0.00- 30.00	43.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	30352	0.50000	0.5000	0.00- 30.00	100.00
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	17655	0.50000	0.5000	0.00- 30.00	100.00
5.460	5.460 (0.677)	84	10878			0.00- 30.00	61.61
5.432	5.432 (0.674)	51	6028			0.00- 30.00	34.14
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	8788	0.50000	0.5000	0.00- 30.00	100.00
5.764	5.764 (0.715)	57	3201			0.00- 30.00	36.42
5.764	5.764 (0.715)	41	4472			0.00- 30.00	50.89
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	14265	0.50000	0.5000	0.00- 30.00	100.00
5.819	5.819 (0.722)	61	17487			0.00- 30.00	122.59
5.819	5.819 (0.722)	98	6271			0.00- 30.00	43.96
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	21883	0.50000	0.5000	0.00- 30.00	100.00
6.151	6.151 (0.763)	43	14838			0.00- 30.00	67.81
6.179	6.179 (0.767)	86	5668			0.00- 30.00	25.90
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	22602	0.50000	0.5000	0.00- 30.00	100.00
6.593	6.593 (0.818)	65	6925			0.00- 30.00	30.64
67 2-Butanone					CAS #: 78-93-3		
7.727	7.727 (0.959)	72	3108	0.50000	0.5000	0.00- 30.00	100.00
7.699	7.699 (0.955)	43	22575			0.00- 30.00	726.35
7.672	7.672 (0.952)	57	2256			0.00- 30.00	72.59
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	14667	0.50000	0.5000	0.00- 30.00	100.00
7.617	7.617 (0.945)	96	9809			0.00- 30.00	66.88
7.617	7.617 (0.945)	98	6048			0.00- 30.00	41.24
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	23307	0.50000	0.5000	0.00- 30.00	100.00
8.059	8.059 (1.000)	71	3946			0.00- 30.00	16.93
8.059	8.059 (1.000)	72	6048			0.00- 30.00	25.95
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	18381	0.50000	0.4412	0.00- 30.00	100.00(a)
8.197	8.197 (1.017)	85	12239			0.00- 30.00	66.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
8.446	8.446 (1.048)	97	14828	0.50000	0.5000	0.00- 30.00	100.00
8.418	8.418 (1.045)	99	7973			0.00- 30.00	53.77
74 Cyclohexane						CAS #: 110-82-7	
8.418	8.418 (1.045)	84	14891	0.50000	0.5000	0.00- 30.00	100.00
8.391	8.391 (1.041)	56	18079			0.00- 30.00	121.41
8.391	8.391 (1.041)	41	11714			0.00- 30.00	78.66
77 Carbon Tetrachloride						CAS #: 56-23-5	
8.667	8.667 (1.075)	119	12029	0.50000	0.5000	0.00- 30.00	100.00
8.667	8.667 (1.075)	117	11652			0.00- 30.00	96.87
80 2,2,4-Trimethylpentane						CAS #: 540-84-1	
9.082	9.082 (1.127)	57	47782	0.50000	0.5000	0.00- 30.00	100.00
9.082	9.082 (1.127)	56	21096			0.00- 30.00	44.15
9.110	9.110 (1.130)	41	13090			0.00- 30.00	27.40
81 Benzene						CAS #: 71-43-2	
9.082	9.082 (0.916)	78	33813	0.50000	0.4080	0.00- 30.00	100.00(a)
9.082	9.082 (0.916)	77	7284			0.00- 30.00	21.54
85 1,2-Dichloroethane						CAS #: 107-06-2	
9.275	9.275 (0.936)	62	9854	0.50000	0.5000	0.00- 30.00	100.00
9.275	9.275 (0.936)	64	5408			0.00- 30.00	54.88
90 Heptane						CAS #: 142-82-5	
9.497	9.497 (0.958)	100	3089	0.50000	0.5000	0.00- 30.00	100.00
9.469	9.469 (0.955)	43	19717			0.00- 30.00	638.30
9.497	9.497 (0.958)	71	8986			0.00- 30.00	290.90
93 Trichloroethene						CAS #: 79-01-6	
10.326	10.326 (1.042)	95	11835	0.50000	0.5000	0.00- 30.00	100.00
10.326	10.326 (1.042)	130	10760			0.00- 30.00	90.92
10.326	10.326 (1.042)	97	9316			0.00- 30.00	78.72
98 1,2-Dichloropropane						CAS #: 78-87-5	
10.824	10.824 (1.092)	63	9179	0.50000	0.5000	0.00- 30.00	100.00
10.851	10.851 (1.095)	62	7369			0.00- 30.00	80.28
10.824	10.824 (1.092)	41	9238			0.00- 30.00	100.64
100 Bromodichloromethane						CAS #: 75-27-4	
11.405	11.405 (1.151)	83	14305	0.50000	0.5000	0.00- 30.00	100.00
11.405	11.405 (1.151)	85	7852			0.00- 30.00	54.89
103 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.317	12.317 (1.243)	75	9027	0.50000	0.5000	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.317	12.317 (1.243)	77	2685			0.00- 30.00	29.74
12.317	12.317 (1.243)	39	8777			0.00- 30.00	97.23
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	6927	0.50000	0.5000	0.00- 30.00	100.00
12.621	12.621 (1.273)	43	16006			0.00- 30.00	231.07
12.621	12.621 (1.273)	85	4097			0.00- 30.00	59.15
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	27731	0.50000	0.5000	0.00- 30.00	100.00
12.815	12.815 (1.293)	92	14670			0.00- 30.00	52.90
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	5161	0.50000	0.5000	0.00- 30.00	100.00
13.368	13.368 (0.891)	77	2666			0.00- 30.00	51.66
13.340	13.340 (0.889)	39	4626			0.00- 30.00	89.63
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	10131	0.50000	0.5000	0.00- 30.00	100.00
13.644	13.644 (0.910)	99	5660			0.00- 30.00	55.87
13.644	13.644 (0.910)	83	8031			0.00- 30.00	79.27
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	10285	0.50000	0.5000	0.00- 30.00	100.00
13.699	13.699 (0.913)	129	9647			0.00- 30.00	93.80
13.699	13.699 (0.913)	131	9197			0.00- 30.00	89.42
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	11468	0.50000	0.5000	0.00- 30.00	100.00
14.197	14.197 (0.947)	127	8046			0.00- 30.00	70.16
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	13378	0.50000	0.5000	0.00- 30.00	100.00
14.363	14.363 (0.958)	109	13522			0.00- 30.00	101.08
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	24281	0.50000	0.5000	0.00- 30.00	100.00
15.027	15.027 (1.002)	114	7100			0.00- 30.00	29.24
15.027	15.027 (1.002)	77	23177			0.00- 30.00	95.45
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	11939	0.50000	0.5000	0.00- 30.00	100.00
15.165	15.165 (1.011)	91	35857			0.00- 30.00	300.34
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	11525	0.50000	0.5000	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	25167			0.00- 30.00	218.37
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	13507	0.50000	0.5000	0.00- 30.00	100.00
15.856	15.856 (1.057)	91	24228			0.00- 30.00	179.37
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	15445	0.50000	0.4089	0.00- 30.00	100.00(a)
15.911	15.911 (1.061)	78	9491			0.00- 30.00	61.45
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	9784	0.50000	0.5000	0.00- 30.00	100.00
16.160	16.160 (1.077)	171	4703			0.00- 30.00	48.07
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	19781	0.50000	0.5000	0.00- 30.00	100.00
16.796	16.796 (1.120)	85	12190			0.00- 30.00	61.62
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	31861	0.50000	0.5000	0.00- 30.00	100.00
16.962	16.962 (1.131)	120	8291			0.00- 30.00	26.02
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	29035	0.50000	0.5000	0.00- 30.00	100.00
17.045	17.045 (1.136)	120	15018			0.00- 30.00	51.72
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	23129	0.50000	0.5000	0.00- 30.00	100.00
17.460	17.460 (1.164)	120	11024			0.00- 30.00	47.66
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	22947	0.50000	0.5000	0.00- 30.00	100.00
17.764	17.764 (1.184)	148	14229			0.00- 30.00	62.01
17.764	17.764 (1.184)	111	9708			0.00- 30.00	42.31
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	22116	0.50000	0.5000	0.00- 30.00	100.00
17.847	17.847 (1.190)	148	16702			0.00- 30.00	75.52
17.847	17.847 (1.190)	111	12037			0.00- 30.00	54.43
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	21042	0.50000	0.5000	0.00- 30.00	100.00
17.985	17.985 (1.199)	126	4533			0.00- 30.00	21.54
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	25624	0.50000	0.5000	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	17802			0.00- 30.00	69.47
18.206	18.206 (1.214)	111	8981			0.00- 30.00	35.05
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	37529	0.50000	0.5000	0.00- 30.00	100.00
16.851	16.851 (1.123)	120	10504			0.00- 30.00	27.99
16.824	16.824 (1.122)	105	2387			0.00- 30.00	6.36
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	32613	0.50000	0.3878	0.00- 30.00	100.00(a)
16.326	16.326 (1.088)	120	7113			0.00- 30.00	21.81
16.326	16.326 (1.088)	51	5529			0.00- 30.00	16.95
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	17905	0.50000	0.5000	0.00- 30.00	100.00
10.547	10.547 (1.064)	98	6950			0.00- 30.00	38.82
10.547	10.547 (1.064)	55	13903			0.00- 30.00	77.65

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: msd5.i
Lab File ID: 5102218.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 20:23
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	403966	242380	565552	403966	0.00
92 1,4-Difluorobenze	1525715	915429	2136001	1525715	0.00
125 Chlorobenzene-d5	1166174	699704	1632644	1166174	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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/msd5.i/5-22oct.b/5102218.d

Date : 22-OCT-2007 20:23

Client ID: Level 2

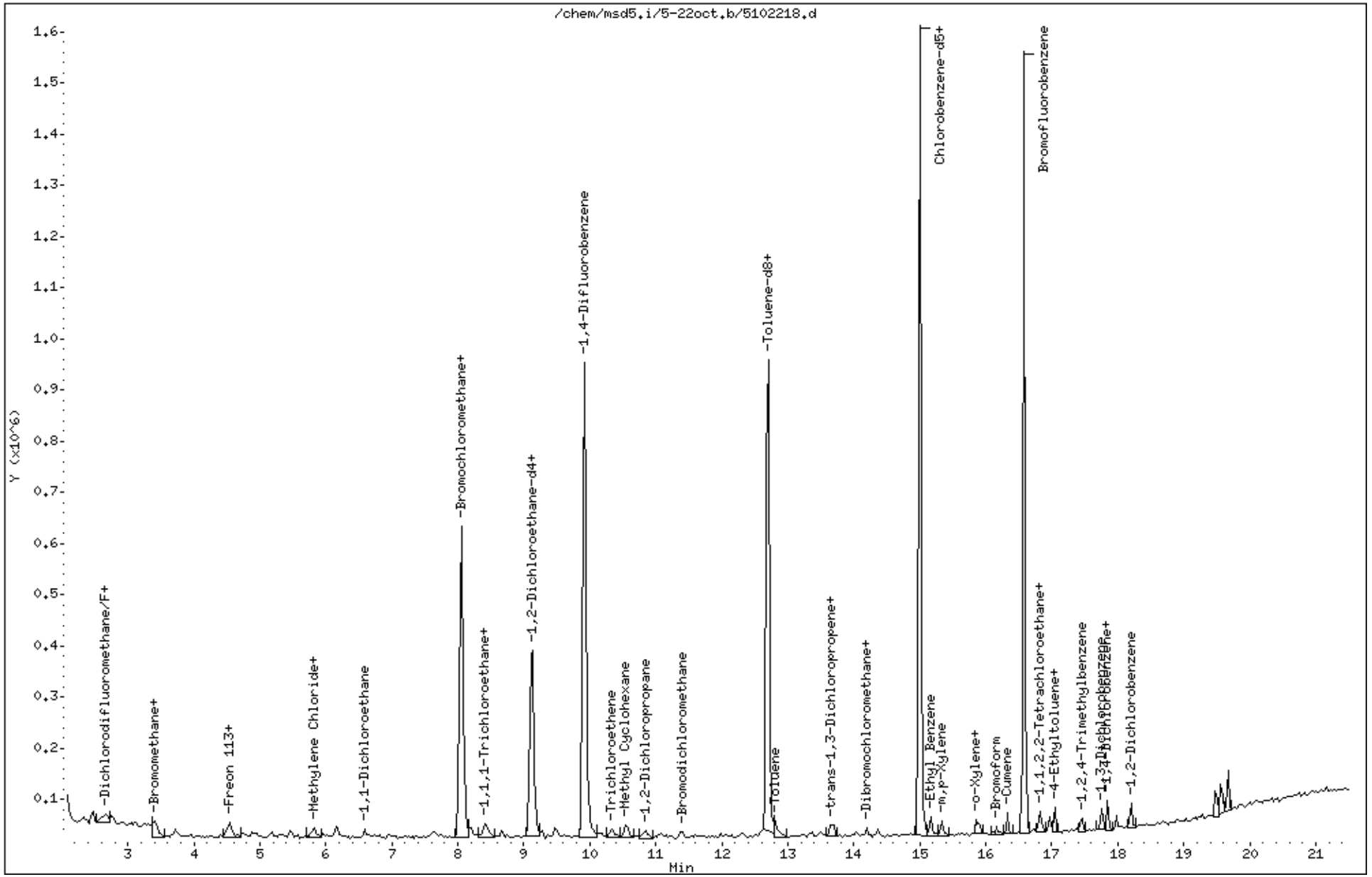
Sample Info: 0.5ml #1576-46

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102211.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 22-OCT-2007 15:18
Operator : lmr Inst ID: msd5.i
Smp Info : 2.0ml #1576-46
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:52 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 15:18 Cal File: 5102211.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	385364	25.0000		0.00- 30.00	100.00
8.059	8.059 (1.000)	128	299567			0.00- 30.00	77.74
8.059	8.059 (1.000)	49	776085			0.00- 30.00	201.39
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1477849	25.0000		0.00- 30.00	100.00
9.912	9.912 (1.000)	88	237351			0.00- 30.00	16.06
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1161518	25.0000		0.00- 30.00	100.00
14.999	14.999 (1.000)	82	667417			0.00- 30.00	57.46
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	505393	25.0000	25.494	0.00- 30.00	100.00
9.137	9.137 (1.134)	67	271838			0.00- 30.00	53.79
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1249865	25.0000	25.125	0.00- 30.00	100.00
12.676	12.676 (1.279)	70	124066			0.00- 30.00	9.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	799390			0.00- 30.00	63.96
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	499176	25.0000	25.382	0.00- 30.00	100.00
16.575	16.575 (1.105)	95	817468			0.00- 30.00	163.76
16.575	16.575 (1.105)	176	476433			0.00- 30.00	95.44
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	42334	2.00000	2.000	0.00- 30.00	100.00
2.280	2.280 (0.283)	42	28342			0.00- 30.00	66.95
2.280	2.280 (0.283)	39	32625			0.00- 30.00	77.07
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	90292	2.00000	1.985	0.00- 30.00	100.00
2.336	2.336 (0.290)	87	28759			0.00- 30.00	31.85
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	67886	2.00000	2.074	0.00- 30.00	100.00
2.474	2.474 (0.307)	137	23333			0.00- 30.00	34.37
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	55788	2.00000	2.000	0.00- 30.00	100.00
2.640	2.640 (0.328)	52	18724			0.00- 30.00	33.56
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	59981	2.00000	1.989	0.00- 30.00	100.00
2.750	2.750 (0.341)	64	14519			0.00- 30.00	24.21
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	46448	2.00000	2.206	0.00- 30.00	100.00
2.750	2.750 (0.341)	39	41757			0.00- 30.00	89.90
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	35699	2.00000	2.064	0.00- 30.00	100.00
3.276	3.276 (0.406)	96	33725			0.00- 30.00	94.47
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	20676	2.00000	1.814	0.00- 30.00	100.00
3.414	3.414 (0.424)	49	6623			0.00- 30.00	32.03
3.442	3.442 (0.427)	66	6897			0.00- 30.00	33.36
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	80567	2.00000	1.970	0.00- 30.00	100.00
3.718	3.718 (0.461)	103	53107			0.00- 30.00	65.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	14159	2.00000	2.000	0.00- 30.00	100.00
4.133	4.133 (0.513)	43	3654			0.00- 30.00	25.81
4.133	4.133 (0.513)	46	7737			0.00- 30.00	54.64
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	51211	2.00000	1.967	0.00- 30.00	100.00
4.520	4.520 (0.561)	153	35318			0.00- 30.00	68.97
4.520	4.520 (0.561)	101	73390			0.00- 30.00	143.31
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	67522	2.00000	1.985	0.00- 30.00	100.00
4.575	4.575 (0.568)	96	39822			0.00- 30.00	58.98
4.575	4.575 (0.568)	98	25123			0.00- 30.00	37.21
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	23005	2.00000	2.000	0.00- 30.00	100.00
4.741	4.741 (0.588)	43	57379			0.00- 30.00	249.42
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	61598	2.00000	2.000	0.00- 30.00	100.00
4.962	4.962 (0.616)	43	19168			0.00- 30.00	31.12
4.935	4.935 (0.612)	59	2867			0.00- 30.00	4.65
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	117629	2.00000	2.016	0.00- 30.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	17383	2.00000	2.000	0.00- 30.00	100.00
5.183	5.183 (0.643)	41	53728			0.00- 30.00	309.08
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	54614	2.00000	1.791	0.00- 30.00	100.00
5.460	5.460 (0.677)	84	37669			0.00- 30.00	68.97
5.460	5.460 (0.677)	51	21032			0.00- 30.00	38.51
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	26632	2.00000	1.770	0.00- 30.00	100.00
5.764	5.764 (0.715)	57	10150			0.00- 30.00	38.11
5.736	5.736 (0.712)	41	9121			0.00- 30.00	34.25
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	40418	2.00000	1.704	0.00- 30.00	100.00
5.819	5.819 (0.722)	61	69827			0.00- 30.00	172.76
5.819	5.819 (0.722)	98	27290			0.00- 30.00	67.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	79105	2.00000	1.946	0.00- 30.00	100.00
6.151	6.151 (0.763)	43	54461			0.00- 30.00	68.85
6.179	6.179 (0.767)	86	12515			0.00- 30.00	15.82
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	77770	2.00000	1.897	0.00- 30.00	100.00
6.594	6.594 (0.818)	65	24887			0.00- 30.00	32.00
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	17036	2.00000	2.358	0.00- 30.00	100.00
7.672	7.672 (0.952)	43	73561			0.00- 30.00	431.80
7.672	7.672 (0.952)	57	4758			0.00- 30.00	27.93
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	54372	2.00000	1.971	0.00- 30.00	100.00
7.644	7.644 (0.949)	96	38362			0.00- 30.00	70.55
7.644	7.644 (0.949)	98	23783			0.00- 30.00	43.74
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	53539	2.00000	1.503	0.00- 30.00	100.00
8.059	8.059 (1.000)	71	15241			0.00- 30.00	28.47
8.087	8.087 (1.003)	72	21183			0.00- 30.00	39.57
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	59020	2.00000	1.624	0.00- 30.00	100.00
8.197	8.197 (1.017)	85	37878			0.00- 30.00	64.18
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	53194	2.00000	1.938	0.00- 30.00	100.00
8.418	8.418 (1.045)	99	34283			0.00- 30.00	64.45
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	45300	2.00000	1.774	0.00- 30.00	100.00
8.418	8.418 (1.045)	56	66408			0.00- 30.00	146.60
8.391	8.391 (1.041)	41	38478			0.00- 30.00	84.94
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	5938	2.00000	2.000	0.00- 30.00	100.00(M)
6.151	6.151 (0.763)	43	50957			0.00- 30.00	858.15
6.179	6.179 (0.767)	42	28511			0.00- 30.00	480.14
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	42128	2.00000	1.914	0.00- 30.00	100.00
8.667	8.667 (1.075)	117	48676			0.00- 30.00	115.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	188720	2.00000	2.034	0.00- 30.00	100.00
9.082	9.082 (1.127)	56	62891			0.00- 30.00	33.33
9.110	9.110 (1.130)	41	52989			0.00- 30.00	28.08
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	112379	2.00000	1.556	0.00- 30.00	100.00
9.082	9.082 (0.916)	77	21548			0.00- 30.00	19.17
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	46790	2.00000	2.203	0.00- 30.00	100.00
9.276	9.276 (0.936)	64	15113			0.00- 30.00	32.30
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	9590	2.00000	1.779	0.00- 30.00	100.00
9.469	9.469 (0.955)	43	82288			0.00- 30.00	858.06
9.469	9.469 (0.955)	71	32625			0.00- 30.00	340.20
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	43973	2.00000	1.958	0.00- 30.00	100.00
10.326	10.326 (1.042)	130	39170			0.00- 30.00	89.08
10.326	10.326 (1.042)	97	24078			0.00- 30.00	54.76
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	34621	2.00000	1.973	0.00- 30.00	100.00
10.852	10.852 (1.095)	62	26648			0.00- 30.00	76.97
10.824	10.824 (1.092)	41	31867			0.00- 30.00	92.05
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	21854	2.00000	2.000	0.00- 30.00	100.00
11.073	11.073 (1.117)	58	21736			0.00- 30.00	99.46
11.073	11.073 (1.117)	57	7503			0.00- 30.00	34.33
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	50672	2.00000	1.910	0.00- 30.00	100.00
11.405	11.405 (1.151)	85	31725			0.00- 30.00	62.61
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	34118	2.00000	1.975	0.00- 30.00	100.00
12.317	12.317 (1.243)	77	11943			0.00- 30.00	35.00
12.289	12.289 (1.240)	39	23440			0.00- 30.00	68.70
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	23298	2.00000	1.859	0.00- 30.00	100.00
12.594	12.594 (1.271)	43	79661			0.00- 30.00	341.92
12.621	12.621 (1.273)	85	12527			0.00- 30.00	53.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	103689	2.00000	1.964	0.00- 30.00	100.00
12.815	12.815 (1.293)	92	55213			0.00- 30.00	53.25
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	22950	2.00000	2.110	0.00- 30.00	100.00
13.368	13.368 (0.891)	77	8583			0.00- 30.00	37.40
13.368	13.368 (0.891)	39	17714			0.00- 30.00	77.19
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	32380	2.00000	1.780	0.00- 30.00	100.00
13.644	13.644 (0.910)	99	23313			0.00- 30.00	72.00
13.644	13.644 (0.910)	83	29165			0.00- 30.00	90.07
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	44736	2.00000	2.088	0.00- 30.00	100.00
13.700	13.700 (0.913)	129	34216			0.00- 30.00	76.48
13.700	13.700 (0.913)	131	30864			0.00- 30.00	68.99
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	29214	2.00000	2.000	0.00- 30.00	100.00
14.031	14.031 (0.935)	43	71905			0.00- 30.00	246.13
14.031	14.031 (0.935)	100	4058			0.00- 30.00	13.89
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	41791	2.00000	1.911	0.00- 30.00	100.00
14.197	14.197 (0.947)	127	33257			0.00- 30.00	79.58
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	48237	2.00000	1.900	0.00- 30.00	100.00
14.363	14.363 (0.958)	109	44779			0.00- 30.00	92.83
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	89126	2.00000	1.918	0.00- 30.00	100.00
15.054	15.054 (1.004)	114	29803			0.00- 30.00	33.44
15.027	15.027 (1.002)	77	60951			0.00- 30.00	68.39
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	40459	2.00000	1.838	0.00- 30.00	100.00
15.165	15.165 (1.011)	91	130729			0.00- 30.00	323.11
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	43047	2.00000	1.936	0.00- 30.00	100.00
15.331	15.331 (1.022)	91	94991			0.00- 30.00	220.67
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	44685	2.00000	1.815	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	90495			0.00- 30.00	202.52
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	56114	2.00000	1.630	0.00- 30.00	100.00
15.911	15.911 (1.061)	78	30489			0.00- 30.00	54.33
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	33176	2.00000	1.839	0.00- 30.00	100.00
16.160	16.160 (1.077)	171	21187			0.00- 30.00	63.86
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	80625	2.00000	2.023	0.00- 30.00	100.00
16.796	16.796 (1.120)	85	54469			0.00- 30.00	67.56
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	135254	2.00000	2.063	0.00- 30.00	100.00
16.962	16.962 (1.131)	120	37956			0.00- 30.00	28.06
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	122180	2.00000	2.055	0.00- 30.00	100.00
17.045	17.045 (1.136)	120	60586			0.00- 30.00	49.59
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	101625	2.00000	2.098	0.00- 30.00	100.00
17.460	17.460 (1.164)	120	46876			0.00- 30.00	46.13
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	90818	2.00000	1.993	0.00- 30.00	100.00
17.764	17.764 (1.184)	148	62847			0.00- 30.00	69.20
17.764	17.764 (1.184)	111	34615			0.00- 30.00	38.11
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	95317	2.00000	2.078	0.00- 30.00	100.00
17.847	17.847 (1.190)	148	62278			0.00- 30.00	65.34
17.847	17.847 (1.190)	111	40688			0.00- 30.00	42.69
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	69945	2.00000	1.819	0.00- 30.00	100.00
17.985	17.985 (1.199)	126	14458			0.00- 30.00	20.67
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	97237	2.00000	1.951	0.00- 30.00	100.00
18.206	18.206 (1.214)	148	65877			0.00- 30.00	67.75
18.206	18.206 (1.214)	111	38568			0.00- 30.00	39.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	66303	2.00000	2.000	0.00- 30.00	100.00
19.506	19.506 (1.300)	182	62879			0.00- 30.00	94.84
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	45844	2.00000	2.000	0.00- 30.00	100.00
19.589	19.589 (1.306)	223	32332			0.00- 30.00	70.53
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	161387	2.00000	2.076	0.00- 30.00	100.00
16.852	16.852 (1.123)	120	33906			0.00- 30.00	21.01
16.824	16.824 (1.122)	105	7883			0.00- 30.00	4.88
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	128157	2.00000	1.660	0.00- 30.00	100.00
16.326	16.326 (1.088)	120	38248			0.00- 30.00	29.84
16.326	16.326 (1.088)	51	17980			0.00- 30.00	14.03
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	223231	2.00000	2.000	0.00- 30.00	100.00
19.672	19.672 (1.312)	127	23658			0.00- 30.00	10.60
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	74277	2.00000	2.000	0.00- 30.00	100.00
3.414	3.414 (0.424)	57	49744			0.00- 30.00	66.97
3.414	3.414 (0.424)	72	5225			0.00- 30.00	7.03
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	14498	2.00000	2.000	0.00- 30.00	100.00
2.695	2.695 (0.334)	43	102038			0.00- 30.00	703.81
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	57917	2.00000	1.820	0.00- 30.00	100.00
10.547	10.547 (1.064)	98	25611			0.00- 30.00	44.22
10.547	10.547 (1.064)	55	62010			0.00- 30.00	107.07

