
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 #: 0802295

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	56
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	57	64
b. Surrogate Recover Summary Form (If Applicable)	65	65
c. Internal Standard Summary Form (If Applicable)	66	66
d. Duplicate Results Summary Sheet	67	68
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	69	187
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	188	202
i. Second Source LCS(Summary + Raw Data)	203	216
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	217	218
l. GC/MS Tune (Results + Raw Data)	219	228
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	229	230
b. Chain-of-Custody Records	231	231
c. Sample Log-In Sheet	232	232
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	233	235
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	236	237
g. Variance Table	--	--
h. Canister Certification	238	246
i. Data Review Check Sheet	247	247

Comments:

Completed by:

Kara McKiernan — Kara McKiernan / Document Control — 3/4/08

(Signature) (Print Name & Title) (Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0802295

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:	02/15/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	02/28/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW AMS 5	Modified TO-15	8.5 "Hg	5 psi
01AA	UW AMS 5 Lab Duplicate	Modified TO-15	8.5 "Hg	5 psi
02A	DW AMS 3	Modified TO-15	2.5 "Hg	5 psi
03A	XXAMS X	Modified TO-15	9.0 "Hg	5 psi
04A	TRIP BLANK	Modified TO-15	4.4 psi	4.4 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 02/29/08

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# 0802295

One 6 Liter Summa Canister and three 6 Liter Summa Canister (100% Certified) samples were received on February 15, 2008. 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 not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS 5	0802295-01A	2/13/2008	2/15/2008	NA	12	2/25/2008	NA	Good
UW AMS 5 Lab Duplicate	0802295-01AA	2/13/2008	2/15/2008	NA	12	2/25/2008	NA	Good
DW AMS 3	0802295-02A	2/13/2008	2/15/2008	NA	12	2/25/2008	NA	Good
XXAMS X	0802295-03A	2/13/2008	2/15/2008	NA	12	2/25/2008	NA	Good
TRIP BLANK	0802295-04A	NA	2/15/2008	NA	NA	2/25/2008	NA	Good
Lab Blank	0802295-05A	NA	NA	NA	NA	2/25/2008	NA	Good
CCV	0802295-06A	NA	NA	NA	NA	2/25/2008	NA	Good
LCS	0802295-07A	NA	NA	NA	NA	2/25/2008	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#: 0802295-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.94	1.5	4.3	6.9
Carbon Disulfide	0.94	0.93 J	2.9	2.9

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0802295-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022513**	**Date of Collection:**	**2/13/08**
Dil. Factor:	**1.87**	**Date of Analysis:**	**2/25/08 08:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	Not Detected	4.6	Not Detected
Freon 114	0.94	Not Detected	6.5	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
Methylene Chloride	0.94	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
Toluene	0.94	Not Detected	3.5	Not Detected
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	1.5	4.3	6.9
Ethyl Benzene	0.94	Not Detected	4.0	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0802295-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022513**	**Date of Collection: 2/13/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 2/25/08 08:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.94	Not Detected	3.8	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
Chloromethane	3.7	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	28	Not Detected
Hexachlorobutadiene	3.7	Not Detected	40	Not Detected
Acetone	3.7	Not Detected	8.9	Not Detected
Carbon Disulfide	0.94	0.93 J	2.9	2.9
2-Propanol	3.7	Not Detected	9.2	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
Ethanol	3.7	Not Detected	7.0	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
3-Chloropropene	3.7	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Naphthalene	3.7	Not Detected	20	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022513.d
Lab Smp Id: 0802295-01A
Inj Date : 25-FEB-2008 20:08
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #33775
Misc Info : 8.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 13:21 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.87000
Integrator: HP RTE Compound Sublist: AT08.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	377661	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	291358			45.17- 105.17	77.15
8.059	8.059 (1.000)	49	878873			184.09- 244.09	232.71
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1378660	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	231726			0.00- 45.36	16.81
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	964260	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	586118			0.00- 30.00	60.78
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	600271	20.9163	20.916	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	272508			19.51- 79.51	45.40
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1256100	24.8470	24.847	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	139683			0.00- 41.02	11.12

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	838863			39.73- 99.73	66.78
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	636574	25.3750	25.375	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	891664			110.96- 170.96	140.07
16.575	16.575 (1.105)	176	613581			64.94- 124.94	96.39
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.907 (0.612)	76	27799	0.49974	0.9345	80.00- 120.00	100.00(a)
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	38759	0.80233	1.500	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	12736			2.41- 62.41	32.86
15.027	15.027 (1.002)	77	30805			29.85- 89.85	79.48

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: 5022513.d
Lab Smp Id: 0802295-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 8.5"Hg --> 5psi GEI

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	377661	-7.69
92 1,4-Difluorobenze	1482847	889708	2075986	1378660	-7.03
125 Chlorobenzene-d5	1050862	630517	1471207	964260	-8.24

		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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802295-01A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 8.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.916	83.67	70-130
$ 107 Toluene-d8	25.000	24.847	99.39	70-130
$ 138 Bromofluorobenzene	25.000	25.375	101.50	70-130

Data File: /chem/msd5.i/5-25feb.b/5022513.d

Date : 25-FEB-2008 20:08

Client ID:

Sample Info: 200mL #33775

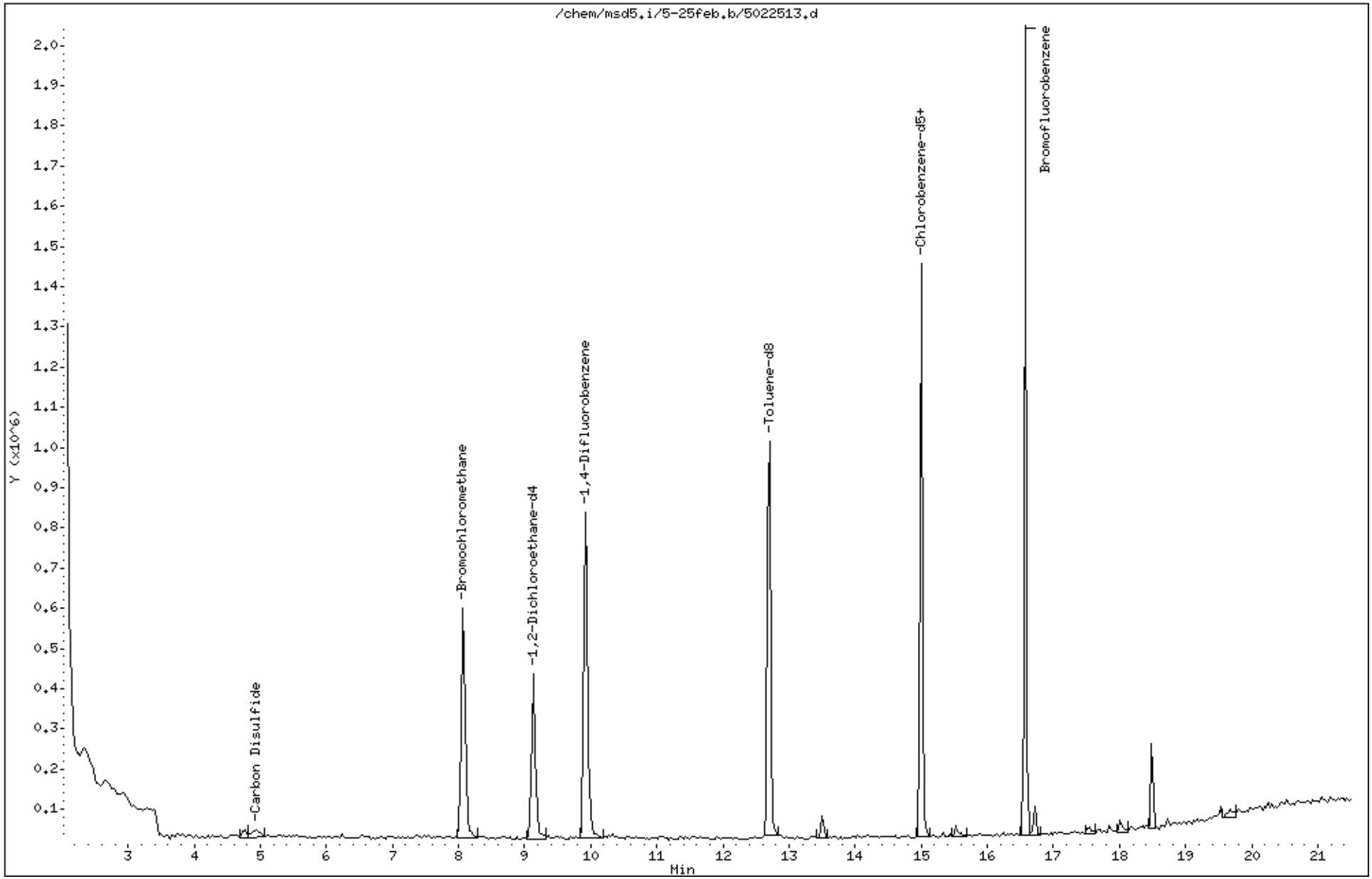
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0013



Data File: /chem/msd5.i/5-25feb.b/5022513.d

Date : 25-FEB-2008 20:08

Client ID:

Instrument: msd5.i

Sample Info: 200mL #33775

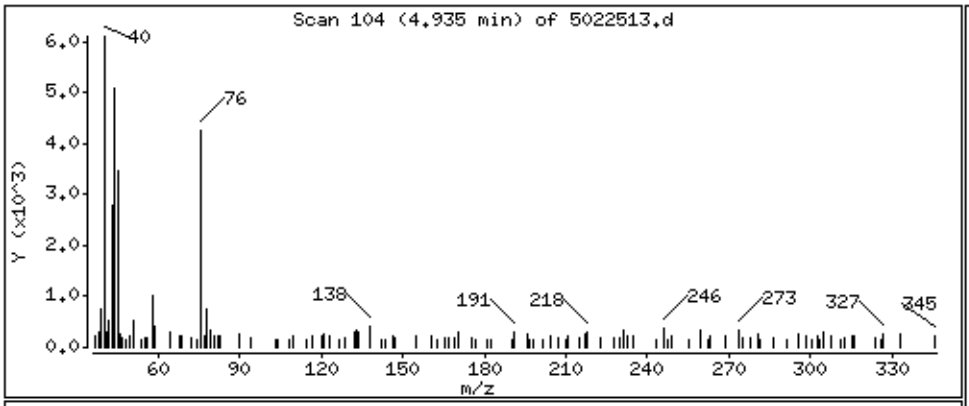
Operator: cb

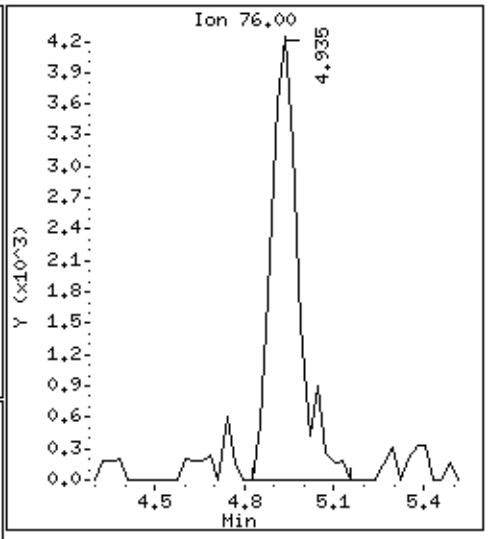
Column phase: RTx-624

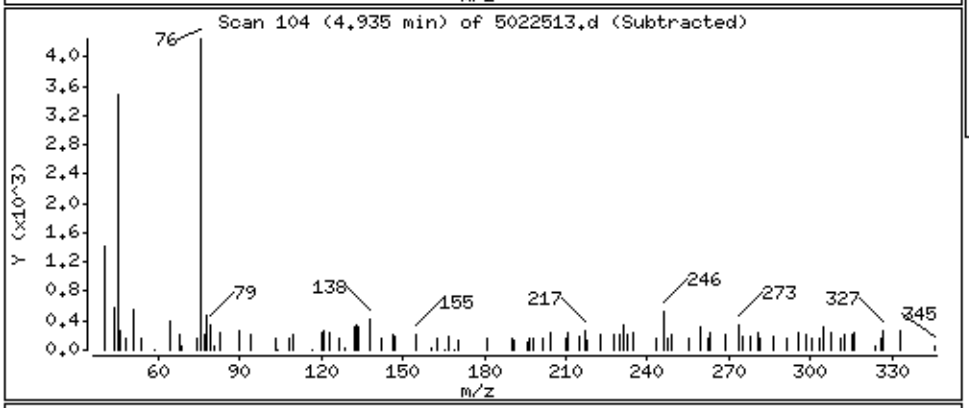
Column diameter: 0.53

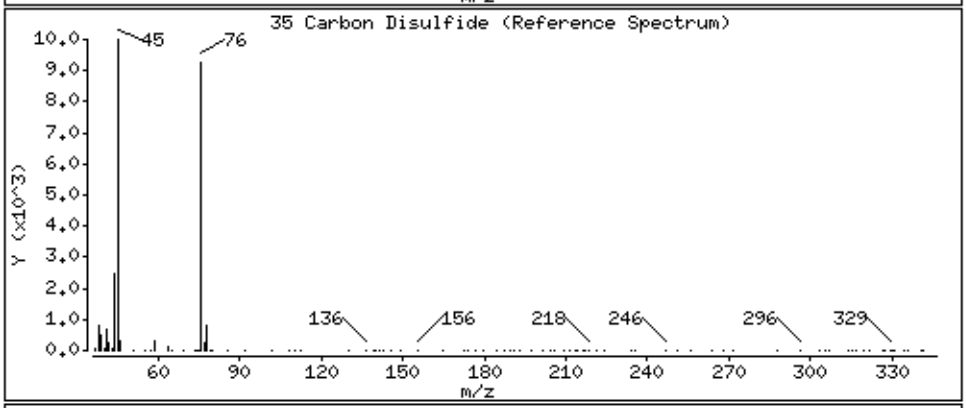
35 Carbon Disulfide

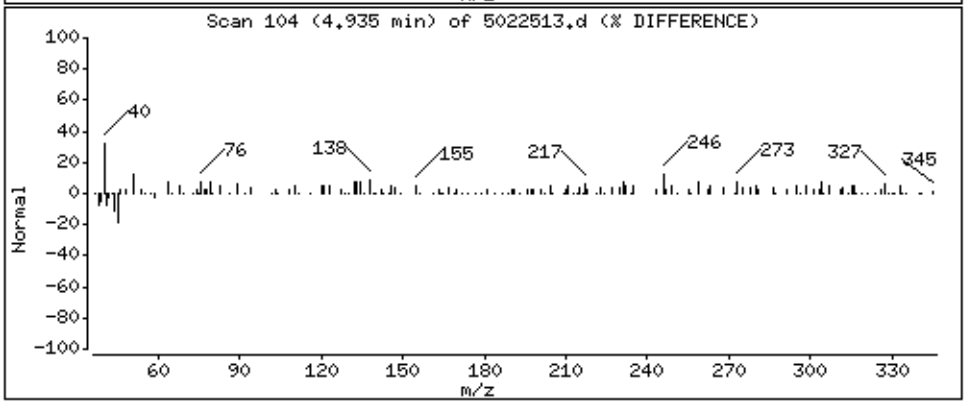
Concentration: 0.9345 PPBV











Data File: /chem/msd5.i/5-25feb.b/5022513.d

Date : 25-FEB-2008 20:08

Client ID:

Instrument: msd5.i

Sample Info: 200mL #33775

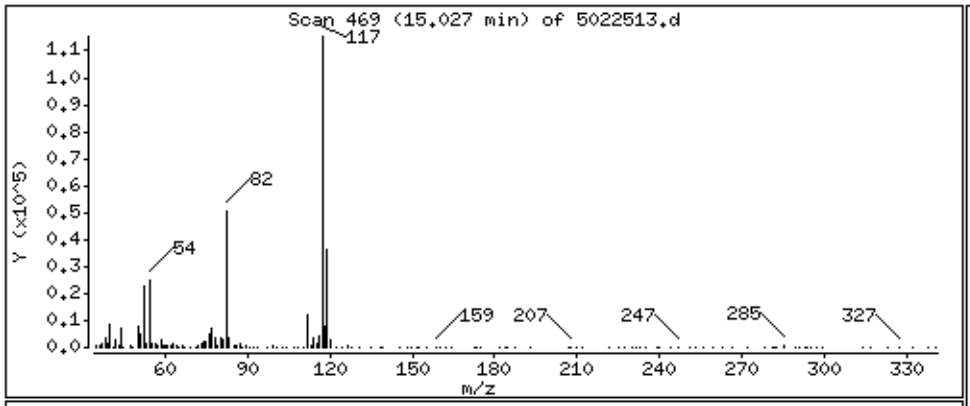
Operator: cb

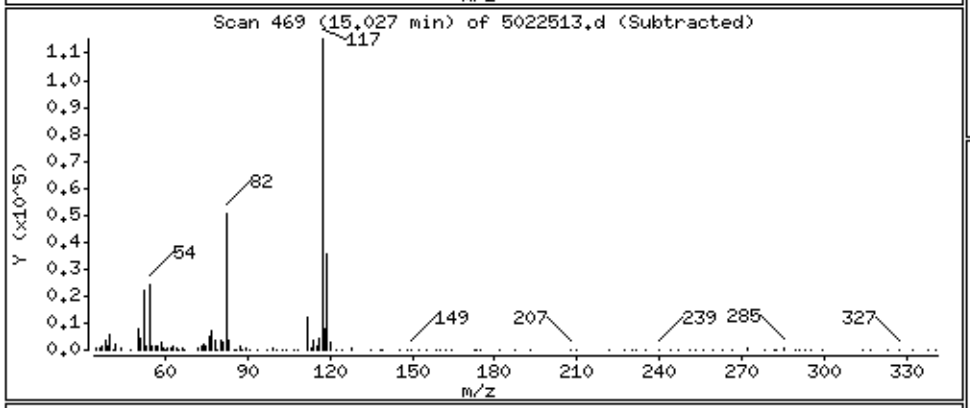
Column phase: RTx-624

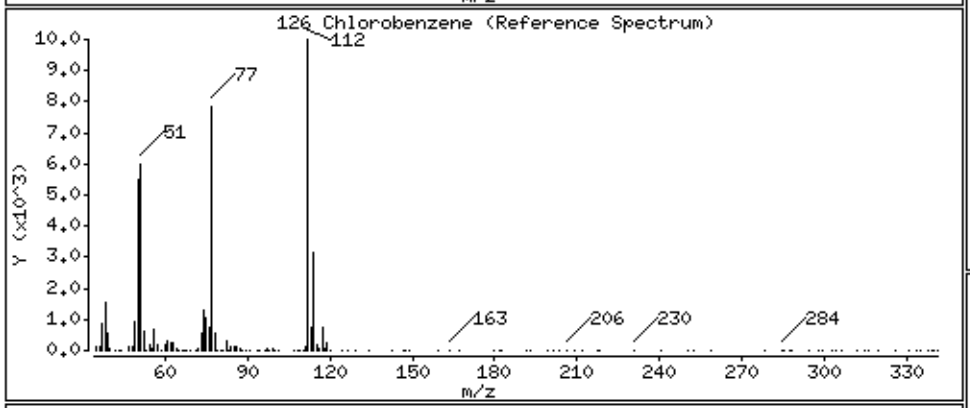
Column diameter: 0.53

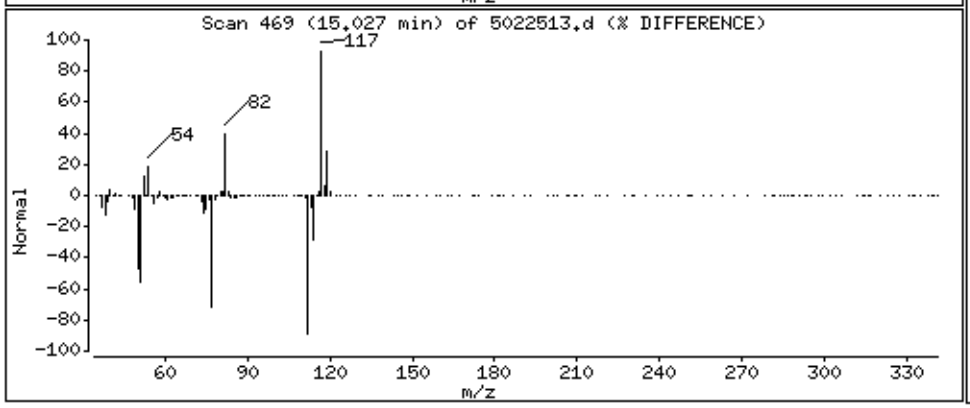
126 Chlorobenzene

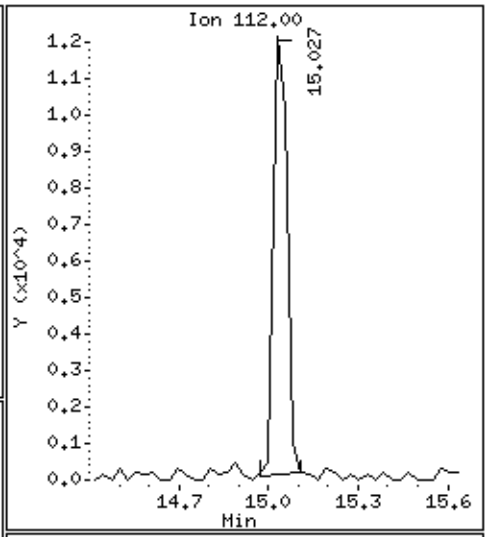
Concentration: 1.500 PPBV

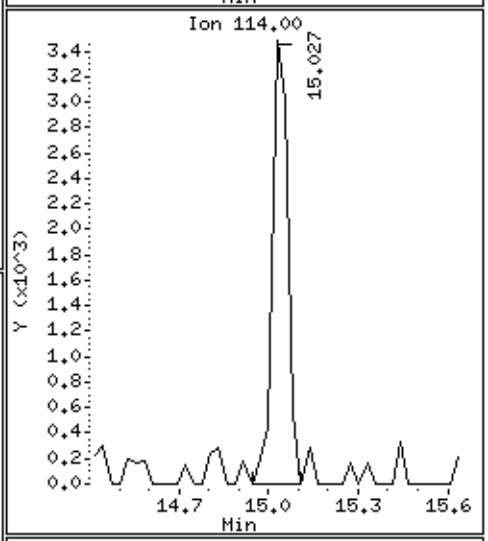


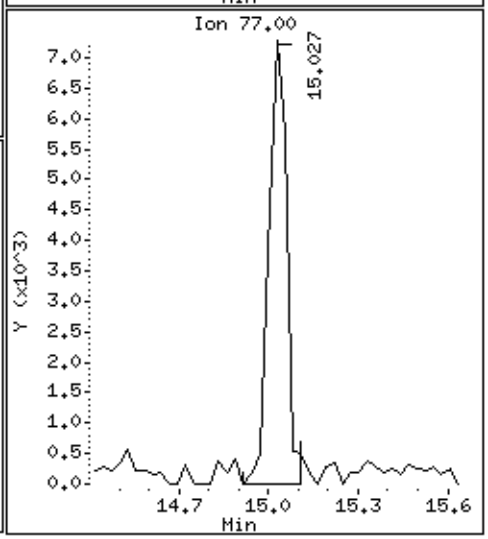












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5 Lab Duplicate

Lab ID#: 0802295-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chlorobenzene	0.94	1.5	4.3	7.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5 Lab Duplicate

Lab ID#: 0802295-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022514**	**Date of Collection:**	**2/13/08**
Dil. Factor:	**1.87**	**Date of Analysis:**	**2/25/08 08:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	Not Detected	4.6	Not Detected
Freon 114	0.94	Not Detected	6.5	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
Methylene Chloride	0.94	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
Toluene	0.94	Not Detected	3.5	Not Detected
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	1.5	4.3	7.0
Ethyl Benzene	0.94	Not Detected	4.0	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5 Lab Duplicate

Lab ID#: 0802295-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022514**	**Date of Collection: 2/13/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 2/25/08 08:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.94	Not Detected	3.8	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
Chloromethane	3.7	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	28	Not Detected
Hexachlorobutadiene	3.7	Not Detected	40	Not Detected
Acetone	3.7	Not Detected	8.9	Not Detected
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
2-Propanol	3.7	Not Detected	9.2	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
Ethanol	3.7	Not Detected	7.0	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
3-Chloropropene	3.7	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Naphthalene	3.7	Not Detected	20	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022514.d
Lab Smp Id: 0802295-01AA
Inj Date : 25-FEB-2008 20:41
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #33775
Misc Info : 8.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 13:21 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.87000
Integrator: HP RTE Compound Sublist: AT08.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	372980	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	290222			45.17- 105.17	77.81
8.059	8.059 (1.000)	49	874180			184.09- 244.09	234.38
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1391934	25.0000		80.00- 120.00	100.00
9.911	9.912 (1.000)	88	237918			0.00- 45.36	17.09
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	972746	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	603696			0.00- 30.00	62.06
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	599904	21.1658	21.166	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	295675			19.51- 79.51	49.29
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1256092	24.6099	24.610	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	136442			0.00- 41.02	10.86

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	848500			39.73- 99.73	67.55
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	615347	24.3149	24.315	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	878334			110.96- 170.96	142.74
16.575	16.575 (1.105)	176	600606			64.94- 124.94	97.60
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	39500	0.81054	1.516	80.00- 120.00	100.00
15.054	15.027 (1.004)	114	12850			2.41- 62.41	32.53
15.027	15.027 (1.002)	77	31351			29.85- 89.85	79.37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022514.d
Lab Smp Id: 0802295-01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 8.5"Hg --> 5psi GEI

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	372980	-8.84
92 1,4-Difluorobenze	1482847	889708	2075986	1391934	-6.13
125 Chlorobenzene-d5	1050862	630517	1471207	972746	-7.43

		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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802295-01AA
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 8.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.166	84.66	70-130
$ 107 Toluene-d8	25.000	24.610	98.44	70-130
$ 138 Bromofluorobenzene	25.000	24.315	97.26	70-130