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102211.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 15:18
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	385364	231218	539510	385364	0.00
92 1,4-Difluorobenze	1477849	886709	2068989	1477849	0.00
125 Chlorobenzene-d5	1161518	696911	1626125	1161518	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

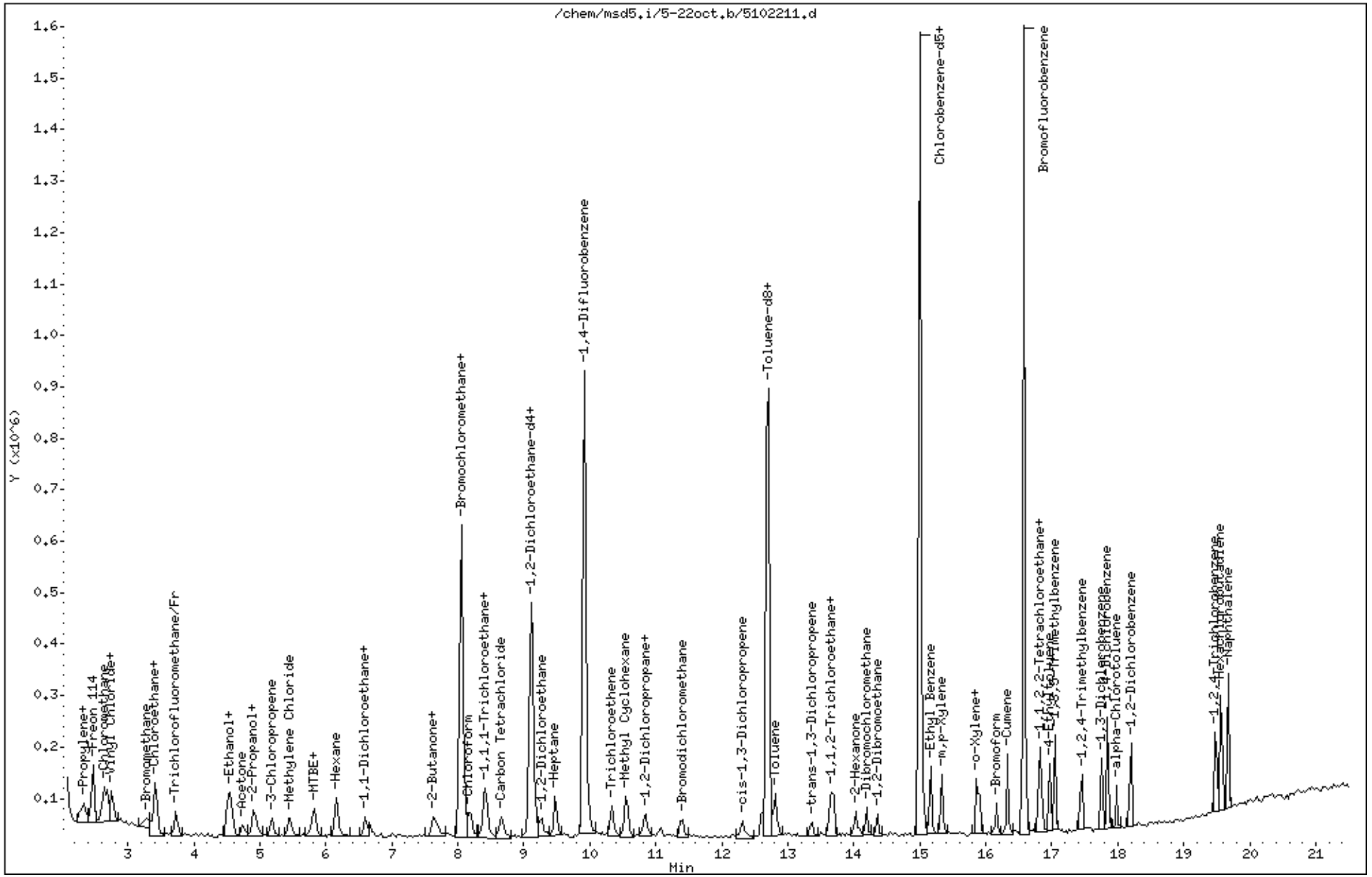
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-22oct.b/5102211.d
Date : 22-OCT-2007 15:18
Client ID: Level 3
Sample Info: 2.0ml #1576-46

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102212.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 22-OCT-2007 15:46
Operator : lmr Inst ID: msd5.i
Smp Info : 25ml #1576-46
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:52 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 15:46 Cal File: 5102212.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	403730	25.0000		0.00-	30.00	100.00
8.059	8.059 (1.000)	128	310803			0.00-	30.00	76.98
8.031	8.031 (1.000)	49	782399			0.00-	30.00	193.79
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1569671	25.0000		0.00-	30.00	100.00
9.911	9.911 (1.000)	88	253578			0.00-	30.00	16.15
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1216201	25.0000		0.00-	30.00	100.00
14.999	14.999 (1.000)	82	691706			0.00-	30.00	56.87
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.110	9.110 (1.130)	65	515087	25.0000	24.867	0.00-	30.00	100.00
9.110	9.110 (1.130)	67	293462			0.00-	30.00	56.97
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1355192	25.0000	25.429	0.00-	30.00	100.00
12.676	12.676 (1.279)	70	133536			0.00-	30.00	9.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	914756			0.00- 30.00	67.50
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	557019	25.0000	26.330	0.00- 30.00	100.00
16.575	16.575 (1.105)	95	864282			0.00- 30.00	155.16
16.575	16.575 (1.105)	176	529728			0.00- 30.00	95.10
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	735078	25.0000	28.503	0.00- 30.00	100.00
2.280	2.280 (0.283)	42	502418			0.00- 30.00	68.35
2.280	2.280 (0.283)	39	514894			0.00- 30.00	70.05
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1368842	25.0000	27.368	0.00- 30.00	100.00
2.336	2.336 (0.290)	87	432039			0.00- 30.00	31.56
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1210802	25.0000	31.046	0.00- 30.00	100.00
2.446	2.446 (0.304)	137	393219			0.00- 30.00	32.48
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	942804	25.0000	28.170	0.00- 30.00	100.00
2.584	2.584 (0.321)	52	281361			0.00- 30.00	29.84
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1005687	25.0000	29.176	0.00- 30.00	100.00
2.778	2.778 (0.345)	64	314139			0.00- 30.00	31.24
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	843720	25.0000	32.504	0.00- 30.00	100.00
2.750	2.750 (0.341)	39	874078			0.00- 30.00	103.60
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	642587	25.0000	31.124	0.00- 30.00	100.00
3.276	3.276 (0.406)	96	602828			0.00- 30.00	93.81
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	518709	25.0000	34.872	0.00- 30.00	100.00
3.386	3.386 (0.420)	49	142426			0.00- 30.00	27.46
3.386	3.386 (0.420)	66	156344			0.00- 30.00	30.14
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1399519	25.0000	29.636	0.00- 30.00	100.00
3.718	3.718 (0.461)	103	885302			0.00- 30.00	63.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	289613	25.0000	30.483	0.00- 30.00	100.00
4.077	4.077 (0.506)	43	57934			0.00- 30.00	20.00
4.077	4.077 (0.506)	46	113891			0.00- 30.00	39.33
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	906731	25.0000	29.954	0.00- 30.00	100.00
4.520	4.520 (0.561)	153	576172			0.00- 30.00	63.54
4.520	4.520 (0.561)	101	1260591			0.00- 30.00	139.03
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.547	4.547 (0.564)	61	1171264	25.0000	29.749	0.00- 30.00	100.00
4.575	4.575 (0.568)	96	675464			0.00- 30.00	57.67
4.547	4.547 (0.564)	98	441706			0.00- 30.00	37.71
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	408119	25.0000	28.766	0.00- 30.00	100.00
4.713	4.713 (0.585)	43	1239987			0.00- 30.00	303.83
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1342344	25.0000	31.232	0.00- 30.00	100.00
4.907	4.907 (0.609)	43	311110			0.00- 30.00	23.18
4.907	4.907 (0.609)	59	50239			0.00- 30.00	3.74
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2159010	25.0000	31.043	0.00- 30.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	338412	25.0000	29.892	0.00- 30.00	100.00
5.183	5.183 (0.643)	41	1172506			0.00- 30.00	346.47
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	934334	25.0000	27.678	0.00- 30.00	100.00
5.432	5.432 (0.674)	84	616455			0.00- 30.00	65.98
5.432	5.432 (0.674)	51	289472			0.00- 30.00	30.98
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	600258	25.0000	32.431	0.00- 30.00	100.00
5.764	5.764 (0.715)	57	186011			0.00- 30.00	30.99
5.764	5.764 (0.715)	41	213209			0.00- 30.00	35.52
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	786064	25.0000	29.068	0.00- 30.00	100.00
5.819	5.819 (0.722)	61	1193408			0.00- 30.00	151.82
5.819	5.819 (0.722)	98	502262			0.00- 30.00	63.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1467425	25.0000	30.598	0.00- 30.00	100.00
6.151	6.151 (0.763)	43	995239			0.00- 30.00	67.82
6.151	6.151 (0.763)	86	223941			0.00- 30.00	15.26
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	1355651	25.0000	29.020	0.00- 30.00	100.00
6.593	6.593 (0.818)	65	412256			0.00- 30.00	30.41
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	310929	25.0000	33.829	0.00- 30.00	100.00
7.672	7.672 (0.952)	43	1573697			0.00- 30.00	506.13
7.672	7.672 (0.952)	57	114995			0.00- 30.00	36.98
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	944362	25.0000	29.643	0.00- 30.00	100.00
7.617	7.617 (0.945)	96	699139			0.00- 30.00	74.03
7.617	7.617 (0.945)	98	431545			0.00- 30.00	45.70
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	986600	25.0000	25.941	0.00- 30.00	100.00
8.031	8.031 (0.997)	71	287744			0.00- 30.00	29.17
8.031	8.031 (0.997)	72	317299			0.00- 30.00	32.16
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1131825	25.0000	28.391	0.00- 30.00	100.00
8.197	8.197 (1.017)	85	718709			0.00- 30.00	63.50
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	1023261	25.0000	31.186	0.00- 30.00	100.00
8.418	8.418 (1.045)	99	648756			0.00- 30.00	63.40
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	925519	25.0000	30.675	0.00- 30.00	100.00
8.391	8.391 (1.041)	56	1367636			0.00- 30.00	147.77
8.391	8.391 (1.041)	41	736833			0.00- 30.00	79.61
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	144369	25.0000	32.496	0.00- 30.00	100.00
6.649	6.649 (0.825)	43	1762848			0.00- 30.00	1221.07
6.649	6.649 (0.825)	42	144606			0.00- 30.00	100.16
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	884894	25.0000	32.570	0.00- 30.00	100.00
8.667	8.667 (1.075)	117	896692			0.00- 30.00	101.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	3899439	25.0000	33.391	0.00- 30.00	100.00
9.082	9.082 (1.127)	56	1280144			0.00- 30.00	32.83
9.082	9.082 (1.127)	41	973466			0.00- 30.00	24.96
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1976235	25.0000	25.561	0.00- 30.00	100.00
9.082	9.082 (0.916)	77	432103			0.00- 30.00	21.86
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	777523	25.0000	30.601	0.00- 30.00	100.00
9.275	9.275 (0.936)	64	248076			0.00- 30.00	31.91
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	214954	25.0000	32.167	0.00- 30.00	100.00
9.469	9.469 (0.955)	43	1528941			0.00- 30.00	711.29
9.469	9.469 (0.955)	71	643355			0.00- 30.00	299.30
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	753053	25.0000	29.028	0.00- 30.00	100.00
10.326	10.326 (1.042)	130	706637			0.00- 30.00	93.84
10.326	10.326 (1.042)	97	485357			0.00- 30.00	64.45
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	713423	25.0000	32.522	0.00- 30.00	100.00
10.824	10.824 (1.092)	62	488358			0.00- 30.00	68.45
10.824	10.824 (1.092)	41	466394			0.00- 30.00	65.37
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	393337	25.0000	28.774	0.00- 30.00	100.00
11.073	11.073 (1.117)	58	338870			0.00- 30.00	86.15
11.073	11.073 (1.117)	57	102726			0.00- 30.00	26.12
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	996159	25.0000	31.068	0.00- 30.00	100.00
11.405	11.405 (1.151)	85	641498			0.00- 30.00	64.40
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	728644	25.0000	33.201	0.00- 30.00	100.00
12.317	12.317 (1.243)	77	219693			0.00- 30.00	30.15
12.317	12.317 (1.243)	39	471632			0.00- 30.00	64.73
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	550724	25.0000	33.957	0.00- 30.00	100.00
12.593	12.593 (1.271)	43	1506600			0.00- 30.00	273.57
12.593	12.593 (1.271)	85	186365			0.00- 30.00	33.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1868359	25.0000	29.996	0.00- 30.00	100.00
12.815	12.815 (1.293)	92	1129136			0.00- 30.00	60.43
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	677825	25.0000	40.757	0.00- 30.00	100.00
13.368	13.368 (0.891)	77	216025			0.00- 30.00	31.87
13.368	13.368 (0.891)	39	435814			0.00- 30.00	64.30
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	635430	25.0000	30.020	0.00- 30.00	100.00
13.644	13.644 (0.910)	99	392876			0.00- 30.00	61.83
13.644	13.644 (0.910)	83	559106			0.00- 30.00	87.99
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	711010	25.0000	29.094	0.00- 30.00	100.00
13.672	13.672 (0.912)	129	599071			0.00- 30.00	84.26
13.672	13.672 (0.912)	131	580301			0.00- 30.00	81.62
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	699514	25.0000	32.329	0.00- 30.00	100.00
14.004	14.004 (0.934)	43	1436140			0.00- 30.00	205.31
14.031	14.031 (0.935)	100	116151			0.00- 30.00	16.60
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	852628	25.0000	32.012	0.00- 30.00	100.00
14.197	14.197 (0.947)	127	677260			0.00- 30.00	79.43
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	940238	25.0000	31.076	0.00- 30.00	100.00
14.363	14.363 (0.958)	109	865445			0.00- 30.00	92.05
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1456555	25.0000	28.088	0.00- 30.00	100.00
15.027	15.027 (1.002)	114	450994			0.00- 30.00	30.96
15.027	15.027 (1.002)	77	882883			0.00- 30.00	60.61
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	789192	25.0000	30.490	0.00- 30.00	100.00
15.165	15.165 (1.011)	91	2593796			0.00- 30.00	328.66
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	987340	25.0000	34.414	0.00- 30.00	100.00
15.331	15.331 (1.022)	91	2061616			0.00- 30.00	208.81
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	913594	25.0000	31.106	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	1998229			0.00- 30.00	218.72
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1376410	25.0000	33.730	0.00- 30.00	100.00
15.911	15.911 (1.061)	78	675796			0.00- 30.00	49.10
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	757827	25.0000	33.390	0.00- 30.00	100.00
16.160	16.160 (1.077)	171	386668			0.00- 30.00	51.02
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1416651	25.0000	30.327	0.00- 30.00	100.00
16.796	16.796 (1.120)	85	898595			0.00- 30.00	63.43
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2770520	25.0000	33.502	0.00- 30.00	100.00
16.962	16.962 (1.131)	120	829447			0.00- 30.00	29.94
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2529336	25.0000	33.620	0.00- 30.00	100.00
17.045	17.045 (1.136)	120	1185960			0.00- 30.00	46.89
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2058354	25.0000	33.600	0.00- 30.00	100.00
17.460	17.460 (1.164)	120	991637			0.00- 30.00	48.18
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1443401	25.0000	28.275	0.00- 30.00	100.00
17.764	17.764 (1.184)	148	918709			0.00- 30.00	63.65
17.764	17.764 (1.184)	111	573969			0.00- 30.00	39.77
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1753295	25.0000	31.655	0.00- 30.00	100.00
17.847	17.847 (1.190)	148	1106065			0.00- 30.00	63.08
17.847	17.847 (1.190)	111	708960			0.00- 30.00	40.44
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2074396	25.0000	38.066	0.00- 30.00	100.00
17.985	17.985 (1.199)	126	417353			0.00- 30.00	20.12
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1495220	25.0000	27.324	0.00- 30.00	100.00
18.206	18.206 (1.214)	148	951857			0.00- 30.00	63.66
18.206	18.206 (1.214)	111	579706			0.00- 30.00	38.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	924953	25.0000	25.797	0.00- 30.00	100.00
19.506	19.506 (1.300)	182	875377			0.00- 30.00	94.64
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	701237	25.0000	26.944	0.00- 30.00	100.00
19.589	19.589 (1.306)	223	444632			0.00- 30.00	63.41
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3264006	25.0000	33.382	0.00- 30.00	100.00
16.851	16.851 (1.123)	120	708897			0.00- 30.00	21.72
16.824	16.824 (1.122)	105	107934			0.00- 30.00	3.31
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2701879	25.0000	30.829	0.00- 30.00	100.00
16.326	16.326 (1.088)	120	730625			0.00- 30.00	27.04
16.326	16.326 (1.088)	51	359545			0.00- 30.00	13.31
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	3294428	25.0000	26.499	0.00- 30.00	100.00
19.672	19.672 (1.312)	127	409374			0.00- 30.00	12.43
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1316384	25.0000	28.753	0.00- 30.00	100.00
3.414	3.414 (0.424)	57	873179			0.00- 30.00	66.33
3.414	3.414 (0.424)	72	84156			0.00- 30.00	6.39
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	233328	25.0000	27.568	0.00- 30.00	100.00
2.667	2.667 (0.331)	43	1640965			0.00- 30.00	703.29
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1080203	25.0000	29.245	0.00- 30.00	100.00
10.547	10.547 (1.064)	98	529949			0.00- 30.00	49.06
10.547	10.547 (1.064)	55	1119442			0.00- 30.00	103.63

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102212.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 15:46
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	403730	242238	565222	403730	0.00
92 1,4-Difluorobenze	1569671	941803	2197539	1569671	0.00
125 Chlorobenzene-d5	1216201	729721	1702681	1216201	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

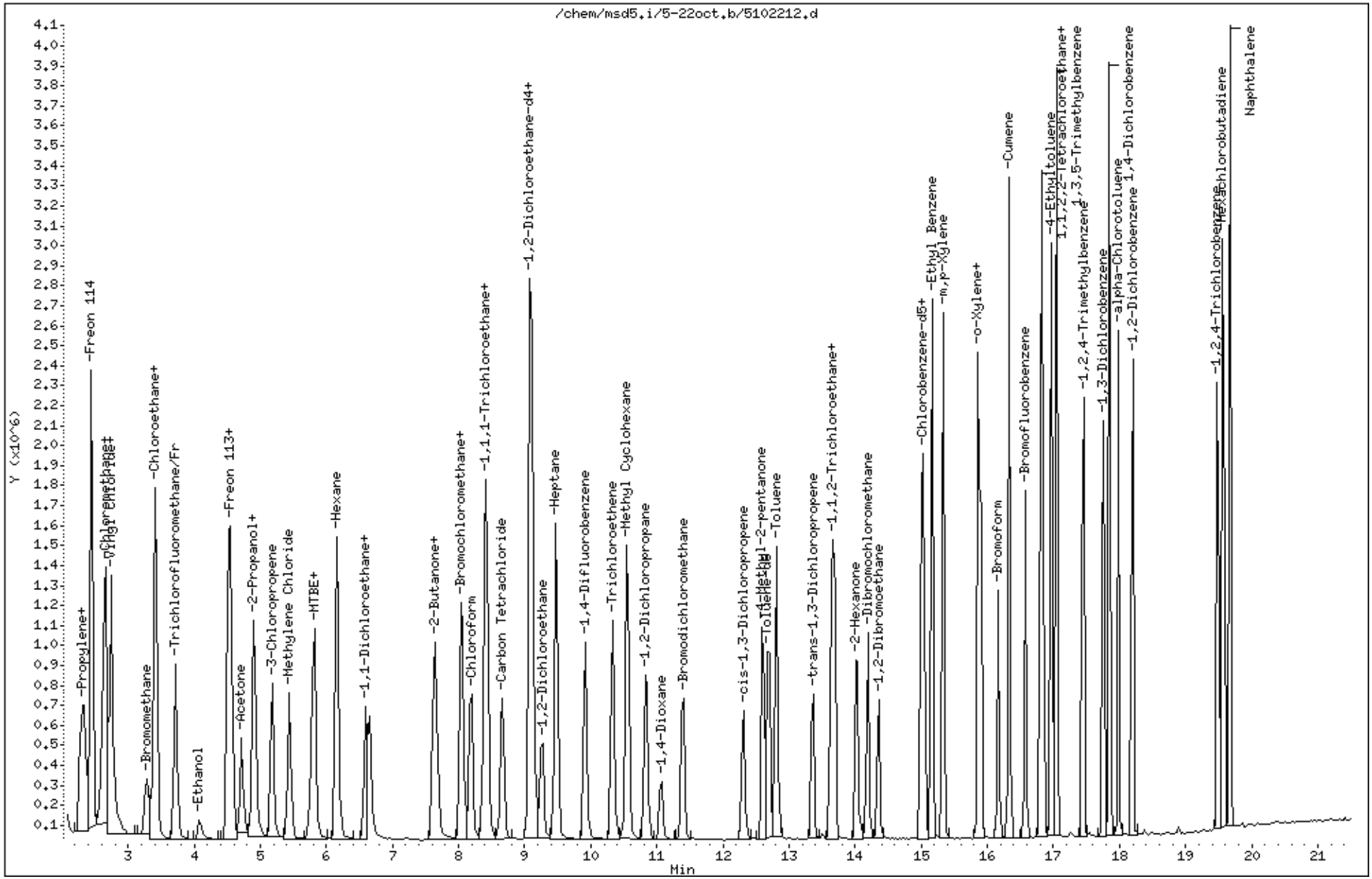
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0109

Data File: /chem/msd5.i/5-22oct.b/5102212.d
Date : 22-OCT-2007 15:46
Client ID: Level 4
Sample Info: 25ml #1576-46

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102213.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 22-OCT-2007 16:13
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1576-46
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:52 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 16:13 Cal File: 5102213.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	430369	25.0000		0.00- 30.00	100.00
8.059	8.059 (1.000)	128	321318			0.00- 30.00	74.66
8.031	8.031 (1.000)	49	813250			0.00- 30.00	188.97
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1595908	25.0000		0.00- 30.00	100.00
9.912	9.912 (1.000)	88	255371			0.00- 30.00	16.00
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1261170	25.0000		0.00- 30.00	100.00
14.999	14.999 (1.000)	82	703920			0.00- 30.00	55.81
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	524793	25.0000	24.064	0.00- 30.00	100.00
9.110	9.110 (1.130)	67	307562			0.00- 30.00	58.61
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1381979	25.0000	25.377	0.00- 30.00	100.00
12.677	12.677 (1.279)	70	138237			0.00- 30.00	10.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	940814			0.00- 30.00	68.08
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	573775	25.0000	25.856	0.00- 30.00	100.00
16.575	16.575 (1.105)	95	907774			0.00- 30.00	158.21
16.575	16.575 (1.105)	176	553575			0.00- 30.00	96.48
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1454438	50.0000	51.900	0.00- 30.00	100.00
2.280	2.280 (0.283)	42	969073			0.00- 30.00	66.63
2.280	2.280 (0.283)	39	1015930			0.00- 30.00	69.85
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2571662	50.0000	48.664	0.00- 30.00	100.00
2.336	2.336 (0.290)	87	835346			0.00- 30.00	32.48
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	2396531	50.0000	55.523	0.00- 30.00	100.00
2.446	2.446 (0.304)	137	750594			0.00- 30.00	31.32
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1859716	50.0000	51.399	0.00- 30.00	100.00
2.584	2.584 (0.321)	52	570390			0.00- 30.00	30.67
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1957575	50.0000	52.417	0.00- 30.00	100.00
2.778	2.778 (0.345)	64	619698			0.00- 30.00	31.66
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1691456	50.0000	57.907	0.00- 30.00	100.00
2.750	2.750 (0.341)	39	1764997			0.00- 30.00	104.35
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1248628	50.0000	54.887	0.00- 30.00	100.00
3.276	3.276 (0.406)	96	1173581			0.00- 30.00	93.99
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	981127	50.0000	58.409	0.00- 30.00	100.00
3.386	3.386 (0.420)	49	244488			0.00- 30.00	24.92
3.386	3.386 (0.420)	66	294358			0.00- 30.00	30.00
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2720758	50.0000	52.976	0.00- 30.00	100.00
3.718	3.718 (0.461)	103	1767436			0.00- 30.00	64.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	579160	50.0000	54.572	0.00- 30.00	100.00
4.078	4.078 (0.506)	43	107110			0.00- 30.00	18.49
4.078	4.078 (0.506)	46	244063			0.00- 30.00	42.14
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1739055	50.0000	52.864	0.00- 30.00	100.00
4.520	4.520 (0.561)	153	1113112			0.00- 30.00	64.01
4.520	4.520 (0.561)	101	2450536			0.00- 30.00	140.91
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	2326555	50.0000	53.968	0.00- 30.00	100.00
4.575	4.575 (0.568)	96	1385973			0.00- 30.00	59.57
4.575	4.575 (0.568)	98	897088			0.00- 30.00	38.56
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	836419	50.0000	53.416	0.00- 30.00	100.00
4.713	4.713 (0.585)	43	2437072			0.00- 30.00	291.37
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2811329	50.0000	57.041	0.00- 30.00	100.00
4.907	4.907 (0.609)	43	615600			0.00- 30.00	21.90
4.907	4.907 (0.609)	59	104521			0.00- 30.00	3.72
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	4294678	50.0000	55.720	0.00- 30.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	687786	50.0000	54.454	0.00- 30.00	100.00
5.184	5.184 (0.643)	41	2358995			0.00- 30.00	342.98
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1868214	50.0000	51.424	0.00- 30.00	100.00
5.432	5.432 (0.674)	84	1222787			0.00- 30.00	65.45
5.432	5.432 (0.674)	51	573790			0.00- 30.00	30.71
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1102291	50.0000	54.276	0.00- 30.00	100.00
5.764	5.764 (0.715)	57	341483			0.00- 30.00	30.98
5.764	5.764 (0.715)	41	375556			0.00- 30.00	34.07
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1527726	50.0000	52.214	0.00- 30.00	100.00
5.819	5.819 (0.722)	61	2344191			0.00- 30.00	153.44
5.819	5.819 (0.722)	98	976920			0.00- 30.00	63.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2927784	50.0000	55.261	0.00- 30.00	100.00
6.151	6.151 (0.763)	43	1930560			0.00- 30.00	65.94
6.151	6.151 (0.763)	86	438925			0.00- 30.00	14.99
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2625458	50.0000	52.016	0.00- 30.00	100.00
6.594	6.594 (0.818)	65	801588			0.00- 30.00	30.53
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	653448	50.0000	61.556	0.00- 30.00	100.00
7.644	7.644 (0.949)	43	3236815			0.00- 30.00	495.34
7.644	7.644 (0.949)	57	235169			0.00- 30.00	35.99
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1901210	50.0000	54.358	0.00- 30.00	100.00
7.617	7.617 (0.945)	96	1386646			0.00- 30.00	72.93
7.617	7.617 (0.945)	98	882121			0.00- 30.00	46.40
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1990499	50.0000	49.320	0.00- 30.00	100.00
8.031	8.031 (0.997)	71	554046			0.00- 30.00	27.83
8.031	8.031 (0.997)	72	646318			0.00- 30.00	32.47
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2195787	50.0000	51.327	0.00- 30.00	100.00
8.197	8.197 (1.017)	85	1417849			0.00- 30.00	64.57
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	2067483	50.0000	56.536	0.00- 30.00	100.00
8.419	8.419 (1.045)	99	1313905			0.00- 30.00	63.55
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	1874533	50.0000	55.965	0.00- 30.00	100.00
8.391	8.391 (1.041)	56	2732449			0.00- 30.00	145.77
8.391	8.391 (1.041)	41	1433054			0.00- 30.00	76.45
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	328600	50.0000	61.445	0.00- 30.00	100.00
6.649	6.649 (0.825)	43	3924277			0.00- 30.00	1194.24
6.649	6.649 (0.825)	42	306407			0.00- 30.00	93.25
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1708355	50.0000	56.450	0.00- 30.00	100.00
8.667	8.667 (1.075)	117	1819432			0.00- 30.00	106.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7843601	50.0000	59.160	0.00- 30.00	100.00
9.110	9.110 (1.130)	56	2575698			0.00- 30.00	32.84
9.110	9.110 (1.130)	41	2000498			0.00- 30.00	25.50
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3783893	50.0000	48.499	0.00- 30.00	100.00
9.082	9.082 (0.916)	77	866762			0.00- 30.00	22.91
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1529599	50.0000	56.604	0.00- 30.00	100.00
9.276	9.276 (0.936)	64	482939			0.00- 30.00	31.57
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	441592	50.0000	60.463	0.00- 30.00	100.00
9.469	9.469 (0.955)	43	3043254			0.00- 30.00	689.16
9.469	9.469 (0.955)	71	1314738			0.00- 30.00	297.73
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1421851	50.0000	52.874	0.00- 30.00	100.00
10.326	10.326 (1.042)	130	1388619			0.00- 30.00	97.66
10.326	10.326 (1.042)	97	940749			0.00- 30.00	66.16
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	1387867	50.0000	58.642	0.00- 30.00	100.00
10.824	10.824 (1.092)	62	981188			0.00- 30.00	70.70
10.824	10.824 (1.092)	41	887775			0.00- 30.00	63.97
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	810321	50.0000	55.246	0.00- 30.00	100.00
11.045	11.045 (1.114)	58	689158			0.00- 30.00	85.05
11.073	11.073 (1.117)	57	210120			0.00- 30.00	25.93
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1983706	50.0000	57.719	0.00- 30.00	100.00
11.405	11.405 (1.151)	85	1265075			0.00- 30.00	63.77
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1490415	50.0000	61.621	0.00- 30.00	100.00
12.317	12.317 (1.243)	77	463217			0.00- 30.00	31.08
12.317	12.317 (1.243)	39	990716			0.00- 30.00	66.47
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1137043	50.0000	62.986	0.00- 30.00	100.00
12.594	12.594 (1.271)	43	3136887			0.00- 30.00	275.88
12.594	12.594 (1.271)	85	413099			0.00- 30.00	36.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3574531	50.0000	54.683	0.00- 30.00	100.00
12.815	12.815 (1.293)	92	2195175			0.00- 30.00	61.41
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1451948	50.0000	71.899	0.00- 30.00	100.00
13.368	13.368 (0.891)	77	458276			0.00- 30.00	31.56
13.340	13.340 (0.889)	39	894415			0.00- 30.00	61.60
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1261180	50.0000	55.392	0.00- 30.00	100.00
13.644	13.644 (0.910)	99	784109			0.00- 30.00	62.17
13.644	13.644 (0.910)	83	1080934			0.00- 30.00	85.71
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1427879	50.0000	54.613	0.00- 30.00	100.00
13.672	13.672 (0.912)	129	1134440			0.00- 30.00	79.45
13.672	13.672 (0.912)	131	1088299			0.00- 30.00	76.22
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1561449	50.0000	61.552	0.00- 30.00	100.00
14.004	14.004 (0.934)	43	3097075			0.00- 30.00	198.35
14.031	14.031 (0.935)	100	259535			0.00- 30.00	16.62
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1763520	50.0000	59.715	0.00- 30.00	100.00
14.197	14.197 (0.947)	127	1363734			0.00- 30.00	77.33
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1890623	50.0000	57.319	0.00- 30.00	100.00
14.363	14.363 (0.958)	109	1783133			0.00- 30.00	94.31
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2847900	50.0000	52.188	0.00- 30.00	100.00
15.027	15.027 (1.002)	114	924613			0.00- 30.00	32.47
15.027	15.027 (1.002)	77	1718928			0.00- 30.00	60.36
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1576809	50.0000	56.285	0.00- 30.00	100.00
15.165	15.165 (1.011)	91	5127409			0.00- 30.00	325.18
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1988024	50.0000	61.638	0.00- 30.00	100.00
15.331	15.331 (1.022)	91	4158573			0.00- 30.00	209.18
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1798941	50.0000	56.505	0.00- 30.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	4022346			0.00- 30.00	223.60
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2847580	50.0000	62.940	0.00- 30.00	100.00
15.912	15.912 (1.061)	78	1398872			0.00- 30.00	49.12
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1563710	50.0000	61.393	0.00- 30.00	100.00
16.160	16.160 (1.077)	171	816987			0.00- 30.00	52.25
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2769051	50.0000	55.188	0.00- 30.00	100.00
16.796	16.796 (1.120)	85	1780283			0.00- 30.00	64.29
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5556191	50.0000	60.330	0.00- 30.00	100.00
16.962	16.962 (1.131)	120	1640784			0.00- 30.00	29.53
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	5075222	50.0000	60.500	0.00- 30.00	100.00
17.045	17.045 (1.136)	120	2435077			0.00- 30.00	47.98
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4215606	50.0000	61.343	0.00- 30.00	100.00
17.460	17.460 (1.164)	120	1977393			0.00- 30.00	46.91
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2864246	50.0000	53.019	0.00- 30.00	100.00
17.764	17.764 (1.184)	148	1800929			0.00- 30.00	62.88
17.764	17.764 (1.184)	111	1147044			0.00- 30.00	40.05
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3473268	50.0000	57.463	0.00- 30.00	100.00
17.847	17.847 (1.190)	148	2167849			0.00- 30.00	62.42
17.847	17.847 (1.190)	111	1442405			0.00- 30.00	41.53
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4863935	50.0000	72.920	0.00- 30.00	100.00
17.985	17.985 (1.199)	126	941731			0.00- 30.00	19.36
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2992844	50.0000	52.029	0.00- 30.00	100.00
18.206	18.206 (1.214)	148	1849539			0.00- 30.00	61.80
18.206	18.206 (1.214)	111	1179243			0.00- 30.00	39.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1971011	50.0000	51.968	0.00- 30.00	100.00
19.506	19.506 (1.300)	182	1847163			0.00- 30.00	93.72
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1349263	50.0000	49.997	0.00- 30.00	100.00
19.589	19.589 (1.306)	223	858952			0.00- 30.00	63.66
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6547119	50.0000	60.187	0.00- 30.00	100.00
16.824	16.824 (1.122)	120	1432388			0.00- 30.00	21.88
16.824	16.824 (1.122)	105	221298			0.00- 30.00	3.38
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5419442	50.0000	57.420	0.00- 30.00	100.00
16.326	16.326 (1.088)	120	1440972			0.00- 30.00	26.59
16.326	16.326 (1.088)	51	722781			0.00- 30.00	13.34
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	8045501	50.0000	57.639	0.00- 30.00	100.00
19.672	19.672 (1.312)	127	1001393			0.00- 30.00	12.45
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2600428	50.0000	52.143	0.00- 30.00	100.00
3.414	3.414 (0.424)	57	1710800			0.00- 30.00	65.79
3.414	3.414 (0.424)	72	181469			0.00- 30.00	6.98
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	467132	50.0000	51.170	0.00- 30.00	100.00
2.667	2.667 (0.331)	43	3264515			0.00- 30.00	698.84
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	2222077	50.0000	56.577	0.00- 30.00	100.00
10.548	10.548 (1.064)	98	1111251			0.00- 30.00	50.01
10.548	10.548 (1.064)	55	2254745			0.00- 30.00	101.47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102213.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 16:13
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	430369	258221	602517	430369	0.00
92 1,4-Difluorobenze	1595908	957545	2234271	1595908	0.00
125 Chlorobenzene-d5	1261170	756702	1765638	1261170	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

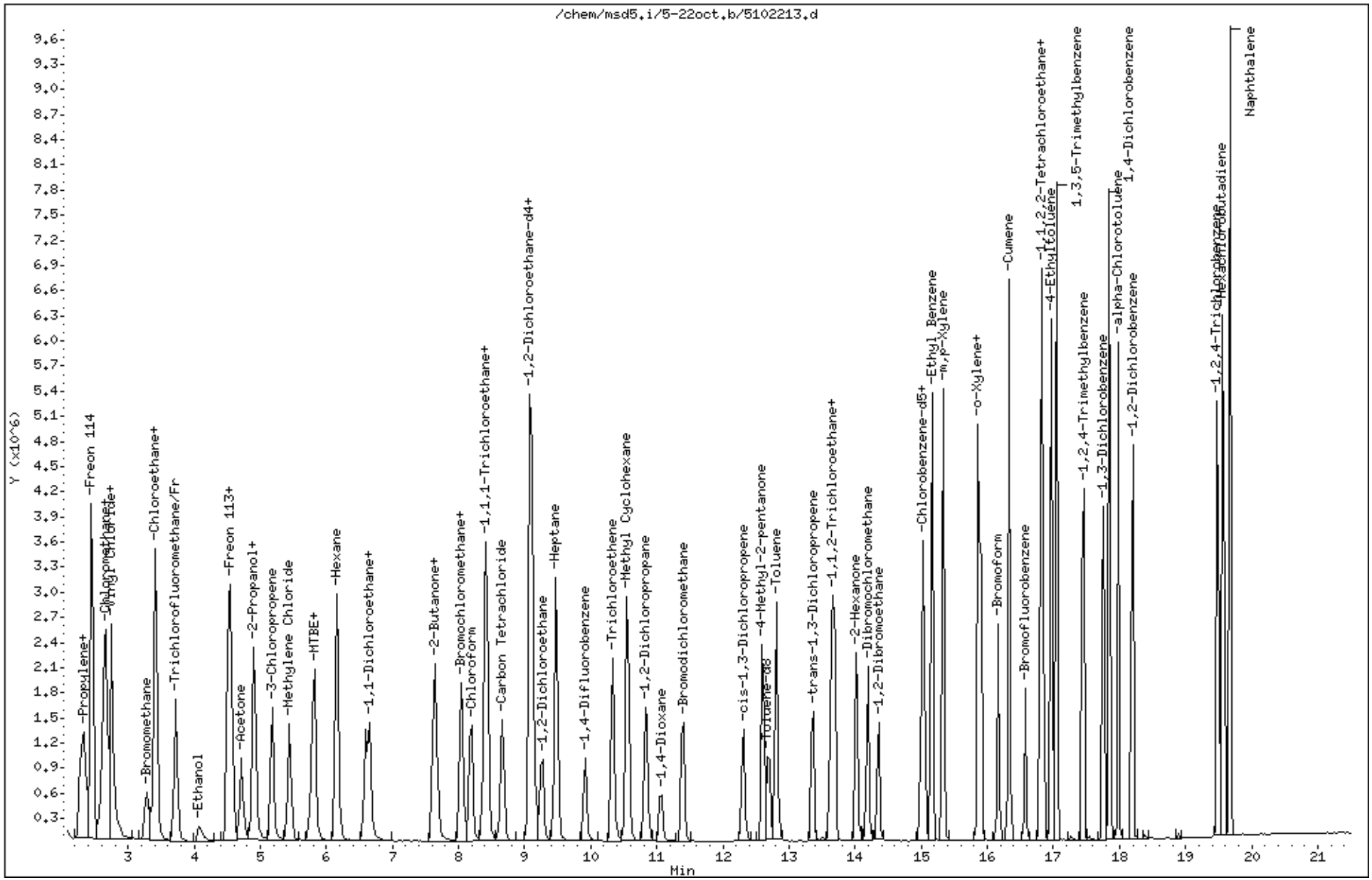
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0119