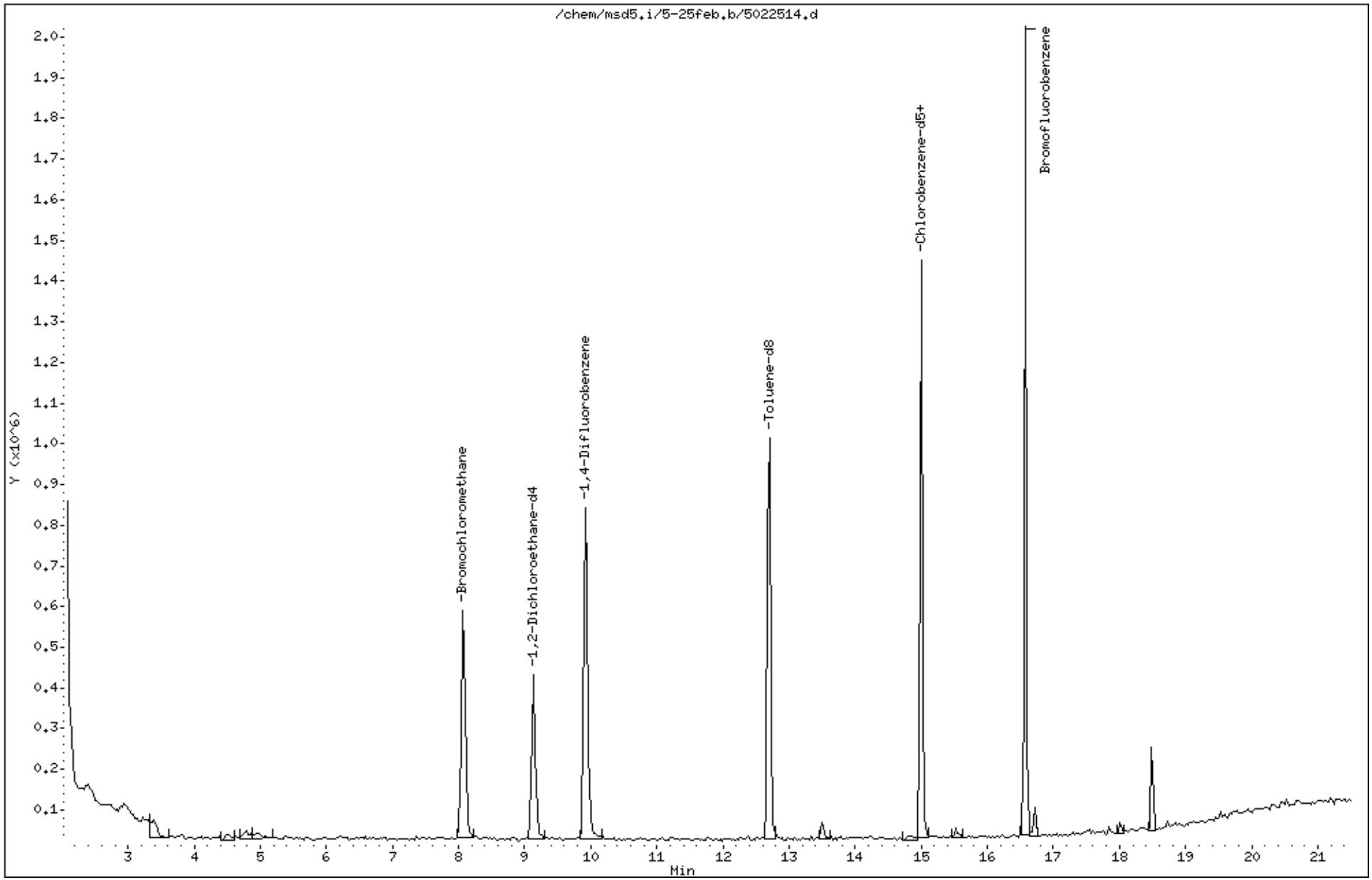
0023

Data File: /chem/msd5.i/5-25feb.b/5022514.d
Date : 25-FEB-2008 20:41
Client ID:
Sample Info: 200mL #33775

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-25feb.b/5022514.d

Date : 25-FEB-2008 20:41

Client ID:

Instrument: msd5.i

Sample Info: 200mL #33775

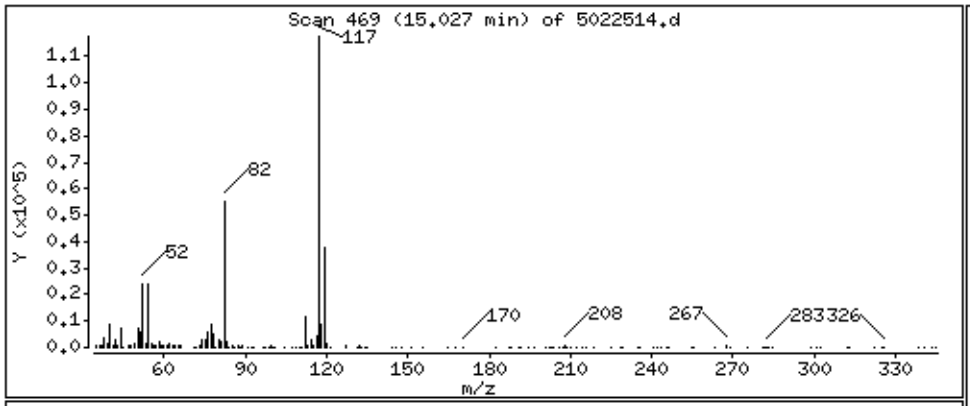
Operator: cb

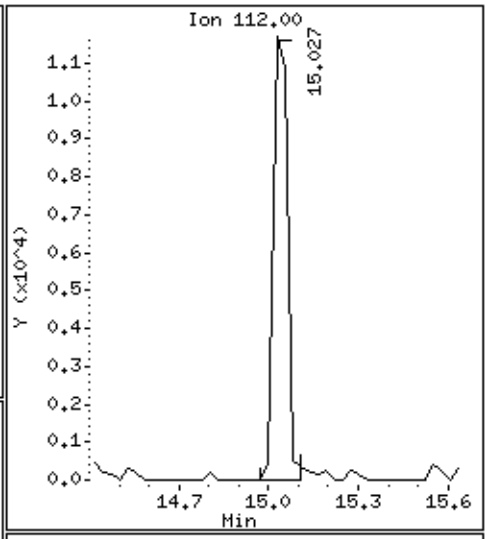
Column phase: RTx-624

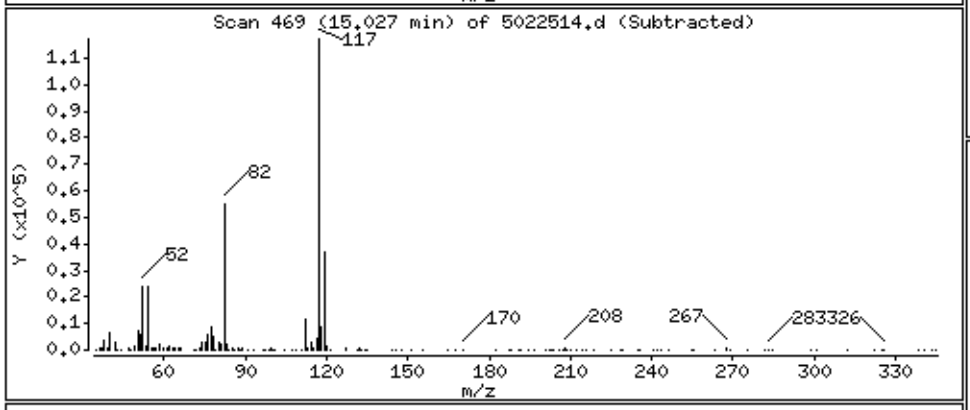
Column diameter: 0.53

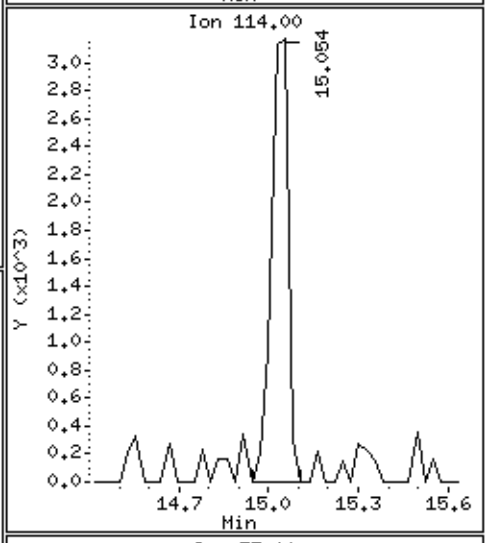
126 Chlorobenzene

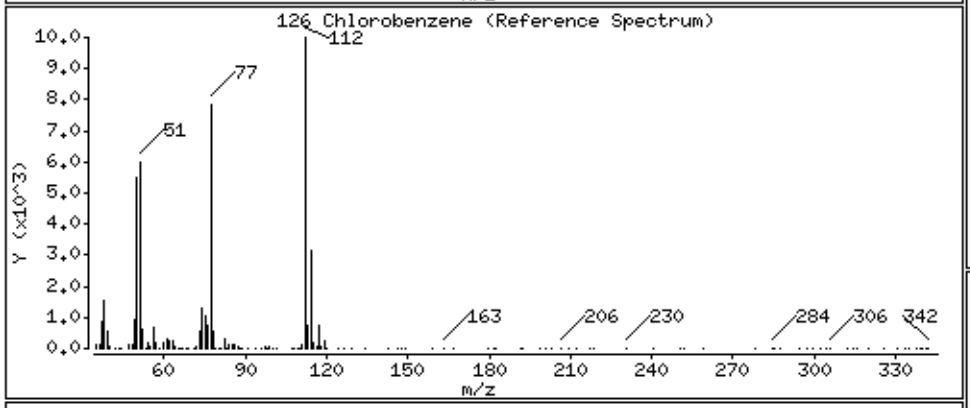
Concentration: 1.516 PPBV

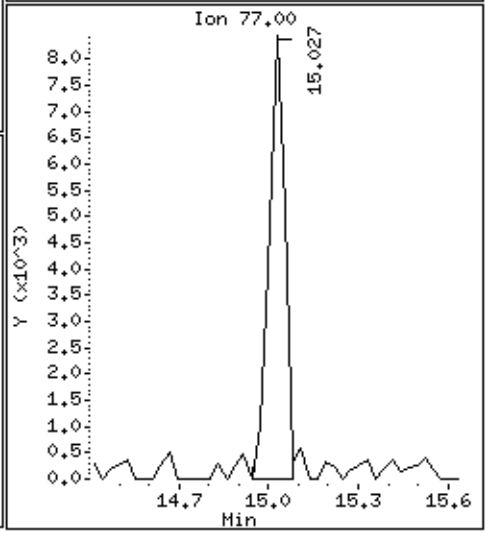


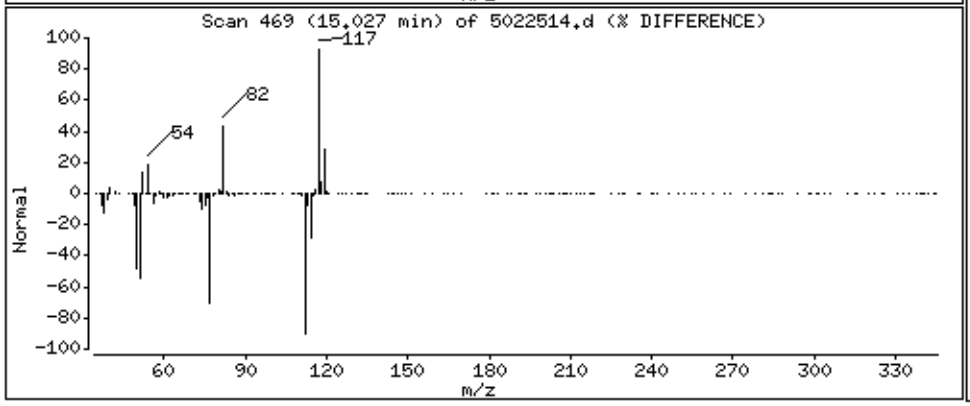












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0802295-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.73	1.9	2.8	7.3
m,p-Xylene	0.73	1.2	3.2	5.3
1,2,4-Trimethylbenzene	0.73	1.4	3.6	6.9
Acetone	2.9	3.6	6.9	8.5
Carbon Disulfide	0.73	1.3	2.3	4.2
Ethanol	2.9	3.4	5.5	6.5

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0802295-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022515**	**Date of Collection:**	**2/13/08**
Dil. Factor:	**1.46**	**Date of Analysis:**	**2/25/08 09:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	Not Detected	3.6	Not Detected
Freon 114	0.73	Not Detected	5.1	Not Detected
Vinyl Chloride	0.73	Not Detected	1.9	Not Detected
Bromomethane	0.73	Not Detected	2.8	Not Detected
Chloroethane	0.73	Not Detected	1.9	Not Detected
Freon 11	0.73	Not Detected	4.1	Not Detected
1,1-Dichloroethene	0.73	Not Detected	2.9	Not Detected
Freon 113	0.73	Not Detected	5.6	Not Detected
Methylene Chloride	0.73	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.73	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
Chloroform	0.73	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Carbon Tetrachloride	0.73	Not Detected	4.6	Not Detected
Benzene	0.73	Not Detected	2.3	Not Detected
1,2-Dichloroethane	0.73	Not Detected	3.0	Not Detected
Trichloroethene	0.73	Not Detected	3.9	Not Detected
1,2-Dichloropropane	0.73	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.73	Not Detected	3.3	Not Detected
Toluene	0.73	1.9	2.8	7.3
trans-1,3-Dichloropropene	0.73	Not Detected	3.3	Not Detected
1,1,2-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Tetrachloroethene	0.73	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.73	Not Detected	5.6	Not Detected
Chlorobenzene	0.73	Not Detected	3.4	Not Detected
Ethyl Benzene	0.73	Not Detected	3.2	Not Detected
m,p-Xylene	0.73	1.2	3.2	5.3
o-Xylene	0.73	Not Detected	3.2	Not Detected
Styrene	0.73	Not Detected	3.1	Not Detected
1,1,2,2-Tetrachloroethane	0.73	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,2,4-Trimethylbenzene	0.73	1.4	3.6	6.9
1,3-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
1,4-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
alpha-Chlorotoluene	0.73	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
1,3-Butadiene	0.73	Not Detected	1.6	Not Detected
Hexane	0.73	Not Detected	2.6	Not Detected
Cyclohexane	0.73	Not Detected	2.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0802295-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022515**	**Date of Collection: 2/13/08**	
Dil. Factor:	**1.46**	**Date of Analysis: 2/25/08 09:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.73	Not Detected	3.0	Not Detected
Bromodichloromethane	0.73	Not Detected	4.9	Not Detected
Dibromochloromethane	0.73	Not Detected	6.2	Not Detected
Cumene	0.73	Not Detected	3.6	Not Detected
Propylbenzene	0.73	Not Detected	3.6	Not Detected
Chloromethane	2.9	Not Detected	6.0	Not Detected
1,2,4-Trichlorobenzene	2.9	Not Detected	22	Not Detected
Hexachlorobutadiene	2.9	Not Detected	31	Not Detected
Acetone	2.9	3.6	6.9	8.5
Carbon Disulfide	0.73	1.3	2.3	4.2
2-Propanol	2.9	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.73	Not Detected	2.2	Not Detected
Tetrahydrofuran	0.73	Not Detected	2.2	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected
4-Methyl-2-pentanone	0.73	Not Detected	3.0	Not Detected
2-Hexanone	2.9	Not Detected	12	Not Detected
Bromoform	0.73	Not Detected	7.5	Not Detected
4-Ethyltoluene	0.73	Not Detected	3.6	Not Detected
Ethanol	2.9	3.4	5.5	6.5
Methyl tert-butyl ether	0.73	Not Detected	2.6	Not Detected
3-Chloropropene	2.9	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	0.73	Not Detected	3.4	Not Detected
Naphthalene	2.9	Not Detected	15	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022515.d
Lab Smp Id: 0802295-02A
Inj Date : 25-FEB-2008 21:13
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #13844
Misc Info : 2.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 13:21 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.46000
Integrator: HP RTE Compound Sublist: AT08.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	392494	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	301531			45.17- 105.17	76.82
8.059	8.059 (1.000)	49	896483			184.09- 244.09	228.41
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1448976	25.0000		80.00- 120.00	100.00
9.911	9.912 (1.000)	88	231191			0.00- 45.36	15.96
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1011160	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	592823			0.00- 30.00	58.63
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	605414	20.2982	20.298	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	285241			19.51- 79.51	47.12
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1292928	24.3344	24.334	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	146976			0.00- 41.02	11.37

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	853989			39.73- 99.73	66.05
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	621288	23.6170	23.617	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	902048			110.96- 170.96	145.19
16.575	16.575 (1.105)	176	619611			64.94- 124.94	99.73
26 Ethanol					CAS #: 64-17-5		
4.105	4.078 (0.509)	45	32994	2.36760	3.457	80.00- 120.00	100.00
4.050	4.078 (0.503)	43	56977			0.00- 30.00	172.69
4.105	4.078 (0.509)	46	10854			0.00- 30.00	32.90
32 Acetone					CAS #: 67-64-1		
4.741	4.713 (0.588)	58	38676	2.44826	3.574	80.00- 120.00	100.00
4.741	4.713 (0.588)	43	136003			0.00- 30.00	351.65
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	53305	0.92205	1.346	80.00- 120.00	100.00
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	76290	1.33334	1.947	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	41068			28.80- 88.80	53.83
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	28715	0.84135	1.228	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	64420			0.00- 30.00	224.34
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	76902	0.95765	1.398	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	39504			15.46- 75.46	51.37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022515.d
Lab Smp Id: 0802295-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 2.5"Hg --> 5psi GEI

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	392494	-4.07
92 1,4-Difluorobenze	1482847	889708	2075986	1448976	-2.28
125 Chlorobenzene-d5	1050862	630517	1471207	1011160	-3.78

		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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802295-02A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 2.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.298	81.19	70-130
$ 107 Toluene-d8	25.000	24.334	97.34	70-130
$ 138 Bromofluorobenzene	25.000	23.617	94.47	70-130

Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Sample Info: 200mL #13844

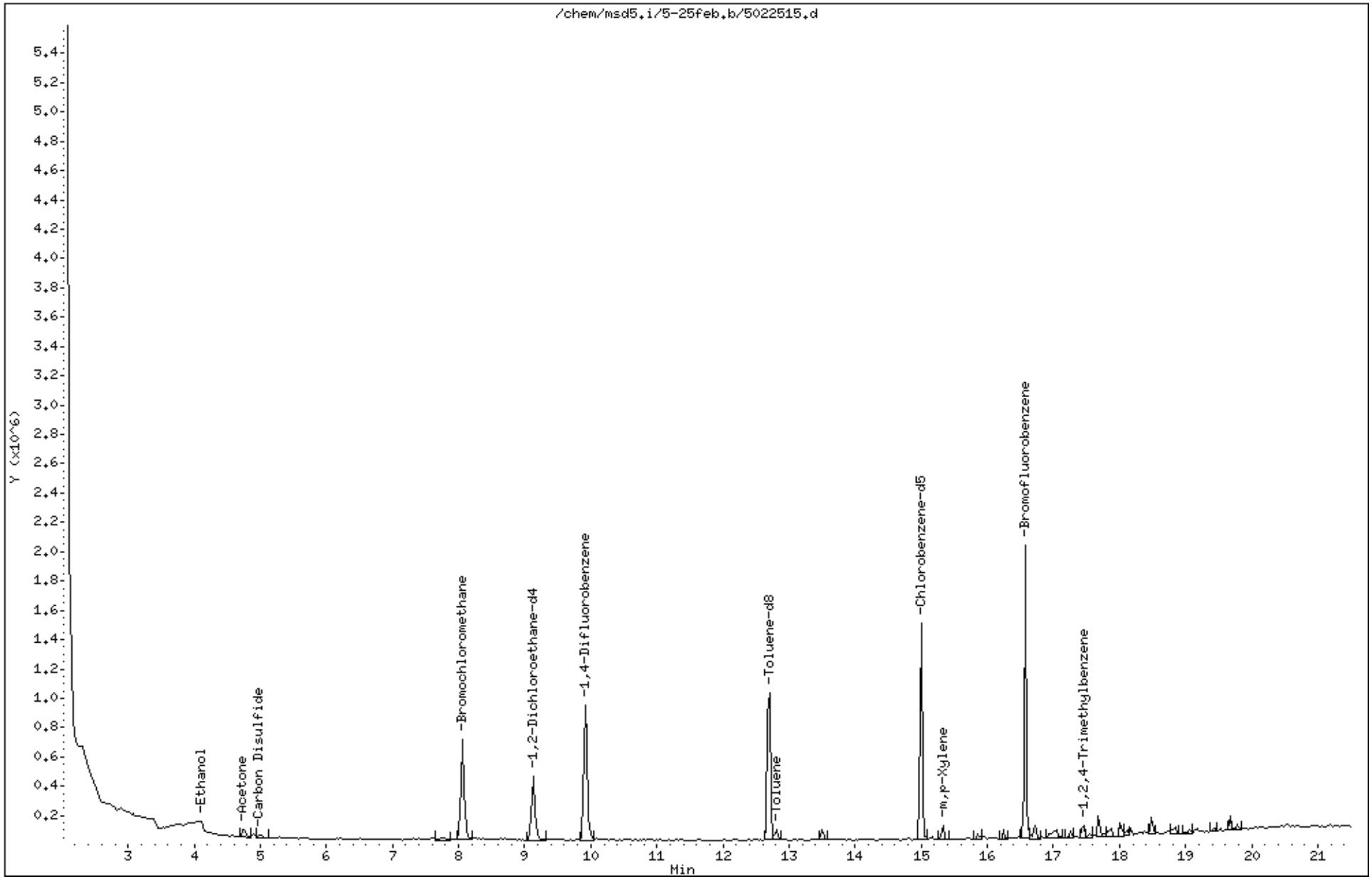
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0032



Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Instrument: msd5.i

Sample Info: 200mL #13844

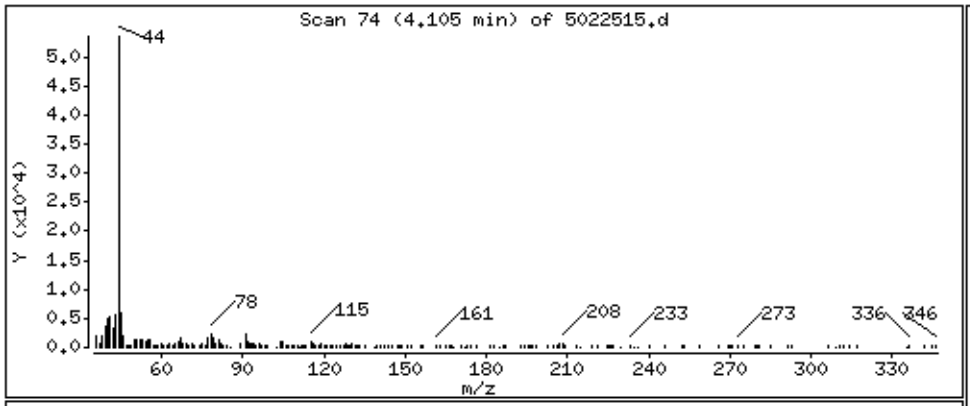
Operator: cb

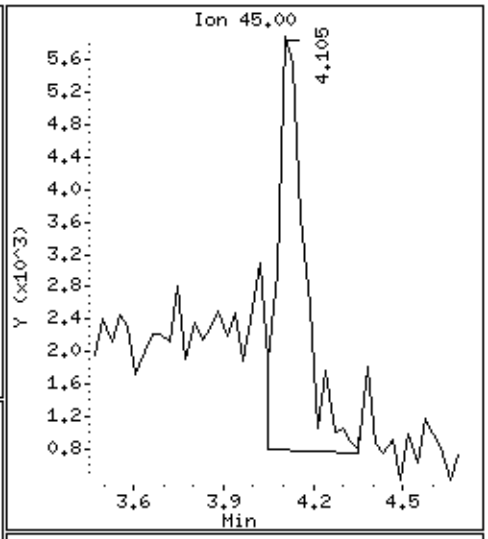
Column phase: RTx-624

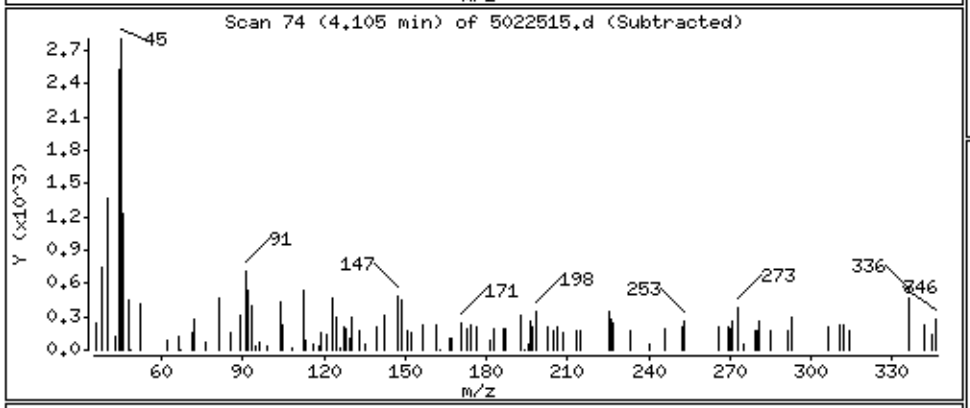
Column diameter: 0.53

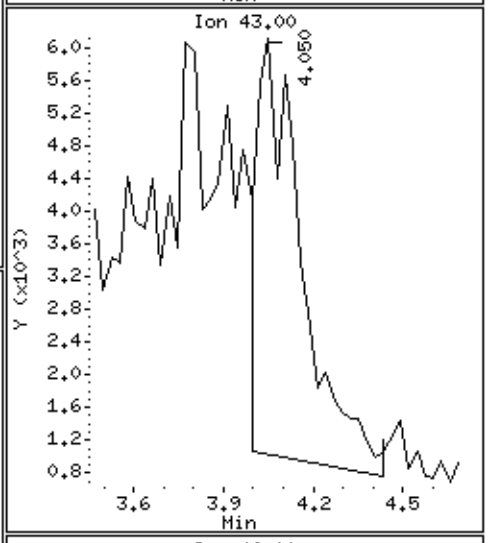
26 Ethanol

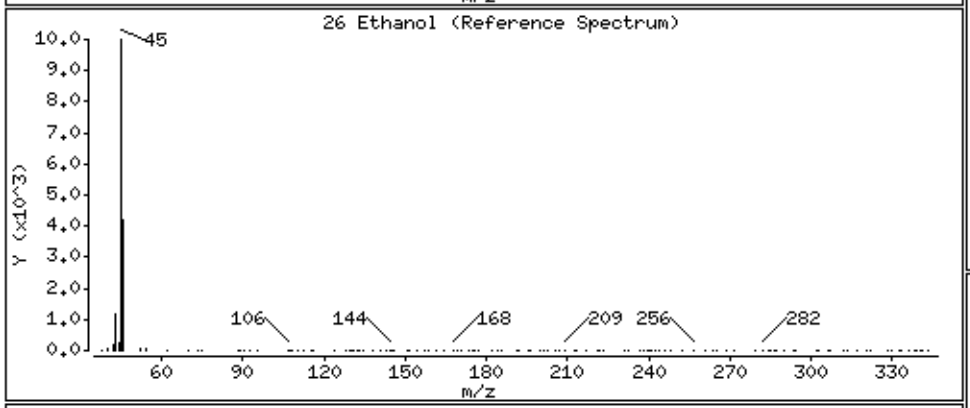
Concentration: 3.457 PPBV

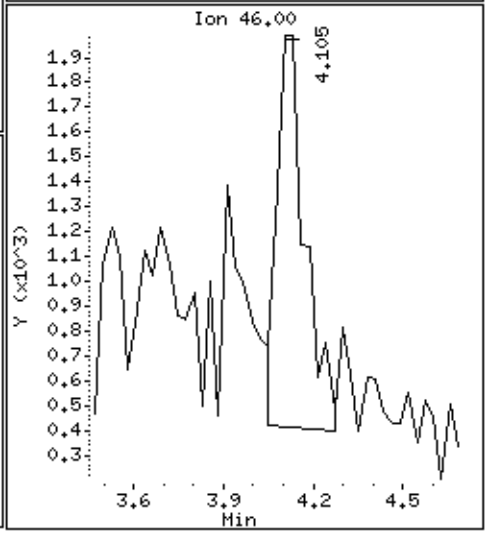


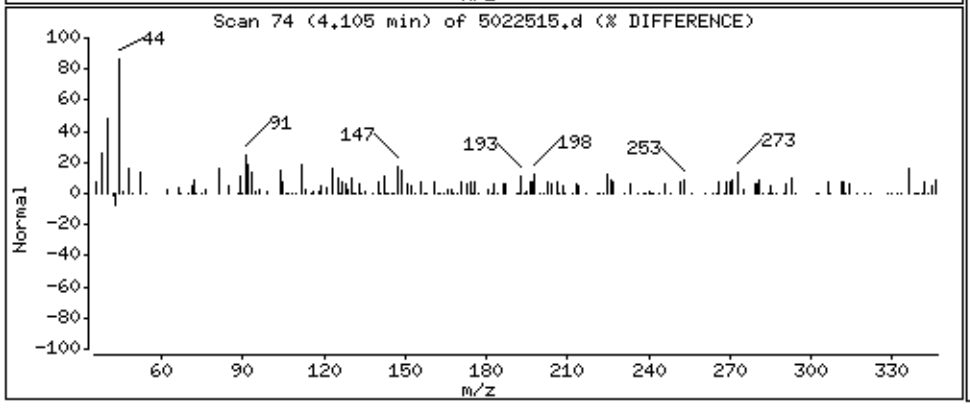












Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Instrument: msd5.i

Sample Info: 200mL #13844

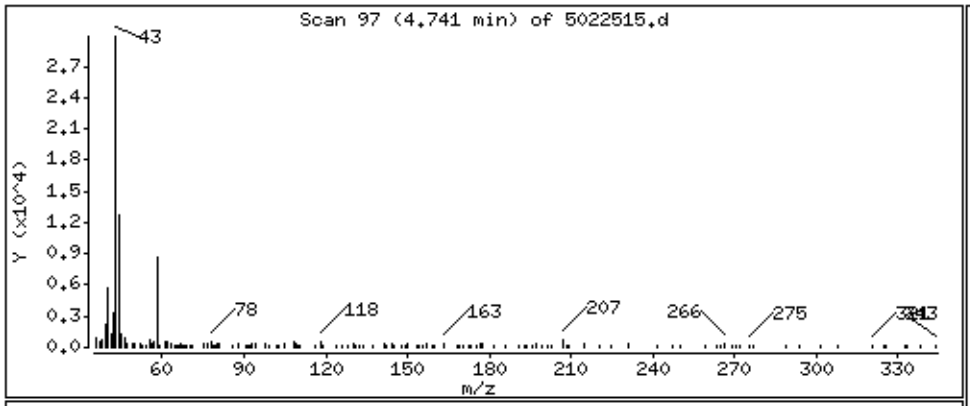
Operator: cb

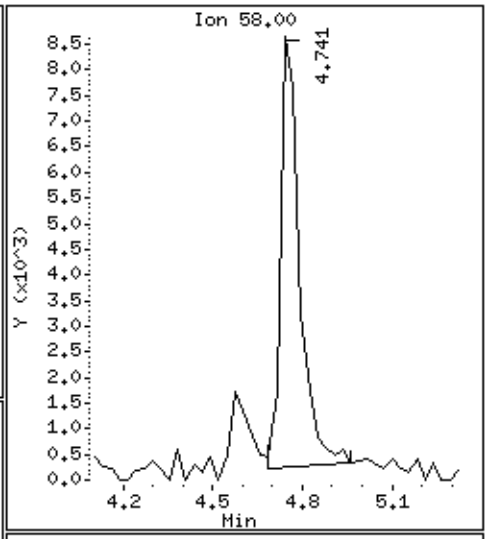
Column phase: RTx-624

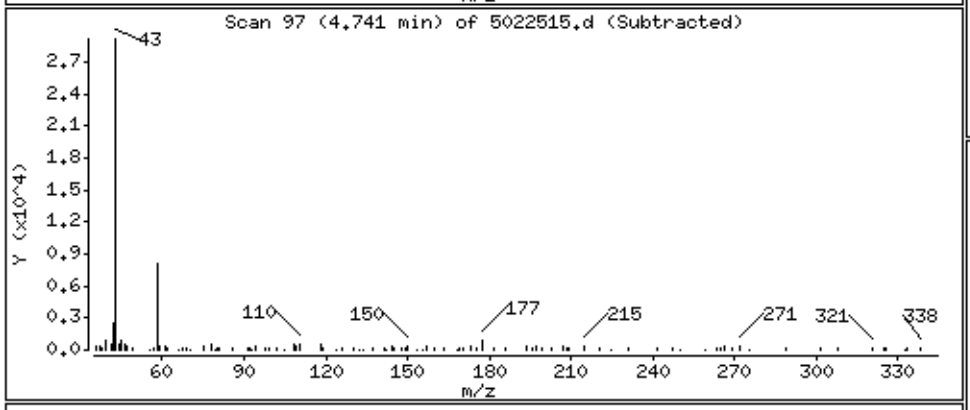
Column diameter: 0.53

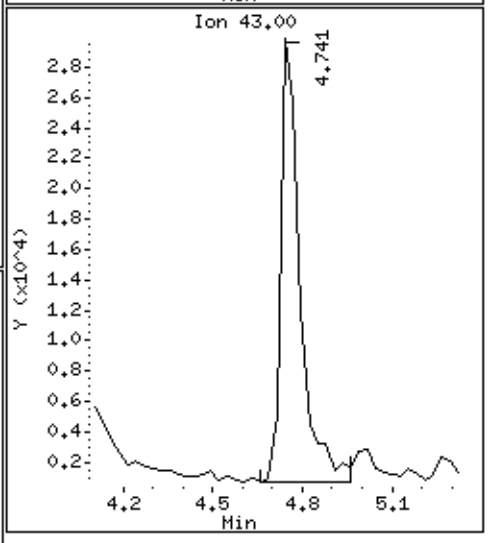
32 Acetone

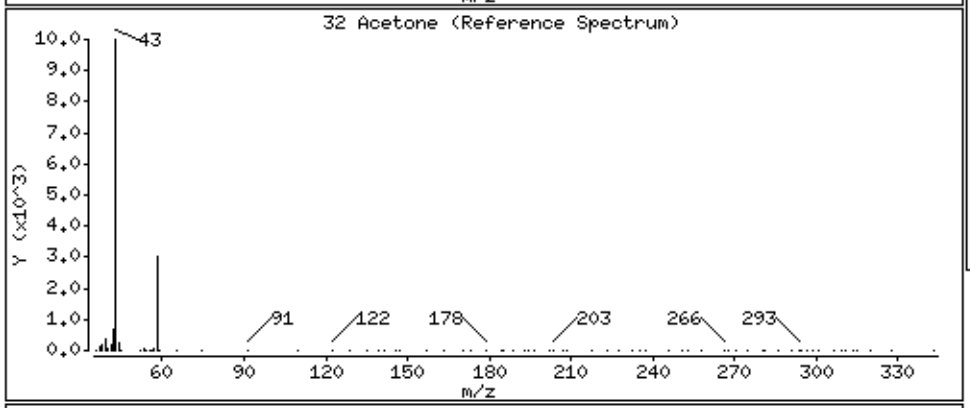
Concentration: 3.574 PPBV

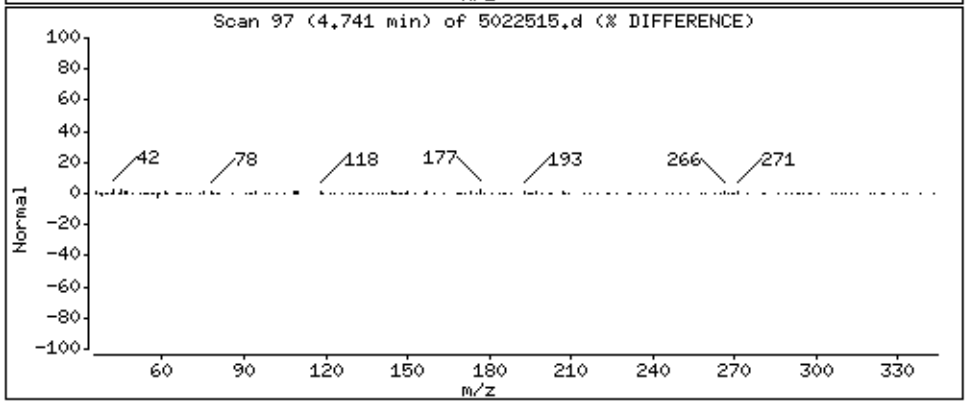












Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Instrument: msd5.i

Sample Info: 200mL #13844

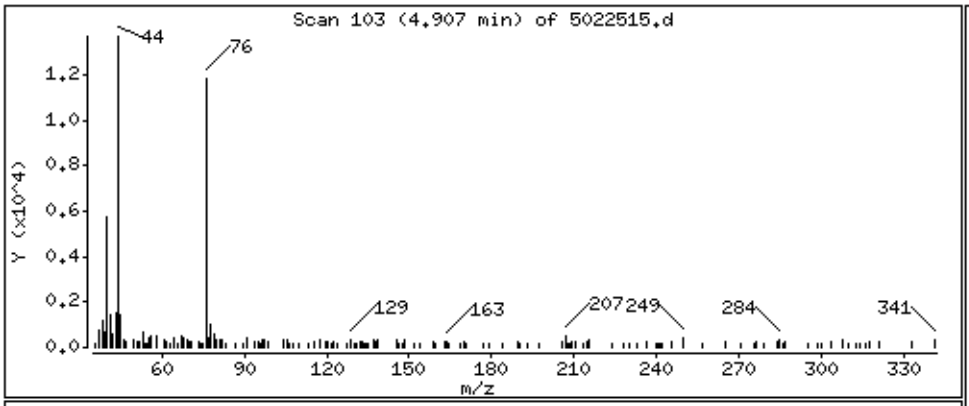
Operator: cb

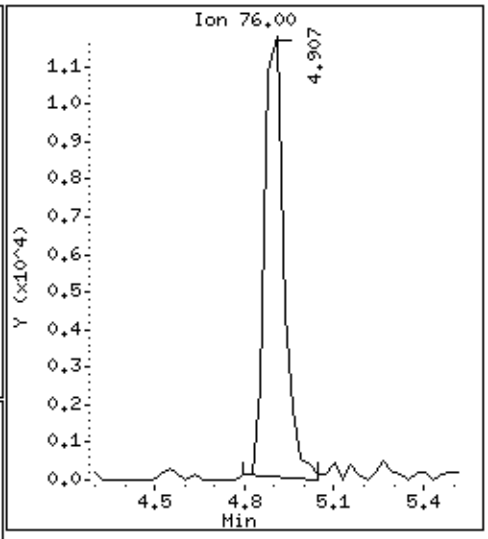
Column phase: RTx-624

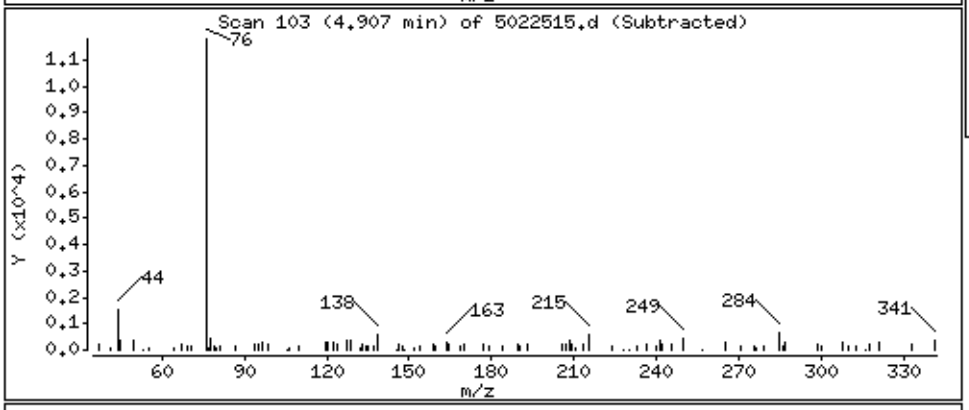
Column diameter: 0.53

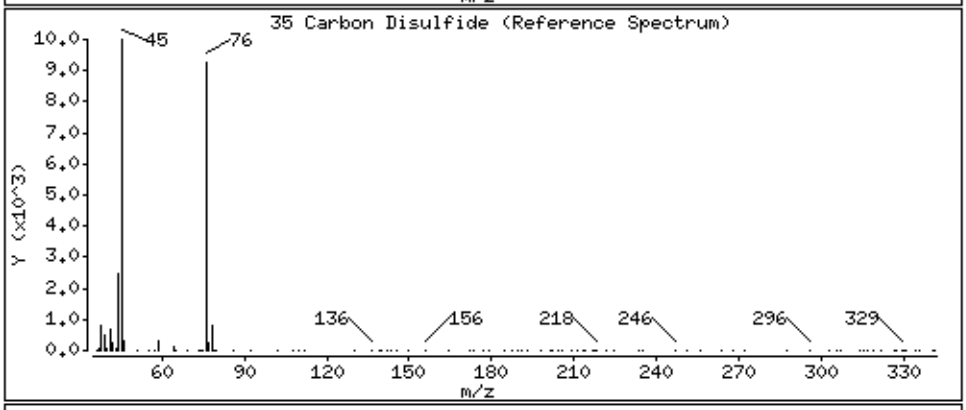
35 Carbon Disulfide

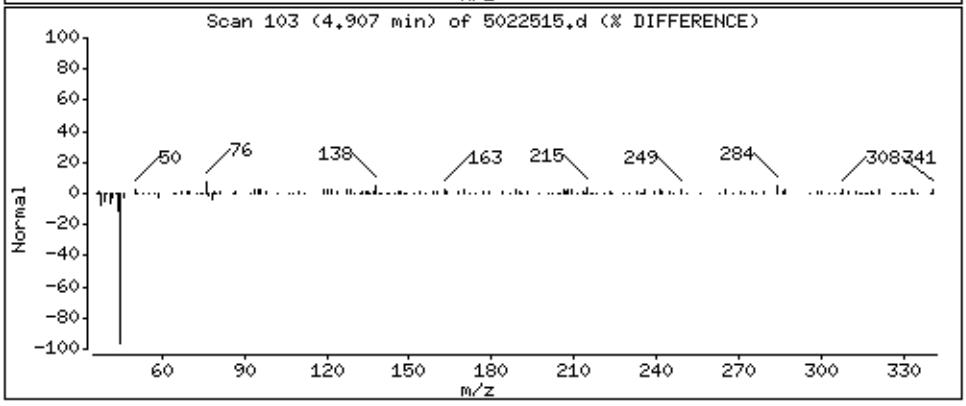
Concentration: 1.346 PPBV











Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Instrument: msd5.i

Sample Info: 200mL #13844

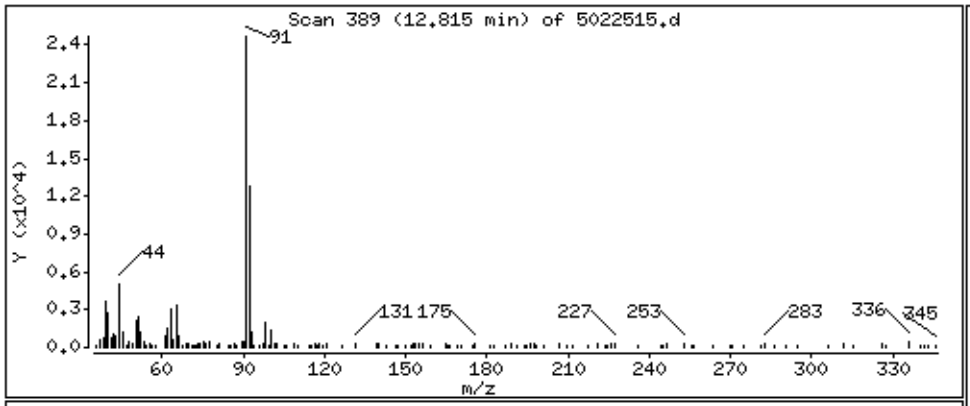
Operator: cb

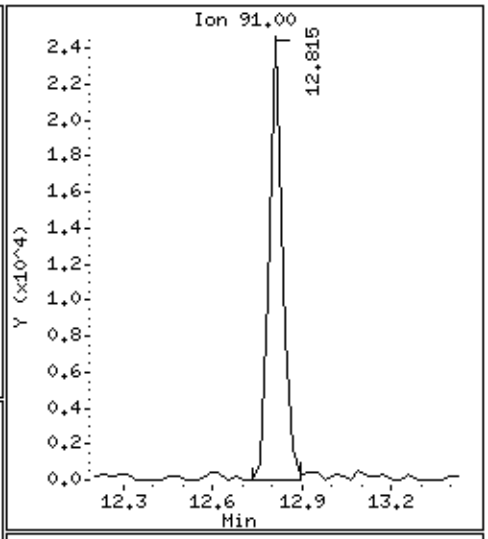
Column phase: RTx-624

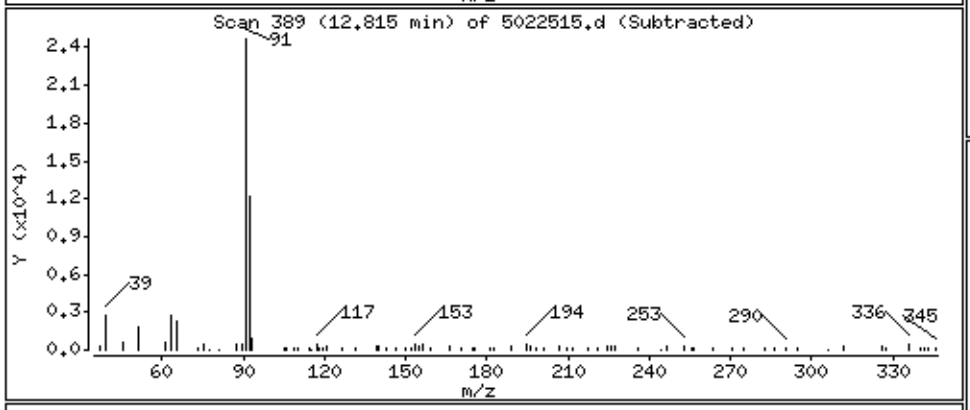
Column diameter: 0.53