Data File: /chem/msd5.i/5-22oct.b/5102213.d
Date : 22-OCT-2007 16:13
Client ID: Level 5
Sample Info: 50ml #1576-46

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102214.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 22-OCT-2007 16:41
Operator : lmr Inst ID: msd5.i
Smp Info : 100ml #1576-46
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:52 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 16:41 Cal File: 5102214.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	432295	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	343024			49.35- 109.35	79.35
8.031	8.031 (1.000)	49	840777			164.49- 224.49	194.49
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1718454	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	269345			0.00- 45.67	15.67
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1295628	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	745297			27.52- 87.52	57.52
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	605948	25.0000	27.085	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	380264			32.76- 92.76	62.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1481244	25.0000	25.208	70.00- 130.00	100.00
12.676	12.676 (1.279)	70	143163			0.00- 39.67	9.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	1034313			39.83- 99.83	69.83
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	614931	25.0000	26.555	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	964824			126.90- 186.90	156.90
16.575	16.575 (1.105)	176	582312			64.70- 124.70	94.70
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2875818	100.000	101.61	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	1927452			37.02- 97.02	67.02
2.280	2.280 (0.283)	39	1991971			39.27- 99.27	69.27
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	5099893	100.000	96.836	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	1624204			1.85- 61.85	31.85
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	4677142	100.000	106.20	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1468761			1.40- 61.40	31.40
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	3765664	100.000	102.68	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	1154735			0.66- 60.66	30.66
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	3851609	100.000	102.13	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	1213002			1.49- 61.49	31.49
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	3317135	100.000	110.18	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	3671530			80.68- 140.68	110.68
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	2570292	100.000	109.74	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	2428571			64.49- 124.49	94.49
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1913575	100.000	110.45	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	479865			0.00- 55.08	25.08
3.414	3.414 (0.424)	66	579932			0.31- 60.31	30.31
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	5542010	100.000	105.86	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	3571442			34.44- 94.44	64.44

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	1022071	100.000	96.875	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	211313			0.00- 50.67	20.67
4.105	4.105 (0.509)	46	437208			12.78- 72.78	42.78
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	3509825	100.000	104.91	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	2232542			33.61- 93.61	63.61
4.520	4.520 (0.561)	101	4993820			112.28- 172.28	142.28
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	4743261	100.000	107.49	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	2762880			28.25- 88.25	58.25
4.575	4.575 (0.568)	98	1758621			7.08- 67.08	37.08
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1751069	100.000	108.26	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	5170864			265.30- 325.30	295.30
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	5904921	100.000	113.79	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1197218			0.00- 50.27	20.27
4.935	4.935 (0.612)	59	234398			0.00- 33.97	3.97
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	8801058	100.000	110.65	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	1410610	100.000	108.16	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	4791260			309.66- 369.66	339.66
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	3771692	100.000	102.67	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	2479509			35.74- 95.74	65.74
5.432	5.432 (0.674)	51	1156927			0.67- 60.67	30.67
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	2131207	100.000	103.54	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	663146			1.12- 61.12	31.12
5.764	5.764 (0.715)	41	671355			1.50- 61.50	31.50
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	3147115	100.000	105.59	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	4801903			122.58- 182.58	152.58
5.819	5.819 (0.722)	98	1976281			32.80- 92.80	62.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	6048903	100.000	110.64	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3959963			35.47- 95.47	65.47
6.151	6.151 (0.763)	86	908800			0.00- 45.02	15.02
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	5423336	100.000	105.50	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	1615522			0.00- 59.79	29.79
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1394986	100.000	123.23	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	6757222			454.39- 514.39	484.39
7.644	7.644 (0.949)	57	511490			6.67- 66.67	36.67
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	3822433	100.000	106.92	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	2766578			42.38- 102.38	72.38
7.617	7.617 (0.945)	98	1766611			16.22- 76.22	46.22
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	4116864	100.000	101.24	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	1197433			0.00- 59.09	29.09
8.031	8.031 (0.997)	72	1344378			2.66- 62.66	32.66
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	4449122	100.000	102.93	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2896811			35.11- 95.11	65.11
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	4254332	100.000	112.26	70.00- 130.00	100.00
8.418	8.418 (1.045)	99	2693180			33.30- 93.30	63.30
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	3799114	100.000	110.08	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	5563889			116.45- 176.45	146.45
8.391	8.391 (1.041)	41	3001326			49.00- 109.00	79.00
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	744516	100.000	126.40	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	8647023			1131.43-1191.43	1161.43
6.649	6.649 (0.825)	42	622861			53.66- 113.66	83.66
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3626807	100.000	114.87	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	3783910			74.33- 134.33	104.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	16394967	100.000	117.67	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	5351774			2.64- 62.64	32.64
9.110	9.110 (1.130)	41	3997543			0.00- 54.38	24.38
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	7838426	100.000	94.355	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1770055			0.00- 52.58	22.58
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	3169361	100.000	107.01	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	1015959			2.06- 62.06	32.06
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	920837	100.000	113.22	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	6425039			667.74- 727.74	697.74
9.469	9.469 (0.955)	71	2814496			275.65- 335.65	305.65
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2956772	100.000	101.68	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2830587			65.73- 125.73	95.73
10.326	10.326 (1.042)	97	1885894			33.78- 93.78	63.78
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	2859975	100.000	109.55	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	2022444			40.72- 100.72	70.72
10.824	10.824 (1.092)	41	1819071			33.60- 93.60	63.60
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1666123	100.000	104.06	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	1475405			58.55- 118.55	88.55
11.045	11.045 (1.114)	57	452782			0.00- 57.18	27.18
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	4123987	100.000	108.94	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	2668342			34.70- 94.70	64.70
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	3178391	100.000	116.89	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	1009700			1.77- 61.77	31.77
12.289	12.289 (1.240)	39	2034385			34.01- 94.01	64.01
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	2459239	100.000	120.14	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	6651167			240.46- 300.46	270.46
12.593	12.593 (1.271)	85	851764			4.64- 64.64	34.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	7473416	100.000	104.88	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	4430702			29.29- 89.29	59.29
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	3090706	100.000	135.69	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	990397			2.04- 62.04	32.04
13.340	13.340 (0.889)	39	1964631			33.57- 93.57	63.57
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2538299	100.000	106.70	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1599836			33.03- 93.03	63.03
13.644	13.644 (0.910)	83	2118825			53.47- 113.47	83.47
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	2855767	100.000	104.99	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	2309382			50.87- 110.87	80.87
13.699	13.699 (0.913)	131	2189730			46.68- 106.68	76.68
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	3361731	100.000	120.28	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	6579366			165.71- 225.71	195.71
14.031	14.031 (0.935)	100	530189			0.00- 45.77	15.77
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3688913	100.000	116.56	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2840566			47.00- 107.00	77.00
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	3818331	100.000	109.90	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	3598095			64.23- 124.23	94.23
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	5763512	100.000	102.23	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1820486			1.59- 61.59	31.59
15.027	15.027 (1.002)	77	3501759			30.76- 90.76	60.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	3221985	100.000	109.34	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	10540182			297.13- 357.13	327.13
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	4025978	100.000	116.49	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	8456498			180.05- 240.05	210.05
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	3729196	100.000	110.91	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	8411000			195.54- 255.54	225.54
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	5905079	100.000	121.57	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	3015322			21.06- 81.06	51.06
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	3221636	100.000	117.68	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1651678			21.27- 81.27	51.27
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	5663781	100.000	107.75	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	3573899			33.10- 93.10	63.10
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	11585924	100.000	117.19	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	3419807			0.00- 59.52	29.52
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	10427171	100.000	116.12	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	4985747			17.81- 77.81	47.81
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	8937466	100.000	120.20	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	4090762			15.77- 75.77	45.77
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	5854216	100.000	104.34	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	3768977			34.38- 94.38	64.38
17.764	17.764 (1.184)	111	2401163			11.02- 71.02	41.02
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	7061884	100.000	110.69	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	4388404			32.14- 92.14	62.14
17.847	17.847 (1.190)	111	2929235			11.48- 71.48	41.48
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	10887491	100.000	142.14	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	2089546			0.00- 49.19	19.19
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	5964984	100.000	100.75	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	3839094			34.36- 94.36	64.36
18.206	18.206 (1.214)	111	2427269			10.69- 70.69	40.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	4087142	100.000	103.63	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	3881736			64.97- 124.97	94.97
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2736722	100.000	99.031	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1710934			32.52- 92.52	62.52
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	13621174	100.000	116.78	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2897219			0.00- 51.27	21.27
16.824	16.824 (1.122)	105	469785			0.00- 33.45	3.45
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	11192539	100.000	112.54	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2989992			0.00- 56.71	26.71
16.326	16.326 (1.088)	51	1473671			0.00- 43.17	13.17
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14948462	100.000	103.15	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2036784			0.00- 43.63	13.63
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	5186265	100.000	102.62	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	3498202			37.45- 97.45	67.45
3.414	3.414 (0.424)	72	355825			0.00- 36.86	6.86
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	915181	100.000	99.852	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	6449872			674.76- 734.76	704.76
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	4527892	100.000	105.57	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	2250347			19.70- 79.70	49.70
10.547	10.547 (1.064)	55	4662949			72.98- 132.98	102.98

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102214.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 16:41
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	432295	259377	605213	432295	0.00
92 1,4-Difluorobenze	1718454	1031072	2405836	1718454	0.00
125 Chlorobenzene-d5	1295628	777377	1813879	1295628	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

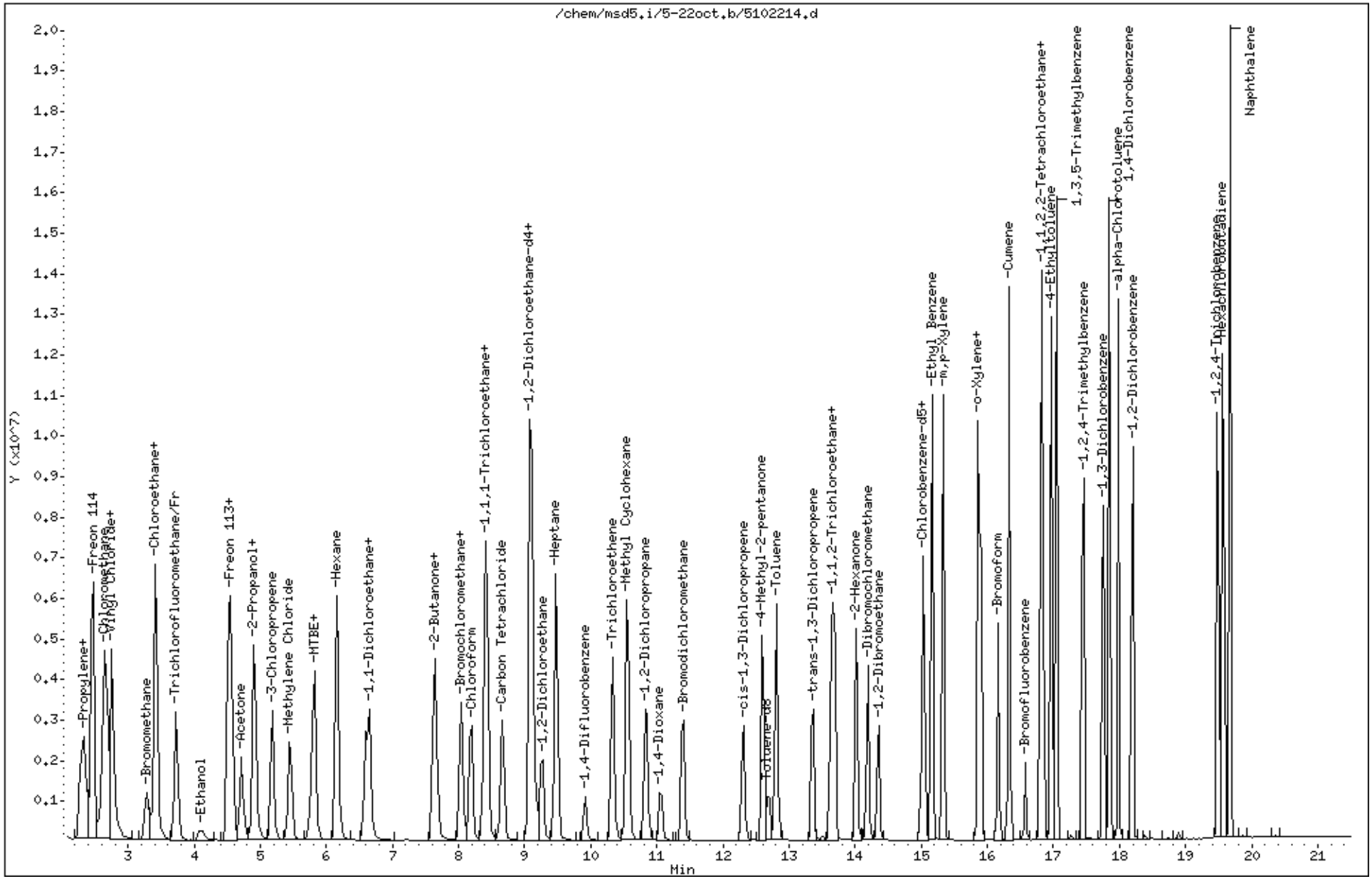
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0129

Data File: /chem/msd5.i/5-22oct.b/5102214.d
Date : 22-OCT-2007 16:41
Client ID: Level 6
Sample Info: 100ml #1576-46

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



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AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-22oct.b/5102215.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-OCT-2007 17:13
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1576-46
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-22oct.b/t14q1022a.m
Meth Date : 23-Oct-2007 08:52 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 17:13 Cal File: 5102215.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	450065	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	358156			49.35- 109.35	79.58
8.059	8.059 (1.000)	49	882816			164.49- 224.49	196.15
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1762455	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	291955			0.00- 45.67	16.57
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1347056	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	773583			27.52- 87.52	57.43
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	638442	25.0000	26.977	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	473753			32.76- 92.76	74.20
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1576430	25.0000	25.957	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	163768			0.00- 39.67	10.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	1148894			39.83- 99.83	72.88
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	637392	25.0000	26.216	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1021846			126.90- 186.90	160.32
16.575	16.575 (1.105)	176	602049			64.70- 124.70	94.46
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	6151689	200.000	206.96	70.00- 130.00	100.00(A)
2.280	2.280 (0.283)	42	4112982			37.02- 97.02	66.86
2.280	2.280 (0.283)	39	4299066			39.27- 99.27	69.88
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	11414562	200.000	206.77	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	87	3735755			1.85- 61.85	32.73
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	9418881	200.000	204.51	70.00- 130.00	100.00(A)
2.502	2.502 (0.310)	137	2939879			1.40- 61.40	31.21
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	7426387	200.000	195.58	70.00- 130.00	100.00
2.640	2.640 (0.328)	52	2209721			0.66- 60.66	29.75
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	7680727	200.000	196.33	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	2383816			1.49- 61.49	31.04
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	6666649	200.000	210.46	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	7734769			80.68- 140.68	116.02
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	5253258	200.000	212.70	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	4949781			64.49- 124.49	94.22
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	3910096	200.000	213.79	70.00- 130.00	100.00(A)
3.442	3.442 (0.427)	49	985382			0.00- 55.08	25.20
3.442	3.442 (0.427)	66	1175335			0.31- 60.31	30.06
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	11204984	200.000	204.62	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	7199088			34.44- 94.44	64.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	2152766	200.000	196.78	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	403458			0.00- 50.67	18.74
4.133	4.133 (0.513)	46	884948			12.78- 72.78	41.11
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	7085849	200.000	202.86	70.00- 130.00	100.00(A)
4.520	4.520 (0.561)	153	4411251			33.61- 93.61	62.25
4.520	4.520 (0.561)	101	9955804			112.28- 172.28	140.50
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	9699983	200.000	209.19	70.00- 130.00	100.00(A)
4.575	4.575 (0.568)	96	5643843			28.25- 88.25	58.18
4.575	4.575 (0.568)	98	3608178			7.08- 67.08	37.20
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	3676441	200.000	214.40	70.00- 130.00	100.00(A)
4.713	4.713 (0.585)	43	10304367			265.30- 325.30	280.28
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	12022272	200.000	217.63	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2485201			0.00- 50.27	20.67
4.935	4.935 (0.612)	59	455211			0.00- 33.97	3.79
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	17772510	200.000	212.04	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	2784766	200.000	204.05	70.00- 130.00	100.00(A)
5.184	5.184 (0.643)	41	9533394			309.66- 369.66	342.34
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	7511126	200.000	196.98	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	4988670			35.74- 95.74	66.42
5.460	5.460 (0.677)	51	2302304			0.67- 60.67	30.65
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	3577968	200.000	171.70	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	1106088			1.12- 61.12	30.91
5.764	5.764 (0.715)	41	1109880			1.50- 61.50	31.02
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	6296565	200.000	202.42	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	9724052			122.58- 182.58	154.43
5.819	5.819 (0.722)	98	4019859			32.80- 92.80	63.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	12366838	200.000	214.19	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	8139687			35.47- 95.47	65.82
6.151	6.151 (0.763)	86	1831111			0.00- 45.02	14.81
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	10903449	200.000	203.10	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	65	3345388			0.00- 59.79	30.68
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	2870493	200.000	235.03	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	14066820			454.39- 514.39	490.05
7.644	7.644 (0.949)	57	1072810			6.67- 66.67	37.37
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	7886981	200.000	209.82	70.00- 130.00	100.00(A)
7.617	7.617 (0.945)	96	5667513			42.38- 102.38	71.86
7.617	7.617 (0.945)	98	3616833			16.22- 76.22	45.86
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	8561466	200.000	201.85	70.00- 130.00	100.00(A)
8.031	8.031 (0.997)	71	2507465			0.00- 59.09	29.29
8.031	8.031 (0.997)	72	2758676			2.66- 62.66	32.22
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	9117175	200.000	202.22	70.00- 130.00	100.00(A)
8.197	8.197 (1.017)	85	5862594			35.11- 95.11	64.30
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	8692805	200.000	216.66	70.00- 130.00	100.00(A)
8.419	8.419 (1.045)	99	5601283			33.30- 93.30	64.44
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	7627360	200.000	210.12	70.00- 130.00	100.00(A)
8.419	8.419 (1.045)	56	11335499			116.45- 176.45	148.62
8.391	8.391 (1.041)	41	6053916			49.00- 109.00	79.37
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	1584283	200.000	244.11	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	18475795			1131.43-1191.43	1166.19
6.649	6.649 (0.825)	42	1311115			53.66- 113.66	82.76
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	7471111	200.000	222.24	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	7828605			74.33- 134.33	104.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	33527334	200.000	225.28	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	11034216			2.64- 62.64	32.91
9.110	9.110 (1.130)	41	8187587			0.00- 54.38	24.42
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	15626618	200.000	185.61	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	3570849			0.00- 52.58	22.85
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	6516878	200.000	211.98	70.00- 130.00	100.00(A)
9.276	9.276 (0.936)	64	2057069			2.06- 62.06	31.57
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1831346	200.000	216.03	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	13097209			667.74- 727.74	715.17
9.469	9.469 (0.955)	71	5642261			275.65- 335.65	308.09
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	6062356	200.000	202.72	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	5738432			65.73- 125.73	94.66
10.326	10.326 (1.042)	97	3858033			33.78- 93.78	63.64
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	5825553	200.000	214.43	70.00- 130.00	100.00(A)
10.852	10.852 (1.095)	62	4088724			40.72- 100.72	70.19
10.824	10.824 (1.092)	41	3628943			33.60- 93.60	62.29
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	3415462	200.000	206.35	70.00- 130.00	100.00(A)
11.045	11.045 (1.114)	58	3050792			58.55- 118.55	89.32
11.045	11.045 (1.114)	57	904302			0.00- 57.18	26.48
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	8486523	200.000	215.26	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	5478694			34.70- 94.70	64.56
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6678883	200.000	231.86	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	2071671			1.77- 61.77	31.02
12.289	12.289 (1.240)	39	4349581			34.01- 94.01	65.12
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	5148470	200.000	236.33	70.00- 130.00	100.00(A)
12.594	12.594 (1.271)	43	14111447			240.46- 300.46	274.09
12.594	12.594 (1.271)	85	1764195			4.64- 64.64	34.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	15367043	200.000	208.49	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	8995902			29.29- 89.29	58.54
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	6681733	200.000	264.06	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	2090140			2.04- 62.04	31.28
13.340	13.340 (0.889)	39	4222714			33.57- 93.57	63.20
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	5141870	200.000	206.54	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	3167555			33.03- 93.03	61.60
13.644	13.644 (0.910)	83	4276147			53.47- 113.47	83.16
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	5633603	200.000	199.34	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	4571105			50.87- 110.87	81.14
13.700	13.700 (0.913)	131	4468569			46.68- 106.68	79.32
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	7161514	200.000	235.50	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	14059431			165.71- 225.71	196.32
14.031	14.031 (0.935)	100	1134729			0.00- 45.77	15.84
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7463696	200.000	221.86	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	5888094			47.00- 107.00	78.89
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	7842806	200.000	214.06	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	7343097			64.23- 124.23	93.63
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	11602480	200.000	198.29	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	3708618			1.59- 61.59	31.96
15.027	15.027 (1.002)	77	7147474			30.76- 90.76	61.60
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	6341759	200.000	205.79	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	18938890			297.13- 357.13	298.64
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	8037859	200.000	219.37	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	17135842			180.05- 240.05	213.19
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	7307106	200.000	207.46	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	16561349			195.54- 255.54	226.65
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	12147322	200.000	233.76	70.00- 130.00	100.00(A)
15.912	15.912 (1.061)	78	6249744			21.06- 81.06	51.45
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	6514944	200.000	223.51	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3403509			21.27- 81.27	52.24
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	11127415	200.000	203.00	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	7105127			33.10- 93.10	63.85
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	21290272	200.000	205.91	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	6640104			0.00- 59.52	31.19
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	16625539	200.000	181.39	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	9400652			17.81- 77.81	56.54
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	18183660	200.000	228.51	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	8338703			15.77- 75.77	45.86
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	11656545	200.000	199.85	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	7367941			34.38- 94.38	63.21
17.764	17.764 (1.184)	111	4677545			11.02- 71.02	40.13
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	13198314	200.000	199.14	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	8232496			32.14- 92.14	62.38
17.847	17.847 (1.190)	111	5576059			11.48- 71.48	42.25
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14908782	200.000	189.23	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	4207837			0.00- 49.19	28.22
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	11740570	200.000	192.22	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	7428223			34.36- 94.36	63.27
18.206	18.206 (1.214)	111	4840769			10.69- 70.69	41.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	8433908	200.000	204.51	70.00- 130.00	100.00(A)
19.506	19.506 (1.300)	182	7918982			64.97- 124.97	93.89
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	5371498	200.000	189.42	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	3360269			32.52- 92.52	62.56
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	24418377	200.000	201.12	70.00- 130.00	100.00(A)
16.852	16.852 (1.123)	120	5775601			0.00- 51.27	23.65
16.824	16.824 (1.122)	105	930709			0.00- 33.45	3.81
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	18007680	200.000	177.43	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5871418			0.00- 56.71	32.61
16.326	16.326 (1.088)	51	2990674			0.00- 43.17	16.61
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	16306083	200.000	119.16	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	3818650			0.00- 43.63	23.42
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	10419742	200.000	198.43	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	7055221			37.45- 97.45	67.71
3.414	3.414 (0.424)	72	723251			0.00- 36.86	6.94
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1862376	200.000	196.12	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	13095376			674.76- 734.76	703.15
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	9259378	200.000	208.68	70.00- 130.00	100.00(A)
10.548	10.548 (1.064)	98	4555939			19.70- 79.70	49.20
10.548	10.548 (1.064)	55	9571720			72.98- 132.98	103.37

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: msd5.i
Lab File ID: 5102215.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-22oct.b/t14q1022a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 22-OCT-2007
Calibration Time: 17:13
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	450065	270039	630091	450065	0.00
92 1,4-Difluorobenze	1762455	1057473	2467437	1762455	0.00
125 Chlorobenzene-d5	1347056	808234	1885878	1347056	0.00

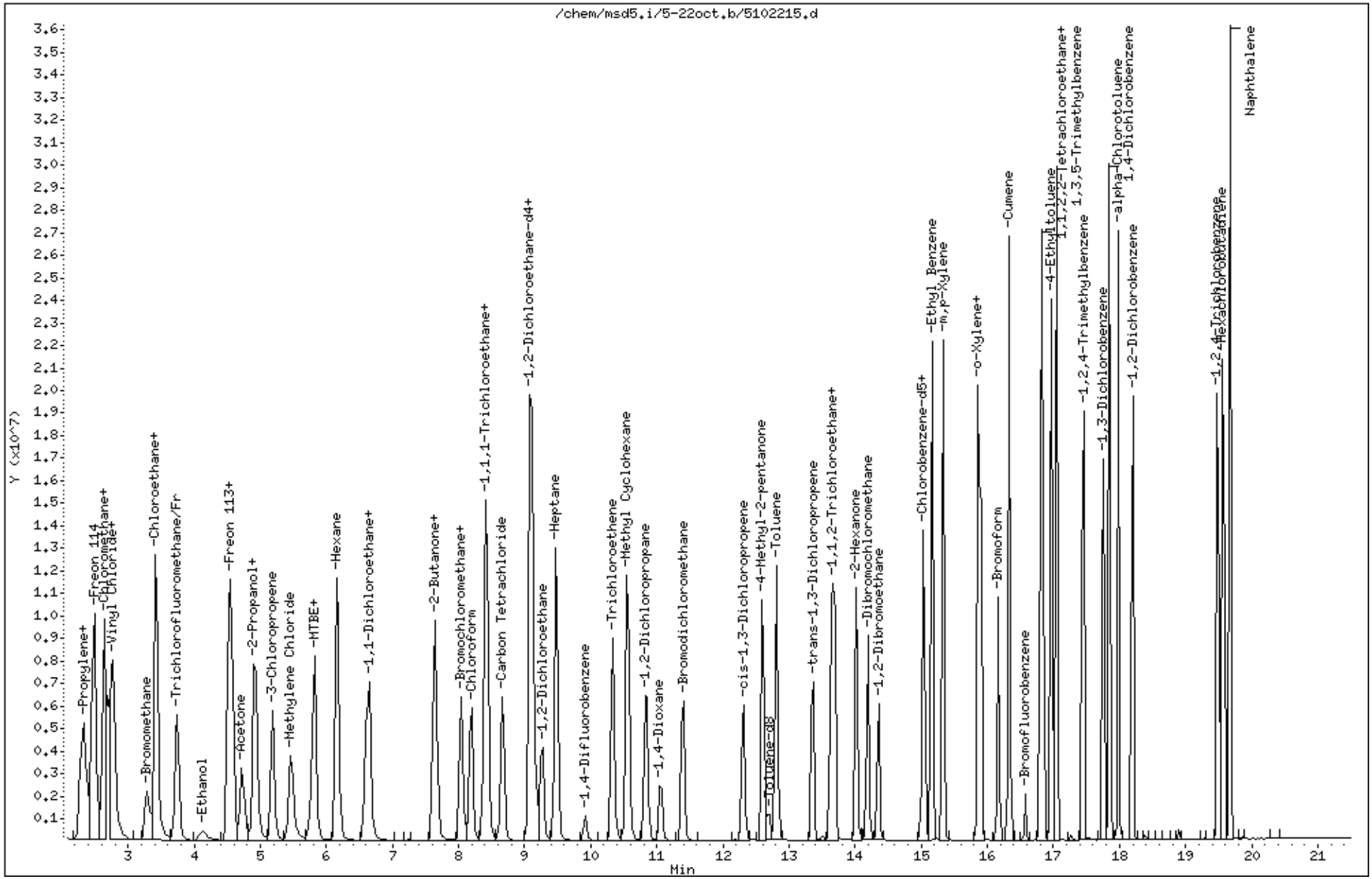
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/msd5.i/5-22oct.b/5102215.d
Date : 22-OCT-2007 17:13
Client ID: Level 7
Sample Info: 200ml #1576-46

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0710475-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/07 09:06 AM**	

Compound	%Recovery
Freon 12	74
Freon 114	96
Vinyl Chloride	87
Bromomethane	87
Chloroethane	90
Freon 11	92
1,1-Dichloroethene	95
Freon 113	92
Methylene Chloride	89
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	98
Chloroform	93
1,1,1-Trichloroethane	97
Carbon Tetrachloride	99
Benzene	91
1,2-Dichloroethane	98
Trichloroethene	96
1,2-Dichloropropane	103
cis-1,3-Dichloropropene	106
Toluene	98
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	97
Tetrachloroethene	91
1,2-Dibromoethane (EDB)	98
Chlorobenzene	90
Ethyl Benzene	95
m,p-Xylene	102
o-Xylene	98
Styrene	104
1,1,2,2-Tetrachloroethane	95
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	87
1,3-Butadiene	92
Hexane	96
Cyclohexane	98

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0710475-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/07 09:06 AM**	

Compound	%Recovery
Heptane	102
Bromodichloromethane	100
Dibromochloromethane	98
Cumene	98
Propylbenzene	99
Chloromethane	84
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	82
Acetone	94
Carbon Disulfide	94
2-Propanol	89
trans-1,2-Dichloroethene	91
2-Butanone (Methyl Ethyl Ketone)	105
Tetrahydrofuran	89
1,4-Dioxane	95
4-Methyl-2-pentanone	107
2-Hexanone	97
Bromoform	96
4-Ethyltoluene	96
Ethanol	84
Methyl tert-butyl ether	98
3-Chloropropene	91
2,2,4-Trimethylpentane	101
Naphthalene	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	118	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 29-OCT-2007 09:06
Lab File ID: 5102902.d Init. Cal. Date(s): 22-OCT-2007 22-OCT-2007
Analysis Type: AIR Init. Cal. Times: 14:23 20:23
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-29oct.b/t14q1022a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.31460	1.27301	0.010	3.16297	30.00000	Averaged
$ 107 Toluene-d8	0.86146	0.89297	0.010	-3.65660	30.00000	Averaged
$ 138 Bromofluorobenzene	0.45122	0.53218	0.010	-17.94195	30.00000	Averaged
6 Propylene	1.65106	1.34872	0.010	18.31216	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	3.06644	2.27977	0.010	25.65406	30.00000	Averaged
9 Freon 114	2.55833	2.44669	0.010	4.36397	30.00000	Averaged
10 Chloromethane	2.10915	1.77345	0.010	15.91616	30.00000	Averaged
13 Vinyl Chloride	2.17307	1.89775	0.010	12.66947	30.00000	Averaged
12 1,3-Butadiene	1.75951	1.61437	0.010	8.24923	30.00000	Averaged
15 Bromomethane	1.37190	1.19708	0.010	12.74291	30.00000	Averaged
19 Chloroethane	1.01595	0.91999	0.010	9.44478	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.04177	2.81393	0.010	7.49038	30.00000	Averaged
26 Ethanol	0.60769	0.51081	0.010	15.94210	30.00000	Averaged
30 Freon 113	1.94026	1.78198	0.010	8.15759	30.00000	Averaged
31 1,1-Dichloroethene	2.57567	2.45485	0.010	4.69050	30.00000	Averaged
32 Acetone	0.95251	0.89208	0.010	6.34484	30.00000	Averaged
36 2-Propanol	3.06860	2.74329	0.010	10.60112	30.00000	Averaged
35 Carbon Disulfide	4.65588	4.35956	0.010	6.36449	30.00000	Averaged
38 3-Chloropropene	0.75807	0.69151	0.010	8.77952	30.00000	Averaged
43 Methylene Chloride	2.11813	1.88344	0.010	11.07979	30.00000	Averaged
46 MTBE	1.15754	1.13182	0.010	2.22150	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.72789	1.57525	0.010	8.83394	30.00000	Averaged
51 Hexane	3.20724	3.07826	0.010	4.02151	30.00000	Averaged
55 1,1-Dichloroethane	2.98214	2.84064	0.010	4.74507	30.00000	Averaged
67 2-Butanone	0.67843	0.71173	0.010	-4.90875	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.08800	2.03888	0.010	2.35269	30.00000	Averaged
70 Tetrahydrofuran	2.35606	2.09809	0.010	10.94894	30.00000	Averaged
72 Chloroform	2.50436	2.33977	0.010	6.57233	30.00000	Averaged
75 1,1,1-Trichloroethane	2.22865	2.16597	0.010	2.81228	30.00000	Averaged
74 Cyclohexane	2.01637	1.98426	0.010	1.59252	30.00000	Averaged
56 Vinyl Acetate	0.36051	0.35314	0.010	2.04242	30.00000	Averaged
77 Carbon Tetrachloride	1.86739	1.84246	0.010	1.33516	30.00000	Averaged
80 2,2,4-Trimethylpentane	8.26666	8.37508	0.010	-1.31158	30.00000	Averaged
81 Benzene	1.19423	1.08763	0.010	8.92590	30.00000	Averaged
85 1,2-Dichloroethane	0.43609	0.42643	0.010	2.21550	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 29-OCT-2007 09:06
Lab File ID: 5102902.d Init. Cal. Date(s): 22-OCT-2007 22-OCT-2007
Analysis Type: AIR Init. Cal. Times: 14:23 20:23
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-29oct.b/t14q1022a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.12025	0.12281	0.010	-2.13308	30.00000	Averaged
93 Trichloroethene	0.42419	0.40675	0.010	4.11151	30.00000	Averaged
98 1,2-Dichloropropane	0.38537	0.39553	0.010	-2.63776	30.00000	Averaged
99 1,4-Dioxane	0.23479	0.22273	0.010	5.13644	30.00000	Averaged
100 Bromodichloromethane	0.55923	0.56160	0.010	-0.42459	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.40861	0.43409	0.010	-6.23651	30.00000	Averaged
106 4-Methyl-2-pentanone	0.30901	0.32965	0.010	-6.67720	30.00000	Averaged
108 Toluene	1.04552	1.02160	0.010	2.28769	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.46961	0.52282	0.010	-11.33166	30.00000	Averaged
114 1,1,2-Trichloroethane	0.46204	0.44654	0.010	3.35531	30.00000	Averaged
116 Tetrachloroethene	0.52449	0.47773	0.010	8.91439	30.00000	Averaged
119 2-Hexanone	0.56437	0.54783	0.010	2.93020	30.00000	Averaged
120 Dibromochloromethane	0.62434	0.61297	0.010	1.82098	30.00000	Averaged
122 1,2-Dibromoethane	0.67998	0.66602	0.010	2.05307	30.00000	Averaged
126 Chlorobenzene	1.08594	0.97416	0.010	10.29380	30.00000	Averaged
128 Ethyl Benzene	0.57192	0.54591	0.010	4.54755	30.00000	Averaged
130 m,p-Xylene	0.68002	0.69255	0.010	-1.84237	30.00000	Averaged
132 o-Xylene	0.65367	0.63763	0.010	2.45435	30.00000	Averaged
133 Styrene	0.96441	1.00370	0.010	-4.07482	30.00000	Averaged
134 Bromoform	0.54096	0.51840	0.010	4.17044	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.01731	0.96584	0.010	5.05911	30.00000	Averaged
144 4-Ethyltoluene	1.91894	1.84641	0.010	3.77946	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.70105	1.67211	0.010	1.70163	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.47683	1.45705	0.010	1.33939	30.00000	Averaged
155 1,3-Dichlorobenzene	1.08248	0.98102	0.010	9.37255	30.00000	Averaged
156 1,4-Dichlorobenzene	1.23000	1.08901	0.010	11.46289	30.00000	Averaged
157 alpha-Chlorotoluene	1.46219	1.57077	0.010	-7.42559	30.00000	Averaged
159 1,2-Dichlorobenzene	1.13358	0.98956	0.010	12.70449	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.76535	0.61582	0.010	19.53730	30.00000	Averaged
164 Hexachlorobutadiene	0.52628	0.43198	0.010	17.91801	30.00000	Averaged
142 Propylbenzene	2.25325	2.24019	0.010	0.57972	30.00000	Averaged
136 Cumene	1.88363	1.84966	0.010	1.80345	30.00000	Averaged
165 Naphthalene	2.53967	2.32235	0.010	8.55704	30.00000	Averaged
17 Isopentane	2.91685	2.56376	0.010	12.10503	30.00000	Averaged
11 Butane	0.52748	0.43422	0.010	17.68166	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 29-OCT-2007 09:06
Lab File ID: 5102902.d Init. Cal. Date(s): 22-OCT-2007 22-OCT-2007
Analysis Type: AIR Init. Cal. Times: 14:23 20:23
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-29oct.b/t14q1022a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.62940	0.61333	0.010	2.55461	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29oct.b/5102902.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 29-OCT-2007 09:06
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1576-46
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd5.i/5-29oct.b/t14q1022a.m
Meth Date : 29-Oct-2007 09:21 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 20:23 Cal File: 5102218.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	630178	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	494683			48.50- 108.50		78.50
8.059	8.059 (1.000)	49	1184635			157.98- 217.98		187.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.939	9.939 (1.000)	114	2424401	25.0000		80.00- 120.00		100.00
9.939	9.939 (1.000)	88	398534			0.00- 46.44		16.44
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1903929	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	1081304			27.52- 87.52		56.79
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	802226	25.0000	24.209	80.00- 120.00		100.00
9.137	9.137 (1.134)	67	491430			32.76- 92.76		61.26
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.278)	98	2164906	25.0000	25.914	80.00- 120.00		100.00
12.704	12.704 (1.278)	70	220058			0.00- 39.67		10.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	1473458			39.83- 99.83	68.06
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	1013237	25.0000	29.485	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1695499			137.33- 197.33	167.33
16.575	16.575 (1.105)	176	980998			66.82- 126.82	96.82
6 Propylene					CAS #: 115-07-1		
2.308	2.308 (0.286)	41	1699866	50.0000	40.844	80.00- 120.00	100.00
2.308	2.308 (0.286)	42	1185660			37.02- 97.02	69.75
2.308	2.308 (0.286)	39	1258973			39.27- 99.27	74.06
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.293)	85	2873323	50.0000	37.173	80.00- 120.00	100.00
2.363	2.363 (0.293)	87	940365			1.85- 61.85	32.73
9 Freon 114					CAS #: 76-14-2		
2.501	2.501 (0.310)	135	3083697	50.0000	47.818	80.00- 120.00	100.00
2.501	2.501 (0.310)	137	991562			2.15- 62.15	32.15
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	2235180	50.0000	42.042	80.00- 120.00	100.00
2.640	2.640 (0.328)	52	617609			0.66- 60.66	27.63
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.348)	62	2391842	50.0000	43.665	80.00- 120.00	100.00
2.806	2.806 (0.348)	64	729200			1.49- 61.49	30.49
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	2034675	50.0000	45.875	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	2328992			80.68- 140.68	114.47
15 Bromomethane					CAS #: 74-83-9		
3.331	3.331 (0.413)	94	1508751	50.0000	43.628	80.00- 120.00	100.00
3.303	3.303 (0.410)	96	1378556			61.37- 121.37	91.37
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	1159519	50.0000	45.278	80.00- 120.00	100.00
3.442	3.442 (0.427)	49	301874			0.00- 55.08	26.03
3.442	3.442 (0.427)	66	355536			0.31- 60.31	30.66
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	3546552	50.0000	46.255	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	2267883			33.95- 93.95	63.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	643806	50.0000	42.029	80.00- 120.00	100.00
4.133	4.133 (0.513)	43	132456			0.00- 50.67	20.57
4.105	4.105 (0.509)	46	271340			12.78- 72.78	42.15
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	2245931	50.0000	45.921	80.00- 120.00	100.00
4.548	4.548 (0.564)	153	1453096			34.70- 94.70	64.70
4.548	4.548 (0.564)	101	3141138			109.86- 169.86	139.86
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	3093990	50.0000	47.655	80.00- 120.00	100.00
4.603	4.603 (0.571)	96	1724715			25.74- 85.74	55.74
4.603	4.603 (0.571)	98	1114637			6.03- 66.03	36.03
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	1124337	50.0000	46.828	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	3237027			265.30- 325.30	287.91
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	3457525	50.0000	44.699	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	769610			0.00- 50.27	22.26
4.935	4.935 (0.612)	59	131316			0.00- 33.97	3.80
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	5494594	50.0000	46.818	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	871551	50.0000	45.610	80.00- 120.00	100.00
5.211	5.211 (0.647)	41	2996133			309.66- 369.66	343.77
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	2373811	50.0000	44.460	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	1567162			36.02- 96.02	66.02
5.460	5.460 (0.677)	51	713562			0.67- 60.67	30.06
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	1426499	50.0000	48.889	80.00- 120.00	100.00
5.792	5.792 (0.719)	57	427645			0.00- 59.98	29.98
5.792	5.792 (0.719)	41	443322			1.50- 61.50	31.08
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	1985378	50.0000	45.583	80.00- 120.00	100.00
5.847	5.847 (0.726)	61	3158135			129.07- 189.07	159.07
5.847	5.847 (0.726)	98	1236411			32.80- 92.80	62.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	3879708	50.0000	47.989	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	2522928			35.47- 95.47	65.03
6.179	6.179 (0.767)	86	574003			0.00- 45.02	14.80
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	3580213	50.0000	47.627	80.00- 120.00	100.00
6.621	6.621 (0.822)	65	1117283			1.21- 61.21	31.21
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	897034	50.0000	52.454	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	4245823			443.32- 503.32	473.32
7.672	7.672 (0.952)	57	321194			6.67- 66.67	35.81
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	2569709	50.0000	48.824	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	1843235			41.73- 101.73	71.73
7.644	7.644 (0.949)	98	1139658			14.35- 74.35	44.35
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	2644343	50.0000	44.526	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	800731			0.28- 60.28	30.28
8.059	8.059 (1.000)	72	899041			2.66- 62.66	34.00
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2948943	50.0000	46.714	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1894957			34.26- 94.26	64.26
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2729897	50.0000	48.594	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1761499			34.53- 94.53	64.53
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	2500868	50.0000	49.204	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	3654667			116.14- 176.14	146.14
8.418	8.418 (1.045)	41	1928244			47.10- 107.10	77.10
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	445088	50.0000	48.979	80.00- 120.00	100.00
6.677	6.677 (0.828)	43	5036610			1131.43-1191.43	1131.60
6.677	6.677 (0.828)	42	384834			53.66- 113.66	86.46
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2322152	50.0000	49.332	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2421219			74.27- 134.27	104.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	10555581	50.0000	50.656	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	3406369			2.64- 62.64	32.27
9.110	9.110 (1.130)	41	2516921			0.00- 54.38	23.84
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	5273710	50.0000	45.537	80.00- 120.00	100.00
9.082	9.082 (0.914)	77	1202945			0.00- 52.58	22.81
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.933)	62	2067665	50.0000	48.892	80.00- 120.00	100.00
9.276	9.276 (0.933)	64	654201			2.06- 62.06	31.64
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	595496	50.0000	51.066	80.00- 120.00	100.00
9.497	9.497 (0.955)	43	4070245			667.74- 727.74	683.51
9.497	9.497 (0.955)	71	1890822			275.65- 335.65	317.52
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.039)	95	1972232	50.0000	47.944	80.00- 120.00	100.00
10.354	10.354 (1.042)	130	1857155			64.17- 124.17	94.17
10.354	10.354 (1.042)	97	1272049			34.50- 94.50	64.50
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	1917860	50.0000	51.319	80.00- 120.00	100.00
10.852	10.852 (1.092)	62	1362158			41.02- 101.02	71.02
10.852	10.852 (1.092)	41	1150655			30.00- 90.00	60.00
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	1079957	50.0000	47.432	80.00- 120.00	100.00
11.073	11.073 (1.114)	58	948856			57.86- 117.86	87.86
11.073	11.073 (1.114)	57	276491			0.00- 57.18	25.60
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	2723102	50.0000	50.212	80.00- 120.00	100.00
11.405	11.405 (1.147)	85	1741269			33.94- 93.94	63.94
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	2104814	50.0000	53.118	80.00- 120.00	100.00
12.317	12.317 (1.239)	77	657474			1.24- 61.24	31.24
12.317	12.317 (1.239)	39	1299647			31.75- 91.75	61.75
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.267)	58	1598389	50.0000	53.338	80.00- 120.00	100.00
12.594	12.594 (1.267)	43	4177225			240.46- 300.46	261.34
12.621	12.621 (1.270)	85	547753			4.64- 64.64	34.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	4953548	50.0000	48.856	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	2953643			29.63- 89.63	59.63
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1990821	50.0000	55.666	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	620538			1.17- 61.17	31.17
13.368	13.368 (0.891)	39	1217273			31.14- 91.14	61.14
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1700345	50.0000	48.322	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	1052693			31.91- 91.91	61.91
13.644	13.644 (0.910)	83	1464991			56.16- 116.16	86.16
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1819140	50.0000	45.543	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1490004			51.91- 111.91	81.91
13.699	13.699 (0.913)	131	1426173			48.40- 108.40	78.40
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	2086052	50.0000	48.535	80.00- 120.00	100.00
14.031	14.031 (0.935)	43	3977262			160.66- 220.66	190.66
14.031	14.031 (0.935)	100	332272			0.00- 45.77	15.93
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2334113	50.0000	49.090	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1825001			47.00- 107.00	78.19
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	2536115	50.0000	48.973	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	2354171			62.83- 122.83	92.83
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	3709460	50.0000	44.853	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	1172083			1.60- 61.60	31.60
15.027	15.027 (1.002)	77	2278322			31.42- 91.42	61.42
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2078755	50.0000	47.726	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	6926299			297.13- 357.13	333.19
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2637114	50.0000	50.921	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	5397261			180.05- 240.05	204.67
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2427999	50.0000	48.773	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	5289812			187.87- 247.87	217.87
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	3821959	50.0000	52.037	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1898971			19.69- 79.69	49.69
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1973997	50.0000	47.915	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	1020684			21.71- 81.71	51.71
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3677783	50.0000	47.470	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	2336139			33.52- 93.52	63.52
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	7030882	50.0000	48.110	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	2121840			0.18- 60.18	30.18
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	6367152	50.0000	49.149	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	3030981			17.81- 77.81	47.60
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	5548235	50.0000	49.330	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	2634161			17.48- 77.48	47.48
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	3735590	50.0000	45.314	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	2356284			34.38- 94.38	63.08
17.764	17.764 (1.184)	111	1512667			11.02- 71.02	40.49
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	4146783	50.0000	44.268	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2644217			32.14- 92.14	63.77
17.847	17.847 (1.190)	111	1809642			11.48- 71.48	43.64
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	5981272	50.0000	53.713	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	1110128			0.00- 49.19	18.56
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	3768121	50.0000	43.648	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	2406245			33.86- 93.86	63.86
18.206	18.206 (1.214)	111	1498166			9.76- 69.76	39.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	2344961	50.0000	40.231	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	2240681			65.55- 125.55	95.55
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1644913	50.0000	41.041	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	1021822			32.12- 92.12	62.12
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	8530315	50.0000	49.710	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	1825786			0.00- 51.27	21.40
16.824	16.824 (1.122)	105	294848			0.00- 33.45	3.46
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	7043229	50.0000	49.098	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1904885			0.00- 56.71	27.05
16.326	16.326 (1.088)	51	899562			0.00- 43.17	12.77
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	8843193	50.0000	45.721	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	1094251			0.00- 43.63	12.37
17 Isopentane					CAS #: 78-78-4		
3.442	3.442 (0.427)	43	3231255	50.0000	43.947	80.00- 120.00	100.00
3.442	3.442 (0.427)	57	2186119			37.45- 97.45	67.66
3.442	3.442 (0.427)	72	217856			0.00- 36.86	6.74
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	547267	50.0000	41.159	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	3884176			674.76- 734.76	709.74
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	2973895	50.0000	48.723	80.00- 120.00	100.00
10.575	10.575 (1.064)	98	1442484			19.70- 79.70	48.50
10.575	10.575 (1.064)	55	2969072			72.98- 132.98	99.84

Report Date: 29-Oct-2007 09:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102902.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /var/chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 29-OCT-2007
Calibration Time: 09:06
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	630178	378107	882249	630178	0.00
92 1,4-Difluorobenze	2424401	1454641	3394161	2424401	0.00
125 Chlorobenzene-d5	1903929	1142357	2665501	1903929	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

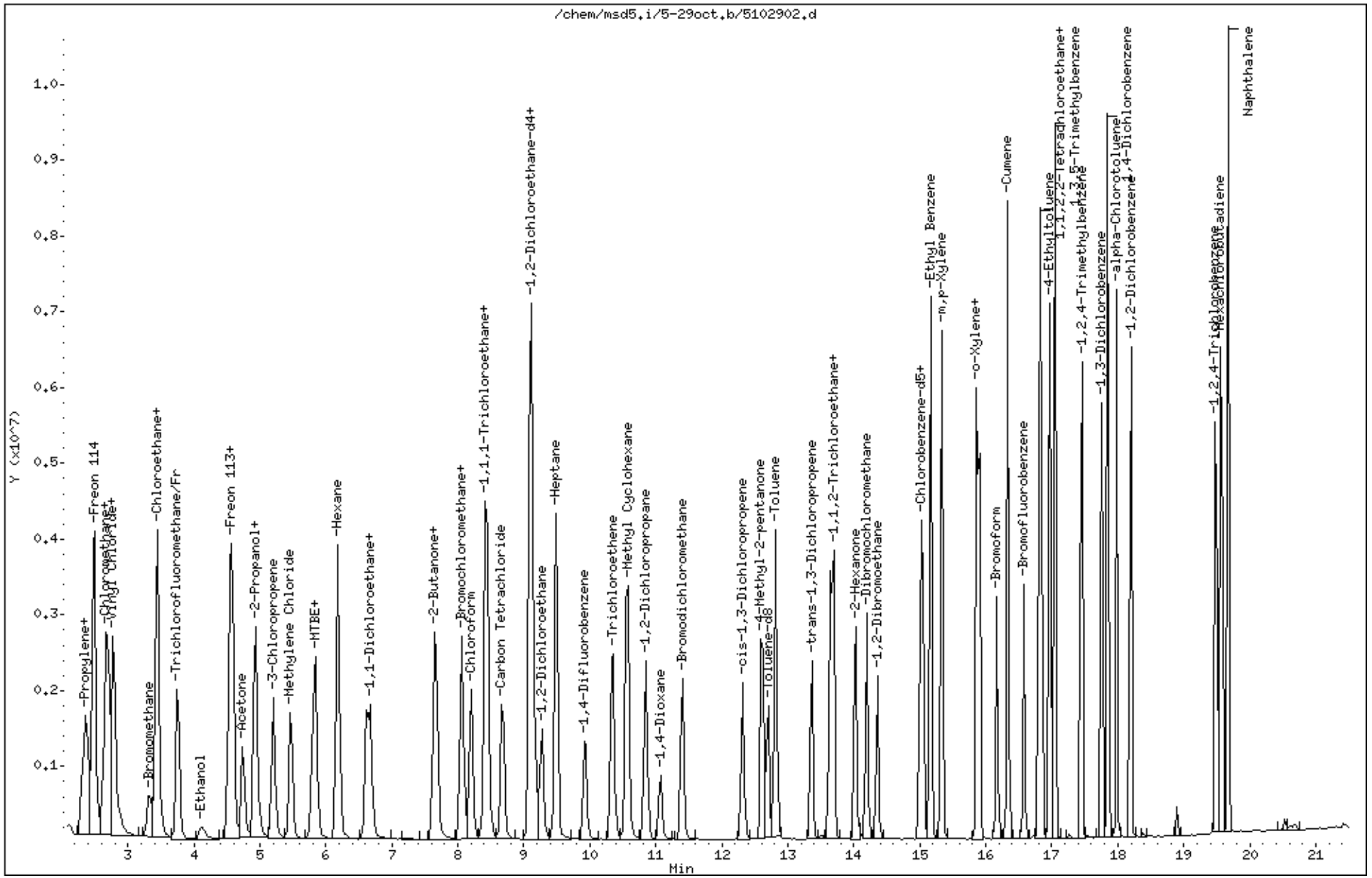
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0154

Data File: /chem/msd5.i/5-29oct.b/5102902.d
Date : 29-OCT-2007 09:06
Client ID: CCV-1
Sample Info: 50ml #1576-46

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0710475-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/07 09:34 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	105
Vinyl Chloride	98
Bromomethane	100
Chloroethane	100
Freon 11	107
1,1-Dichloroethene	123
Freon 113	115
Methylene Chloride	110
1,1-Dichloroethane	116
cis-1,2-Dichloroethene	118
Chloroform	114
1,1,1-Trichloroethane	121
Carbon Tetrachloride	120
Benzene	109
1,2-Dichloroethane	118
Trichloroethene	115
1,2-Dichloropropane	124
cis-1,3-Dichloropropene	129
Toluene	125
trans-1,3-Dichloropropene	130
1,1,2-Trichloroethane	116
Tetrachloroethene	109
1,2-Dibromoethane (EDB)	110
Chlorobenzene	104
Ethyl Benzene	112
m,p-Xylene	119
o-Xylene	115
Styrene	118
1,1,2,2-Tetrachloroethane	115
1,3,5-Trimethylbenzene	120
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	141 Q
1,2-Dichlorobenzene	102
1,3-Butadiene	98
Hexane	114
Cyclohexane	118

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0710475-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5102903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/29/07 09:34 AM**	

Compound	**%Recovery**
Heptane	120
Bromodichloromethane	122
Dibromochloromethane	115
Cumene	122
Propylbenzene	124
Chloromethane	92
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	92
Acetone	107
Carbon Disulfide	110
2-Propanol	110
trans-1,2-Dichloroethene	105
2-Butanone (Methyl Ethyl Ketone)	126
Tetrahydrofuran	103
1,4-Dioxane	119
4-Methyl-2-pentanone	132
2-Hexanone	118
Bromoform	114
4-Ethyltoluene	118
Ethanol	98
Methyl tert-butyl ether	134
3-Chloropropene	109
2,2,4-Trimethylpentane	122
Naphthalene	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	121	70-130

Report Date: 29-Oct-2007 09:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-29oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /var/chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 100ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	55.911	111.82	70-130
9 Freon 114	50.000	52.698	105.40	70-130
10 Chloromethane	50.000	45.922	91.84	70-130
13 Vinyl Chloride	50.000	49.124	98.25	70-130
12 1,3-Butadiene	50.000	49.133	98.27	60-140
15 Bromomethane	50.000	49.936	99.87	70-130
19 Chloroethane	50.000	50.168	100.34	70-130
20 Trichlorofluoromet	50.000	53.618	107.24	70-130
26 Ethanol	50.000	48.759	97.52	60-140
30 Freon 113	50.000	57.634	115.27	70-130
31 1,1-Dichloroethene	50.000	61.457	122.91	70-130
35 Carbon Disulfide	50.000	54.878	109.76	60-140
32 Acetone	50.000	53.456	106.91	60-140
36 2-Propanol	50.000	54.912	109.82	60-140
38 3-Chloropropene	50.000	54.366	108.73	60-140
43 Methylene Chloride	50.000	55.070	110.14	70-130
46 MTBE	50.000	66.992	133.98	60-140
47 trans-1,2-Dichloro	50.000	52.532	105.06	60-140
51 Hexane	50.000	56.904	113.81	60-140
55 1,1-Dichloroethane	50.000	58.026	116.05	70-130
66 cis-1,2-Dichloroet	50.000	58.953	117.91	70-130
67 2-Butanone	50.000	63.189	126.38	60-140
70 Tetrahydrofuran	50.000	51.644	103.29	60-140
72 Chloroform	50.000	57.059	114.12	70-130
74 Cyclohexane	50.000	58.948	117.90	60-140
75 1,1,1-Trichloroeth	50.000	60.324	120.65	70-130
56 Vinyl Acetate	50.000	59.825	119.65	60-140
77 Carbon Tetrachlori	50.000	59.762	119.52	70-130
80 2,2,4-Trimethylpen	50.000	61.037	122.07	60-140
81 Benzene	50.000	54.474	108.95	70-130
85 1,2-Dichloroethane	50.000	59.218	118.44	70-130
90 Heptane	50.000	60.254	120.51	60-140
93 Trichloroethene	50.000	57.681	115.36	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	62.075	124.15	70-130
99 1,4-Dioxane	50.000	59.340	118.68	60-140
100 Bromodichlorometha	50.000	61.102	122.20	60-140
103 cis-1,3-Dichloropr	50.000	64.389	128.78	70-130
106 4-Methyl-2-pentano	50.000	65.762	131.52	60-140
108 Toluene	50.000	62.445	124.89	70-130
113 trans-1,3-Dichloro	50.000	65.210	130.42*	70-130
114 1,1,2-Trichloroeth	50.000	58.113	116.23	70-130
116 Tetrachloroethene	50.000	54.709	109.42	70-130
119 2-Hexanone	50.000	59.267	118.53	60-140
120 Dibromochlorometha	50.000	57.644	115.29	60-140
122 1,2-Dibromoethane	50.000	54.912	109.82	70-130
126 Chlorobenzene	50.000	52.192	104.38	70-130
128 Ethyl Benzene	50.000	55.938	111.88	70-130
130 m,p-Xylene	50.000	59.430	118.86	70-130
132 o-Xylene	50.000	57.411	114.82	70-130
133 Styrene	50.000	58.924	117.85	70-130
134 Bromoform	50.000	57.115	114.23	60-140
136 Cumene	50.000	60.867	121.73	60-140
141 1,1,2,2-Tetrachlor	50.000	57.440	114.88	70-130
142 Propylbenzene	50.000	61.956	123.91	60-140
144 4-Ethyltoluene	50.000	59.240	118.48	60-140
147 1,3,5-Trimethylben	50.000	59.830	119.66	70-130
152 1,2,4-Trimethylben	50.000	56.263	112.53	70-130
155 1,3-Dichlorobenzen	50.000	51.654	103.31	70-130
156 1,4-Dichlorobenzen	50.000	54.148	108.30	70-130
157 alpha-Chlorotoluen	50.000	70.498	141.00*	70-130
159 1,2-Dichlorobenzen	50.000	50.786	101.57	70-130
163 1,2,4-Trichloroben	50.000	44.361	88.72	70-130
164 Hexachlorobutadien	50.000	46.231	92.46	70-130
6 Propylene	50.000	49.616	99.23	70-130
165 Naphthalene	50.000	49.228	98.46	60-140
11 Butane	50.000	48.410	96.82	70-130
17 Isopentane	50.000	47.583	95.17	70-130
94 Methyl Cyclohexane	50.000	60.384	120.77	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	26.239	104.96	70-130
$ 107 Toluene-d8	25.000	26.821	107.29	70-130
$ 138 Bromofluorobenzene	25.000	30.353	121.41	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29oct.b/5102903.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 29-OCT-2007 09:34
Operator : lmr Inst ID: msd5.i
Smp Info : 100ml #1443-350A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /var/chem/msd5.i/5-29oct.b/t14q1022a.m
Meth Date : 29-Oct-2007 09:21 lrandolp Quant Type: ISTD
Cal Date : 22-OCT-2007 20:23 Cal File: 5102218.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	479259	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	369961			48.50- 108.50	77.19
8.059	8.059 (1.000)	49	933673			157.98- 217.98	194.82
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1855974	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	319057			0.00- 46.44	17.19
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1499394	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	880165			27.52- 87.52	58.70
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	661257	26.2390	26.239	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	388224			32.76- 92.76	58.71
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1715346	26.8214	26.821	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	168921			0.00- 39.67	9.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	1166803			39.83- 99.83	68.02
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	821438	30.3534	30.353	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1374831			137.33- 197.33	167.37
16.575	16.575 (1.105)	176	808706			66.82- 126.82	98.45
6 Propylene					CAS #: 115-07-1		
2.280	2.308 (0.283)	41	1570429	49.6163	49.616	80.00- 120.00	100.00
2.280	2.308 (0.283)	42	1073109			37.02- 97.02	68.33
2.280	2.308 (0.283)	39	1134692			39.27- 99.27	72.25
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.363 (0.290)	85	3286724	55.9112	55.911	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	1046565			1.85- 61.85	31.84
9 Freon 114					CAS #: 76-14-2		
2.474	2.501 (0.307)	135	2584530	52.6980	52.698	80.00- 120.00	100.00
2.474	2.501 (0.307)	137	814807			2.15- 62.15	31.53
10 Chloromethane					CAS #: 74-87-3		
2.584	2.640 (0.321)	50	1856782	45.9223	45.922	80.00- 120.00	100.00
2.612	2.640 (0.324)	52	573785			0.66- 60.66	30.90
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.806 (0.345)	62	2046447	49.1244	49.124	80.00- 120.00	100.00
2.778	2.806 (0.345)	64	630160			1.49- 61.49	30.79
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.778 (0.341)	54	1657288	49.1333	49.133	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	1920736			80.68- 140.68	115.90
15 Bromomethane					CAS #: 74-83-9		
3.276	3.331 (0.406)	94	1313309	49.9359	49.936	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	1247688			61.37- 121.37	95.00
19 Chloroethane					CAS #: 75-00-3		
3.414	3.442 (0.424)	64	977081	50.1683	50.168	80.00- 120.00	100.00
3.414	3.442 (0.424)	49	254968			0.00- 55.08	26.09
3.414	3.442 (0.424)	66	297798			0.31- 60.31	30.48
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.746 (0.461)	101	3126589	53.6185	53.618	80.00- 120.00	100.00
3.718	3.746 (0.461)	103	2002850			33.95- 93.95	64.06

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.105 (0.506)	45	568028	48.7592	48.759	80.00- 120.00	100.00
4.077	4.133 (0.506)	43	108465			0.00- 50.67	19.10
4.077	4.105 (0.506)	46	238801			12.78- 72.78	42.04
30 Freon 113					CAS #: 76-13-1		
4.520	4.548 (0.561)	151	2143740	57.6344	57.634	80.00- 120.00	100.00
4.520	4.548 (0.561)	153	1362760			34.70- 94.70	63.57
4.520	4.548 (0.561)	101	3080471			109.86- 169.86	143.70
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	3034536	61.4572	61.457	80.00- 120.00	100.00
4.575	4.603 (0.568)	96	1704812			25.74- 85.74	56.18
4.575	4.603 (0.568)	98	1063325			6.03- 66.03	35.04
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	976105	53.4558	53.456	80.00- 120.00	100.00
4.713	4.741 (0.585)	43	2984836			265.30- 325.30	305.79
36 2-Propanol					CAS #: 67-63-0		
4.907	4.935 (0.609)	45	3230232	54.9115	54.912	80.00- 120.00	100.00
4.907	4.935 (0.609)	43	700827			0.00- 50.27	21.70
4.907	4.935 (0.609)	59	120192			0.00- 33.97	3.72
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	4898129	54.8780	54.878	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.211 (0.643)	76	790069	54.3660	54.366	80.00- 120.00	100.00
5.183	5.211 (0.643)	41	2706229			309.66- 369.66	342.53
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	2236128	55.0699	55.070	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	1486319			36.02- 96.02	66.47
5.432	5.460 (0.674)	51	699952			0.67- 60.67	31.30
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	1486578	66.9919	66.992	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	451721			0.00- 59.98	30.39
5.764	5.792 (0.715)	41	453651			1.50- 61.50	30.52
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.847 (0.722)	96	1740072	52.5315	52.532	80.00- 120.00	100.00
5.819	5.847 (0.722)	61	2828142			129.07- 189.07	162.53
5.819	5.847 (0.722)	98	1093843			32.80- 92.80	62.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.179 (0.763)	57	3498673	56.9038	56.904	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	2239482			35.47- 95.47	64.01
6.151	6.179 (0.763)	86	514066			0.00- 45.02	14.69
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.621 (0.818)	63	3317281	58.0262	58.026	80.00- 120.00	100.00
6.594	6.621 (0.818)	65	1019933			1.21- 61.21	30.75
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	821816	63.1888	63.189	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	3885758			443.32- 503.32	472.83
7.672	7.672 (0.952)	57	292625			6.67- 66.67	35.61
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.644 (0.945)	61	2359748	58.9529	58.953	80.00- 120.00	100.00
7.617	7.644 (0.945)	96	1638881			41.73- 101.73	69.45
7.617	7.644 (0.945)	98	1039807			14.35- 74.35	44.06
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.059 (0.997)	42	2332598	51.6445	51.644	80.00- 120.00	100.00
8.031	8.059 (0.997)	71	719222			0.28- 60.28	30.83
8.031	8.059 (0.997)	72	815045			2.66- 62.66	34.94
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2739392	57.0593	57.059	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1767269			34.26- 94.26	64.51
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.446 (1.045)	97	2577266	60.3236	60.324	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1634765			34.53- 94.53	63.43
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	2278595	58.9478	58.948	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	3321215			116.14- 176.14	145.76
8.391	8.418 (1.041)	41	1732441			47.10- 107.10	76.03
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.677 (0.825)	86	413457	59.8254	59.825	80.00- 120.00	100.00
6.649	6.677 (0.825)	43	4730861			1131.43-1191.43	1144.22
6.649	6.677 (0.825)	42	366430			53.66- 113.66	88.63
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2139402	59.7623	59.762	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2231309			74.27- 134.27	104.30

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	9672816	61.0370	61.037	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	3147541			2.64- 62.64	32.54
9.110	9.110 (1.130)	41	2317222			0.00- 54.38	23.96
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.916)	78	4829603	54.4744	54.474	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	1095112			0.00- 52.58	22.67
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1917160	59.2176	59.218	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	596237			2.06- 62.06	31.10
90 Heptane					CAS #: 142-82-5		
9.469	9.497 (0.955)	100	537893	60.2540	60.254	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	3701442			667.74- 727.74	688.14
9.469	9.497 (0.955)	71	1704035			275.65- 335.65	316.80
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1816442	57.6810	57.681	80.00- 120.00	100.00
10.326	10.354 (1.042)	130	1652830			64.17- 124.17	90.99
10.326	10.354 (1.042)	97	1153135			34.50- 94.50	63.48
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1775931	62.0753	62.075	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	1254322			41.02- 101.02	70.63
10.824	10.852 (1.092)	41	1064686			30.00- 90.00	59.95
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1034319	59.3403	59.340	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	913432			57.86- 117.86	88.31
11.073	11.073 (1.117)	57	267154			0.00- 57.18	25.83
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	2536737	61.1018	61.102	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1629625			33.94- 93.94	64.24
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1953213	64.3891	64.389	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	606318			1.24- 61.24	31.04
12.317	12.317 (1.243)	39	1164239			31.75- 91.75	59.61
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1508625	65.7617	65.762	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3982572			240.46- 300.46	263.99
12.594	12.621 (1.271)	85	540704			4.64- 64.64	35.84

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	4846884	62.4451	62.445	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	2831601			29.63- 89.63	58.42
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1836649	65.2105	65.210	80.00- 120.00	100.00(R)
13.368	13.368 (0.891)	77	585228			1.17- 61.17	31.86
13.368	13.368 (0.891)	39	1110683			31.14- 91.14	60.47
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1610373	58.1129	58.113	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	987338			31.91- 91.91	61.31
13.644	13.644 (0.910)	83	1351245			56.16- 116.16	83.91
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1720948	54.7087	54.709	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1397355			51.91- 111.91	81.20
13.699	13.699 (0.913)	131	1312215			48.40- 108.40	76.25
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.031 (0.934)	58	2006071	59.2666	59.267	80.00- 120.00	100.00
14.004	14.031 (0.934)	43	3875485			160.66- 220.66	193.19
14.031	14.031 (0.935)	100	339537			0.00- 45.77	16.93
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2158509	57.6442	57.644	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1672717			47.00- 107.00	77.49
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	2239462	54.9124	54.912	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	2078154			62.83- 122.83	92.80
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	3399295	52.1922	52.192	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	1114642			1.60- 61.60	32.79
15.027	15.027 (1.002)	77	2134910			31.42- 91.42	62.80
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1918740	55.9377	55.938	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	6372511			297.13- 357.13	332.12
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2423810	59.4296	59.430	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	5052063			180.05- 240.05	208.43
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2250783	57.4114	57.411	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	5015870			187.87- 247.87	222.85
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	3408254	58.9246	58.924	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1697062			19.69- 79.69	49.79
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1853081	57.1153	57.115	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	964469			21.71- 81.71	52.05
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3504613	57.4397	57.440	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	2237318			33.52- 93.52	63.84
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	6817899	59.2398	59.240	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	2044335			0.18- 60.18	29.98
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	6103955	59.8298	59.830	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2885043			17.81- 77.81	47.27
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4983417	56.2628	56.263	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	2360363			17.48- 77.48	47.36
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	3353494	51.6539	51.654	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	2118795			34.38- 94.38	63.18
17.764	17.764 (1.184)	111	1379272			11.02- 71.02	41.13
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3994495	54.1478	54.148	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2499544			32.14- 92.14	62.57
17.847	17.847 (1.190)	111	1696751			11.48- 71.48	42.48
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	6182409	70.4980	70.498	80.00- 120.00	100.00(R)
17.985	17.985 (1.199)	126	1138618			0.00- 49.19	18.42
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	3452783	50.7857	50.786	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	2177634			33.86- 93.86	63.07
18.206	18.206 (1.214)	111	1405751			9.76- 69.76	40.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	2036271	44.3608	44.361	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1946099			65.55- 125.55	95.57
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1459241	46.2314	46.231	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	907876			32.12- 92.12	62.22
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	8372751	61.9560	61.956	80.00- 120.00	100.00
16.824	16.852 (1.122)	120	1759643			0.00- 51.27	21.02
16.824	16.824 (1.122)	105	276714			0.00- 33.45	3.30
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	6876281	60.8672	60.867	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1811963			0.00- 56.71	26.35
16.326	16.326 (1.088)	51	859834			0.00- 43.17	12.50
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	7498368	49.2281	49.228	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	913995			0.00- 43.63	12.19
17 Isopentane					CAS #: 78-78-4		
3.414	3.442 (0.424)	43	2660710	47.5832	47.583	80.00- 120.00	100.00
3.414	3.442 (0.424)	57	1853069			37.45- 97.45	69.65
3.414	3.442 (0.424)	72	186836			0.00- 36.86	7.02
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	489526	48.4101	48.410	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	3310955			674.76- 734.76	676.36
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.575 (1.064)	83	2821539	60.3843	60.384	80.00- 120.00	100.00
10.547	10.575 (1.064)	98	1349715			19.70- 79.70	47.84
10.547	10.575 (1.064)	55	2855051			72.98- 132.98	101.19

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 29-Oct-2007 09:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5102903.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /var/chem/msd5.i/5-29oct.b/t14q1022a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 29-OCT-2007
Calibration Time: 09:06
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	630178	378107	882249	479259	-23.95
92 1,4-Difluorobenze	2424401	1454641	3394161	1855974	-23.45
125 Chlorobenzene-d5	1903929	1142357	2665501	1499394	-21.25

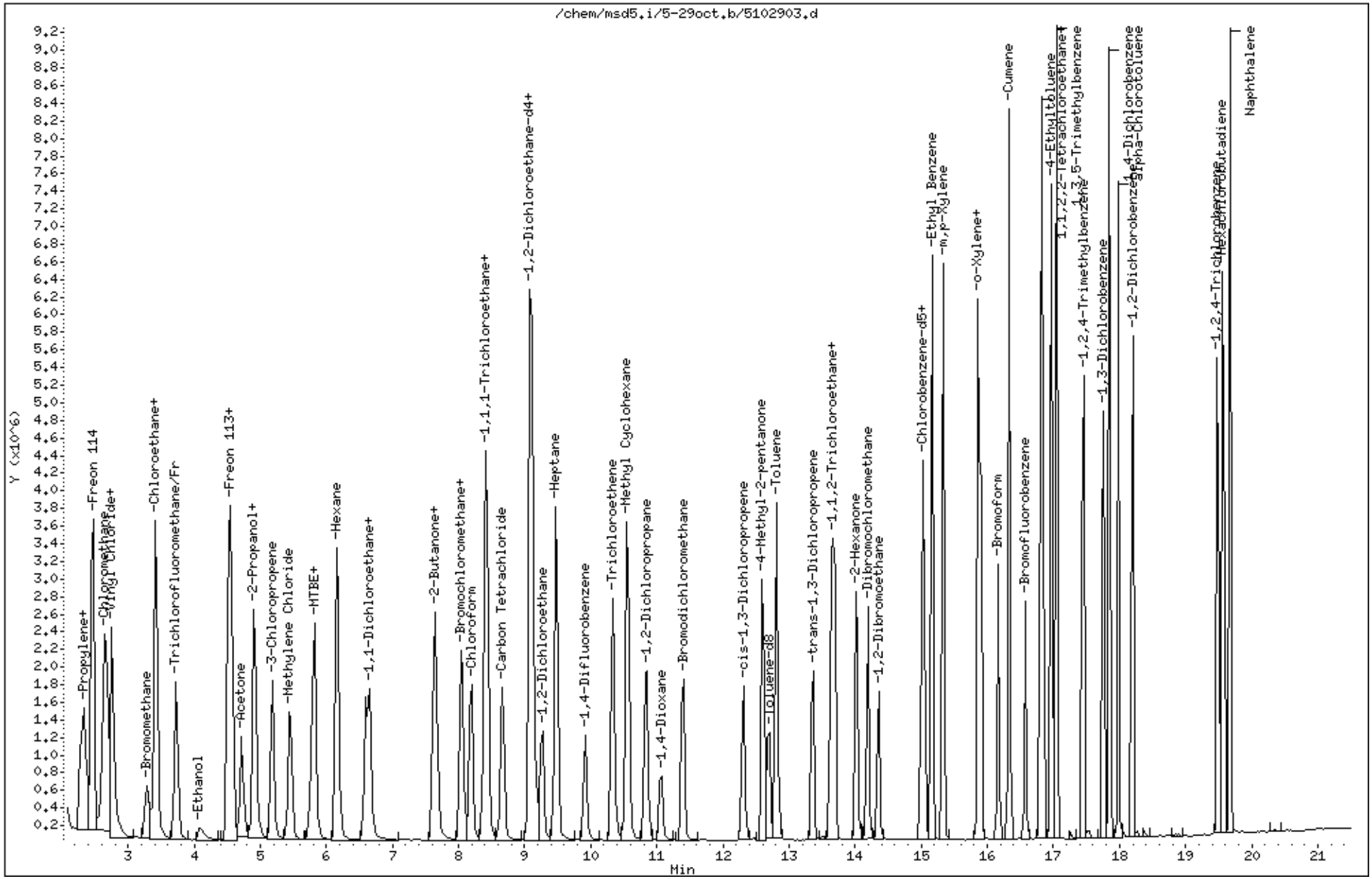
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/msd5.i/5-29oct.b/5102903.d
Date : 29-OCT-2007 09:34
Client ID: LCS-1
Sample Info: 100ml #1443-350A

Instrument: msd5.i
Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



@ Air Toxics Ltd.

MSD-5

Logbook #: 1586

0169

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.82
75	30.0 – 60.0% of mass 95	47.30
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.88
173	Less than 2.0% of mass 174	(0.58)[1]
174	Greater than 50.0% of mass 95	58.77
175	5.0 – 9.0% of mass 174	(6.99)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.67)[1]
177	5.0 – 9.0% of mass 176	(6.72)[2]

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

BFB Injection Date: 10/29/07
BFB Injection Time: 0833
BFB File ID: 5102901
Tekmar Purge Flow: 12.5 mL/min
Vacuum: 3.22×10^{-6}

IS/S Std.#: 1487-401	Exp. Date: 01/24/08
BCM 630178	
1,4-DFB 2424401	
CB-d5 1903929	

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

Verify 176/174 m/z Ratio: ~~3836416/4040704~~ UR 10/29/07
4020736/4202496 x100 = 95.67

NOAH Cart #: 11/10   File #: 5102907/5102908

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(2164906)}{(2424401)} \times \frac{(25)}{(0.86146)} = 25.914$

Reported Result 25.914

File ID: 5102902	
Compound: Tol-d8	
Initials: UR	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5102901	BFB Tune Check	1476-65	50ng	2µl	1.00	10/29/07	0833	UR	apex-1
2	✓	02	CCV-1 (200ppbv)	1576-46	500ppbv	50mL	↓	↓	0906	UR	
3	✓	03	LCS-1 (100ppbv)	1443-550A	↓	100mL			0934	UR	
4	X	04	Lab Blank	12941	humid	200mL			1038	UR	
5	✓	05	Lab Blank	↓	↓	↓			1127	UR	
6	X	06	Cart Cert #15, leg 6						1213	UR	
7	✓	07	Cart Cert #11, leg 6						1305	UR	
8	✓	08	Cart Cert #10, leg 4	↓	↓	↓	↓		1353	UR	
9	~~X~~ ✓	09	0710417A-01AA	33912	6.0"Hg → 5psi	0.3mL	1120		1436	UR	"E" flags exp-Wkae @ 2408
10	✓	↓ 10	-01A	↓	↓	0.2mL	1680	↓	1009	↓	

11	✓	5102911	0710654-01A	12712	45"Hg→5psi	20mL	1.58	10/29/07	1641	SS		
12	✓	12	0710533-01A	9472	60"Hg→15psi	↓	2.02		1713	SS	SS 10/29/07	
13	X	13	-01A	94924	5.0	80mL	6.05		1740	SS	RECOUNT 400	
14	✓	5102914	System Blank	129241	Humid	200mL	1.00		1841	SS		
15	✓	5102915	0710533-01A	94824	5.0"Hg-15psi	40mL	12.1		1919	SS		
16	✓	16	0710533 0710475-01A	3735	6.5"Hg-5psi	200mL	1.71		1951	SS		
17	✓	17	01A	25254	↓ ↓		1		2023	SS		
18	X	18	0710482-01A	2047	5.5"Hg-15psi		2.47		2055	SS	1,2-DCA >3500 ppb RSE 130mL	
19		19	0710512-01A	33976	5.5"Hg-5psi		1.87					
20		20	01AA	↓	↓ ↓	↓	↓					
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

0170

Comments:

Signature

10/29/07
Date

Air Toxics Ltd.

Data file : /chem/msd5.i/5-22oct.b/5102208.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 22-OCT-2007 13:58
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #1476-65;50 ng
Comment :
Method : /var/chem/msd5.i/5-22oct.b/bfb30.m
Meth Date : 22-Oct-2007 13:38 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 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	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.796	3.900	-0.104	95	2169514			100.00- 100.00	100.00
3.796	3.900	-0.104	50	554176			15.00- 40.00	25.54
3.796	3.900	-0.104	75	967804			30.00- 60.00	44.61
3.796	3.900	-0.104	96	134804			5.00- 9.00	6.21
3.796	3.900	-0.104	173	8584			0.00- 2.00	0.66
3.796	3.900	-0.104	174	1296285			50.00- 100.00	59.75
3.796	3.900	-0.104	175	95005			5.00- 9.00	7.33
3.796	3.900	-0.104	176	1247695			95.00- 101.00	96.25
3.796	3.900	-0.104	177	80112			5.00- 9.00	6.42

Data File: /chem/msd5.i/5-22oct.b/5102208.d

Date : 22-OCT-2007 13:58

Client ID: BFB

Instrument: msd5.i

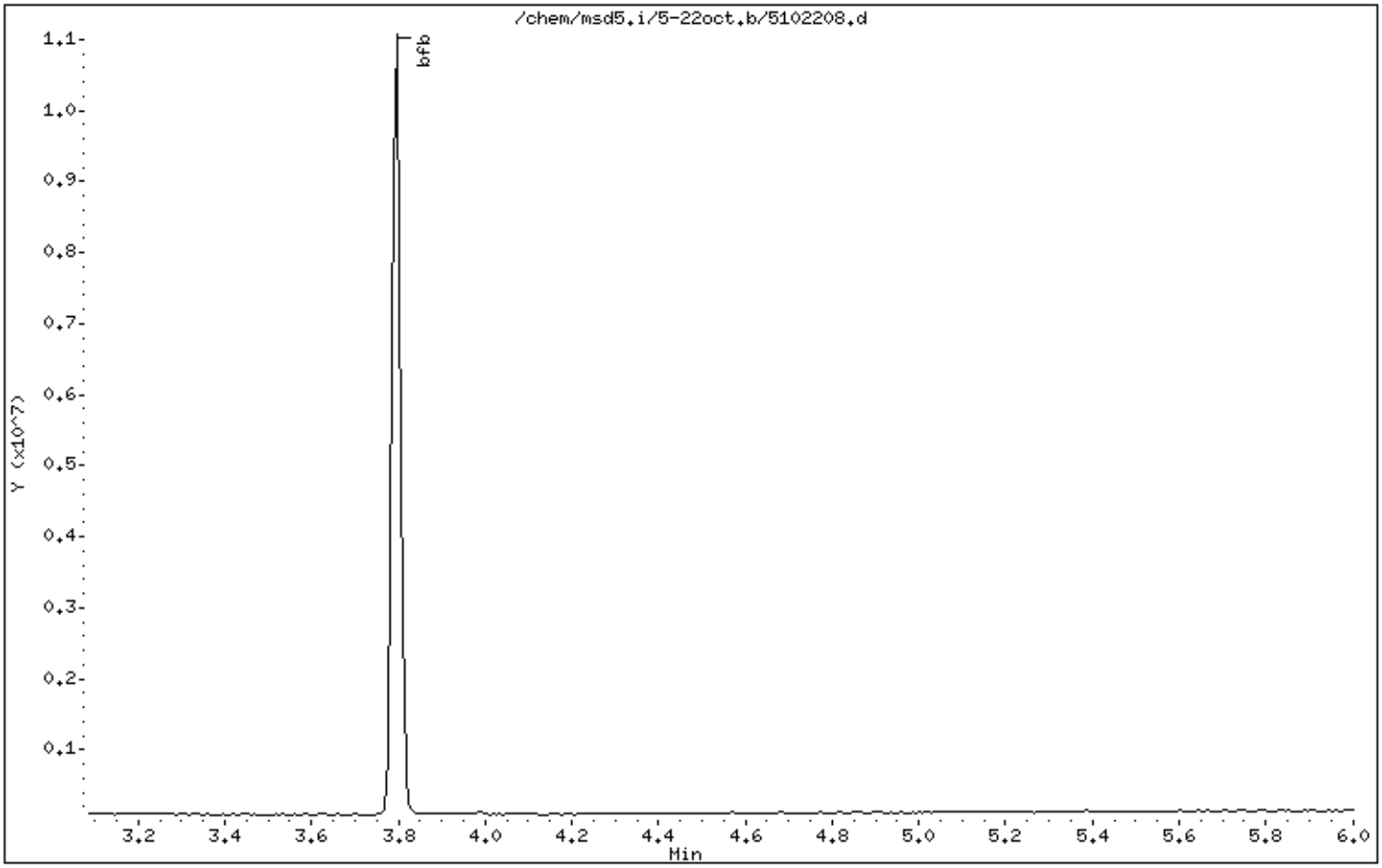
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-22oct.b/5102208.d

Date : 22-OCT-2007 13:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

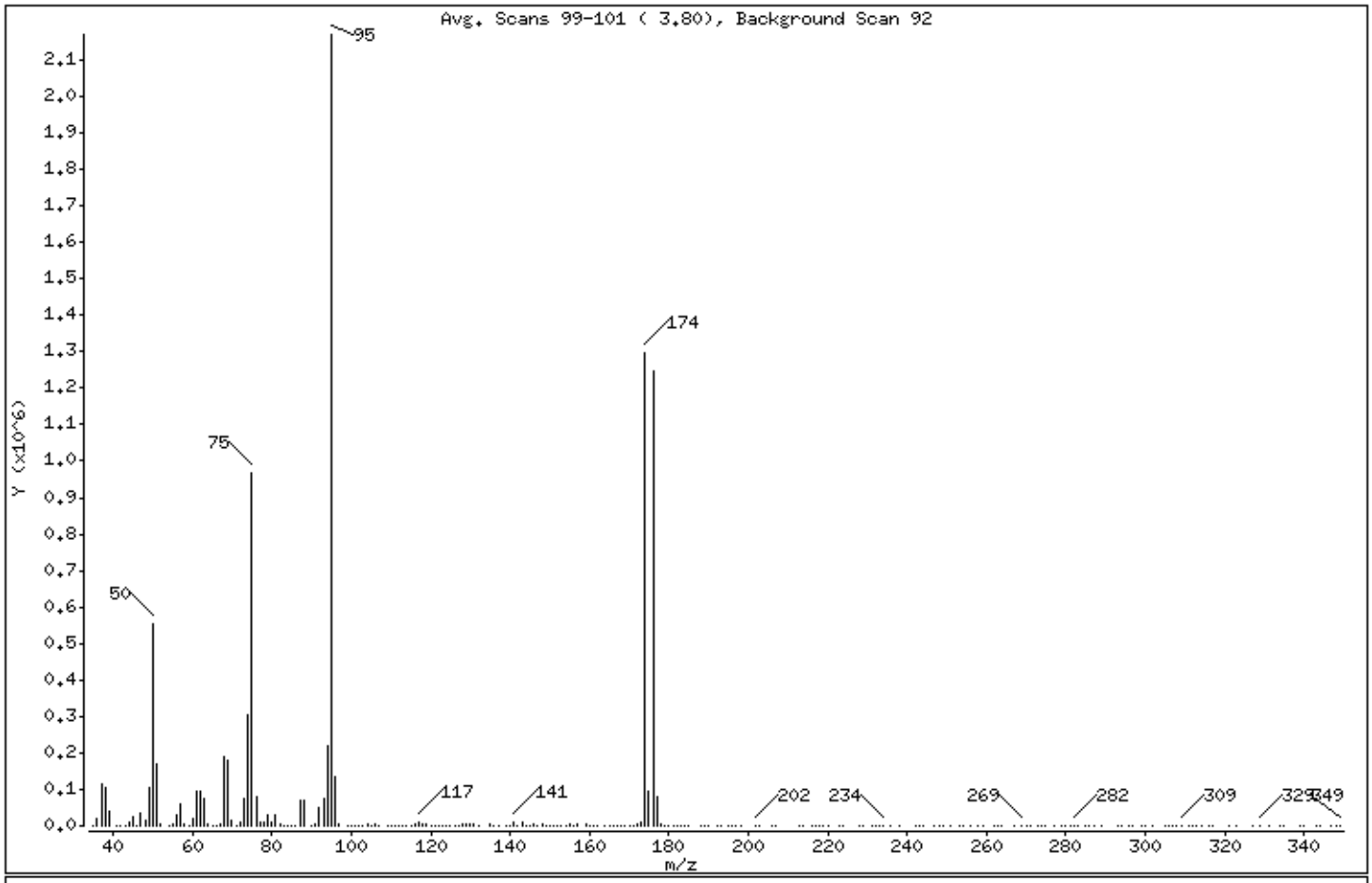
Volume Injected (uL): 1.0

Operator: lmr

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	25.54
75	30.00 - 60.00% of mass 95	44.61
96	5.00 - 9.00% of mass 95	6.21
173	Less than 2.00% of mass 174	0.40 (0.66)
174	50.00 - 100.00% of mass 95	59.75
175	5.00 - 9.00% of mass 174	4.38 (7.33)
176	95.00 - 101.00% of mass 174	57.51 (96.25)
177	5.00 - 9.00% of mass 176	3.69 (6.42)

Date : 22-OCT-2007 13:58

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5102208.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	308	97.00	3596	162.00	244	251.00	298
36.00	20176	99.00	26	164.00	175	253.00	246
37.00	115800	100.00	341	165.00	158	254.00	248
38.00	103160	101.00	111	166.00	439	256.00	65
39.00	39536	102.00	535	167.00	10	258.00	238
41.00	488	103.00	639	168.00	688	259.00	61
42.00	380	104.00	5358	169.00	768	262.00	106
43.00	990	105.00	2222	170.00	1021	263.00	110
44.00	9800	106.00	5725	171.00	285	264.00	437
45.00	24256	107.00	1849	172.00	2631	267.00	164
46.00	1705	109.00	20	173.00	8584	269.00	699
47.00	33264	110.00	946	174.00	1295872	270.00	498
48.00	14205	111.00	668	175.00	95000	271.00	338
49.00	102344	112.00	447	176.00	1247232	273.00	218
50.00	554176	113.00	1564	177.00	80112	274.00	66
51.00	167680	114.00	75	178.00	2494	275.00	468
52.00	6886	115.00	1512	179.00	300	277.00	216
54.00	493	116.00	3348	180.00	161	279.00	169
55.00	4325	117.00	7913	181.00	207	280.00	77
56.00	31072	118.00	4928	182.00	192	281.00	109
57.00	57720	119.00	6074	183.00	99	282.00	700
58.00	2992	120.00	587	184.00	178	283.00	227
59.00	1019	121.00	107	185.00	232	285.00	70
60.00	19352	122.00	745	188.00	412	286.00	325
61.00	95464	123.00	360	189.00	167	287.00	88
62.00	95216	124.00	293	190.00	126	289.00	136
63.00	73112	125.00	599	192.00	56	293.00	77
64.00	6840	126.00	685	193.00	417	294.00	456
65.00	1312	127.00	438	195.00	199	296.00	125
66.00	362	128.00	4790	196.00	86	297.00	424
67.00	4073	129.00	2528	197.00	180	299.00	258
68.00	187776	130.00	5222	198.00	255	300.00	101
69.00	181376	131.00	2791	202.00	466	302.00	243
70.00	13142	132.00	651	203.00	71	305.00	175
71.00	721	135.00	2868	206.00	105	306.00	16

Data File: /chem/msd5.i/5-22oct.b/5102208.d

Date : 22-OCT-2007 13:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5102208.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	8957	136.00	956	207.00	115	307.00	331
73.00	74600	137.00	2185	213.00	225	308.00	94
74.00	304320	139.00	634	214.00	53	309.00	451
75.00	967744	140.00	1167	216.00	74	311.00	88
76.00	81704	141.00	11684	217.00	112	312.00	229
77.00	8318	142.00	1354	218.00	153	313.00	122
78.00	7548	143.00	11470	219.00	211	314.00	104
79.00	30416	144.00	1114	220.00	256	316.00	153
80.00	7989	145.00	396	223.00	352	317.00	155
81.00	28760	146.00	3021	224.00	83	321.00	79
82.00	4873	147.00	750	228.00	156	323.00	78
83.00	719	148.00	3178	229.00	66	327.00	34
84.00	146	149.00	1092	231.00	161	329.00	209
85.00	150	150.00	1568	232.00	20	331.00	133
86.00	2085	151.00	585	233.00	66	334.00	151
87.00	70400	152.00	766	234.00	531	335.00	180
88.00	71440	153.00	1140	236.00	83	339.00	107
90.00	557	154.00	915	238.00	142	340.00	70
91.00	4647	155.00	3423	242.00	74	343.00	173
92.00	50824	156.00	351	243.00	208	344.00	104
93.00	76272	157.00	3189	244.00	51	347.00	168
94.00	221440	159.00	2697	247.00	141	348.00	57
95.00	2169344	160.00	261	248.00	186	349.00	37
96.00	134784	161.00	1723	249.00	119		

Air Toxics Ltd.

Data file : /chem/msd5.i/5-29oct.b/5102901.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 29-OCT-2007 08:33
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #1476-65;50 ng
Comment :
Method : /var/chem/msd5.i/5-29oct.b/bfb30.m
Meth Date : 29-Oct-2007 08:23 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 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	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.846	3.900	-0.054	95	7151104			100.00- 100.00	100.00
3.846	3.900	-0.054	50	1917952			15.00- 40.00	26.82
3.846	3.900	-0.054	75	3382272			30.00- 60.00	47.30
3.846	3.900	-0.054	96	492160			5.00- 9.00	6.88
3.846	3.900	-0.054	173	24304			0.00- 2.00	0.58
3.846	3.900	-0.054	174	4202496			50.00- 100.00	58.77
3.846	3.900	-0.054	175	293760			5.00- 9.00	6.99
3.846	3.900	-0.054	176	4020736			95.00- 101.00	95.67
3.846	3.900	-0.054	177	270016			5.00- 9.00	6.72

Data File: /chem/msd5.i/5-29oct.b/5102901.d

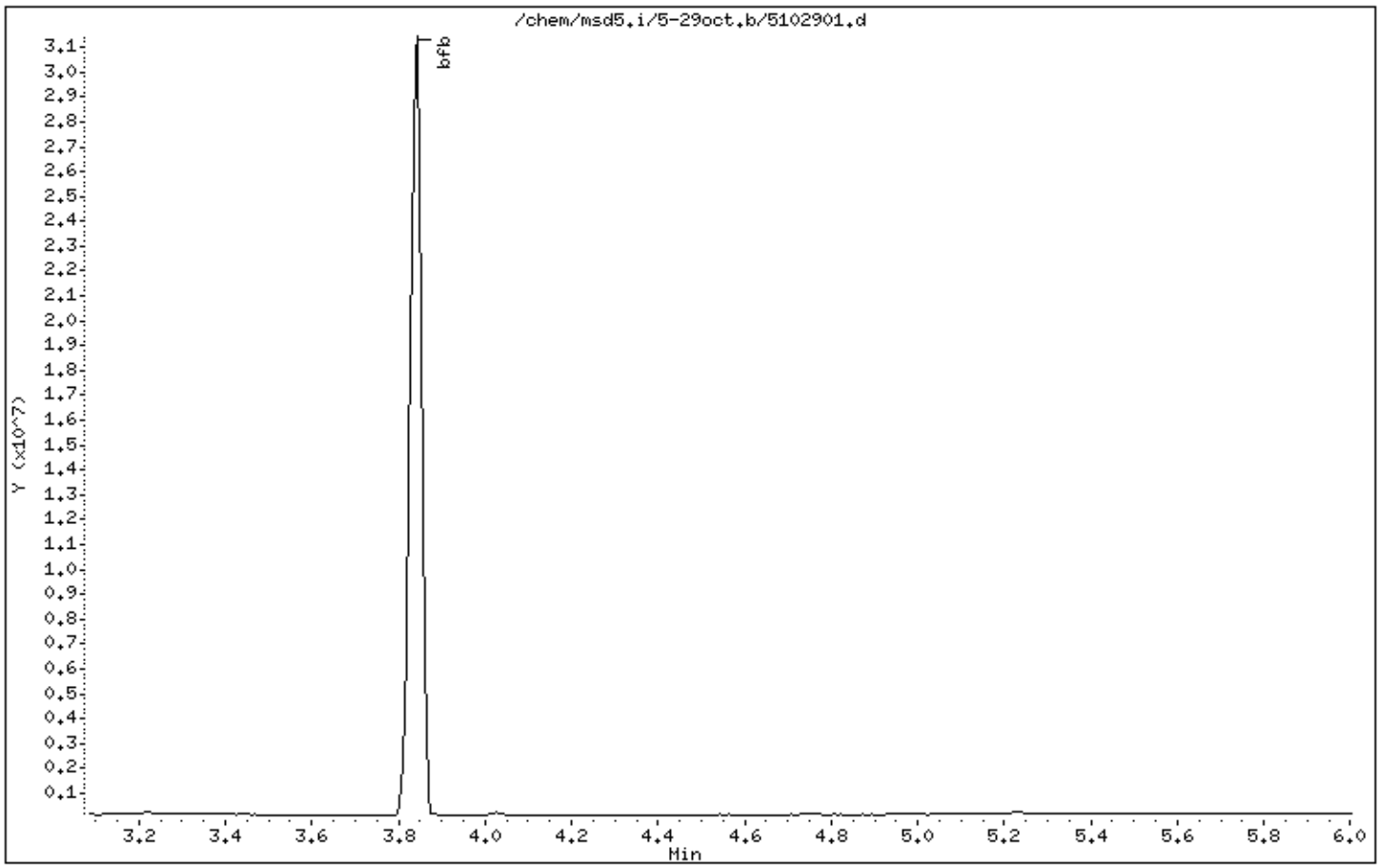
Date : 29-OCT-2007 08:33

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msd5.i/5-29oct.b/5102901.d

Date : 29-OCT-2007 08:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

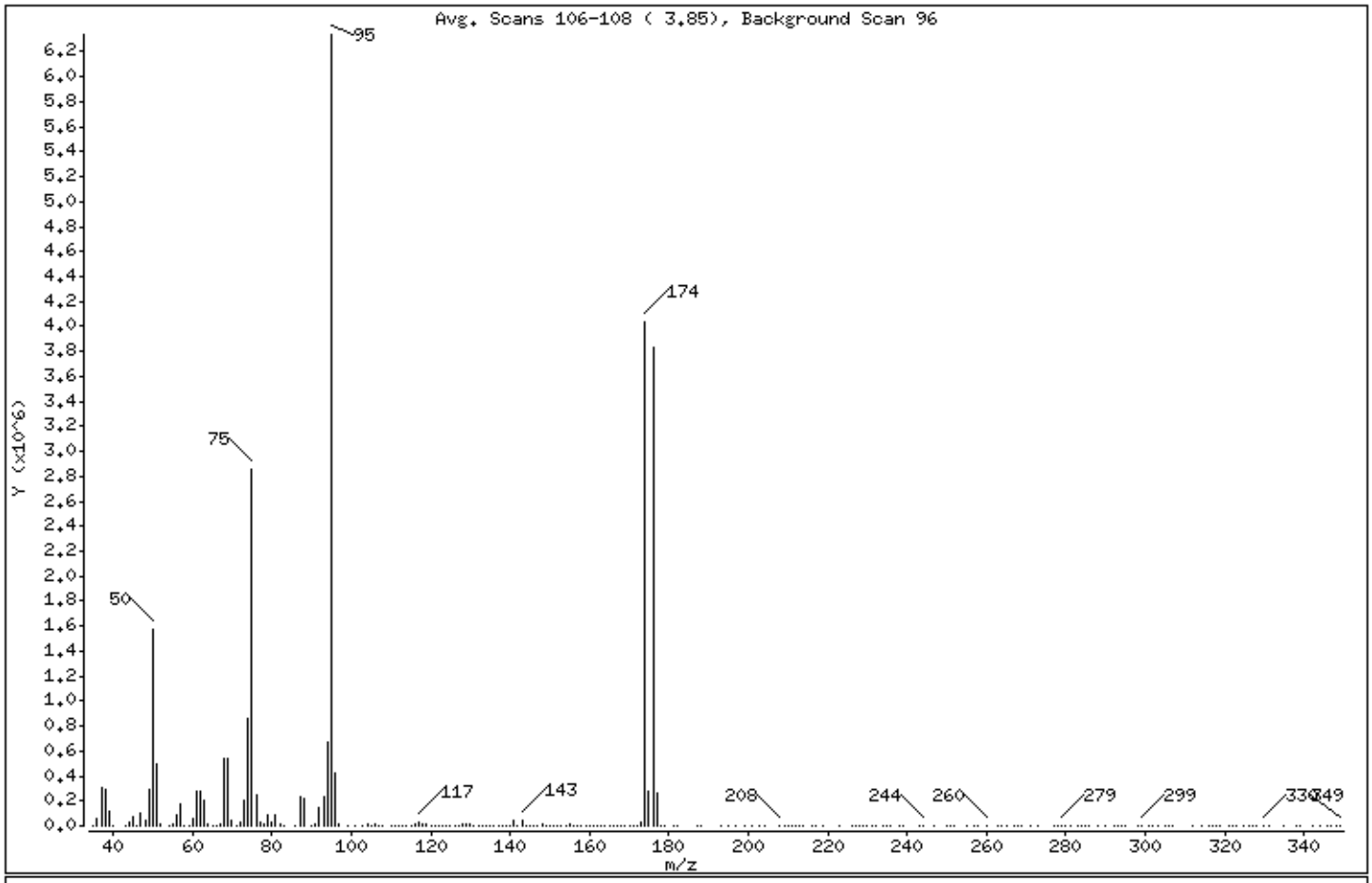
Volume Injected (uL): 1.0

Operator: lmr

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	26.82
75	30.00 - 60.00% of mass 95	47.30
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.34 (0.58)
174	50.00 - 100.00% of mass 95	58.77
175	5.00 - 9.00% of mass 174	4.11 (6.99)
176	95.00 - 101.00% of mass 174	56.23 (95.67)
177	5.00 - 9.00% of mass 176	3.78 (6.72)

Date : 29-OCT-2007 08:33

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5102901.d
Spectrum: Avg. Scans 106-108 (3.85), Background Scan 96
Location of Maximum: 95.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	402	103.00	2497	163.00	422	258.00	275
36.00	53056	104.00	16002	164.00	135	260.00	667
37.00	310720	105.00	4676	165.00	1005	263.00	361
38.00	297216	106.00	14372	166.00	318	264.00	163
39.00	118752	107.00	4182	167.00	1156	265.00	323
40.00	3045	108.00	117	168.00	1049	267.00	106
43.00	2658	110.00	1683	169.00	2288	268.00	372
44.00	28936	111.00	2485	170.00	4086	269.00	559
45.00	65856	112.00	1490	171.00	1879	271.00	51
46.00	3282	113.00	240	172.00	4640	273.00	112
47.00	106680	114.00	136	173.00	26416	277.00	55
48.00	45024	115.00	4257	174.00	4040704	278.00	276
49.00	297728	116.00	11785	175.00	283840	279.00	393
50.00	1568768	117.00	26280	176.00	3836416	280.00	288
51.00	488192	118.00	13779	177.00	256576	281.00	189
52.00	18048	119.00	19360	178.00	6742	283.00	147
54.00	1	120.00	1123	179.00	306	284.00	285
55.00	13994	121.00	292	181.00	354	285.00	130
56.00	93768	122.00	1451	182.00	167	286.00	135
57.00	178752	123.00	1166	187.00	102	288.00	77
58.00	6536	124.00	1542	188.00	201	290.00	261
59.00	162	125.00	1443	193.00	183	292.00	55
60.00	56208	126.00	2305	195.00	234	293.00	80
61.00	281920	127.00	1148	197.00	308	294.00	166
62.00	282816	128.00	15428	199.00	125	295.00	86
63.00	205248	129.00	7557	201.00	152	298.00	320
64.00	20448	130.00	17008	203.00	244	299.00	369
65.00	1122	131.00	6038	204.00	29	301.00	215
66.00	528	132.00	770	208.00	1619	302.00	94
67.00	13997	133.00	372	209.00	222	303.00	211
68.00	546112	134.00	379	210.00	394	305.00	227
69.00	533248	135.00	6808	211.00	119	306.00	152
70.00	38824	136.00	1272	212.00	184	307.00	297
71.00	1111	137.00	5272	213.00	192	312.00	131
72.00	24392	138.00	406	214.00	265	314.00	110

Data File: /chem/msd5.i/5-29oct.b/5102901.d

Date : 29-OCT-2007 08:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5102901.d
Spectrum: Avg. Scans 106-108 (3.85), Background Scan 96
Location of Maximum: 95.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	207552	139.00	721	216.00	267	316.00	126
74.00	862784	140.00	2840	217.00	191	317.00	60
75.00	2849792	141.00	38320	219.00	50	318.00	307
76.00	245184	142.00	4473	223.00	61	319.00	340
77.00	31000	143.00	38736	226.00	146	321.00	287
78.00	17936	144.00	2637	227.00	243	322.00	92
79.00	81640	145.00	3111	228.00	313	323.00	84
80.00	27728	146.00	5960	229.00	314	325.00	52
81.00	83720	147.00	1908	230.00	207	326.00	375
82.00	16324	148.00	9540	231.00	207	327.00	433
83.00	1197	149.00	2503	232.00	220	328.00	83
86.00	5944	150.00	4631	234.00	181	330.00	571
87.00	227200	151.00	908	235.00	107	331.00	66
88.00	220288	152.00	2236	236.00	74	335.00	218
90.00	515	153.00	3539	238.00	241	338.00	289
91.00	11729	154.00	2528	239.00	165	339.00	217
92.00	145216	155.00	13299	243.00	187	342.00	123
93.00	225856	156.00	1104	244.00	386	344.00	450
94.00	664064	157.00	6926	247.00	157	346.00	314
95.00	6338048	158.00	956	250.00	52	347.00	113
96.00	418432	159.00	4039	251.00	320	348.00	150
97.00	10069	160.00	412	252.00	353	349.00	172
99.00	243	161.00	5229	255.00	7		
101.00	519	162.00	502	257.00	202		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0710475
# of pages (Including Cover): 1

11/5/2007

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

0183

receipt VFR 10/18/07

Contact	
Company	GEI Consultants, Inc.
Address	455 Winding Brook Glastonbury CT 06033
Phone	860-368-5300 Cell:
Collected By: Signature:	Thomas R Tompkins

Project Info:

P.O. #

Project # 061140 - 8 - 1703

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

[X] Normal

[ ] Rush _____

Specify

Lab I.D.	Field Sample I.D. (Canister)	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UW AMS 5 TF ~~2439~~ 3735	10/19/07 0600/1400	TO-15 + Naphthalene	-29.5	-7.5	6.5 psig
02A	DW AMS 1 TF ~~1539~~ 25254	10/19/07 0600/1400	TO-15 + Naphthalene	-29.5	-8	6.5 psig

Relinquished By: (Signature) Date/Time: Thomas R Tompkins 10/17/07 1500

Received By: (Signature) Date/Time: [illegible] ATL 10/18/07 950

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time:

Notes: used flow controllers included

Initial and final can pressures in inches Hg\

Send Data Pack to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8629 1204 5613	MGT	NA	Good	Yes No (None)	0710475

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0710475

Client

Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 11/01/07
Date Completed: 10/31/07
Date Received: 10/18/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS 5	Modified TO-15	10/17/2007	6.5 "Hg	$225.00
02A	DW AMS 1	Modified TO-15	10/17/2007	6.5 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each.	$100.00
	Blue Body Flow Controller (2) @ $35.00 each.	$70.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bay Shore OU1 South Perimeter Air/9699

BILL TO: Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

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
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

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi + Initial Pressure (psi)}}$$

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 Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0710475

A	R	T	M	Q	
☑	☐	☐	☐	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☐	☐	☐	☐	The final report has the correct reporting list, special units, and header info.
	☐	☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☐	☐	☐	☐	Corrective Action issued - #
☑	☐	☐	☐	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / NO)***

☑	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	Hold time is met for all samples
	☐	☐	☐	☐	Appropriate data qualifier flags are applied
	☐	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☐	☐		☐	Samples analyzed within the project or method specific clock
	☐	☐			Retention times have been verified
☑	☐	☐		☐	Appropriate ICAL(s) included
	☐	☐	☐	☐	At least one result per sample is verified against the target quant sheets/raw data

☑	☑	☐	☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐		Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐		TICs resemble reference spectra
	☑	☐		TICs between duplicate samples are consistent
NA	☐	☐	☐	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☑			Special units for all samples in the final report are correctly calculated
	☐	☐	☐	Manually entered results checked (i.e. special CCV compounds)
	☐	☐	☐	TPH/NMOC (verify calculations and correct reference compound used)
	☑			Chain of Custody scanned correctly
			☐	Verify sample id's vs. chain of custody
☑	☑			Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☐	☑			Final pressure consistent with canister size (6L vs. 1L)
☐	☑			Verify receipt pressures against logbook and Target
☑	☑			Verify canister ID #'s
	☑		☐	Extra printed copies are provided per client profile
	☑		☐	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☐	☐	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: Out in CCV

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
10/29/07	R: NE 10/31/07	MB 10/31/07	
	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable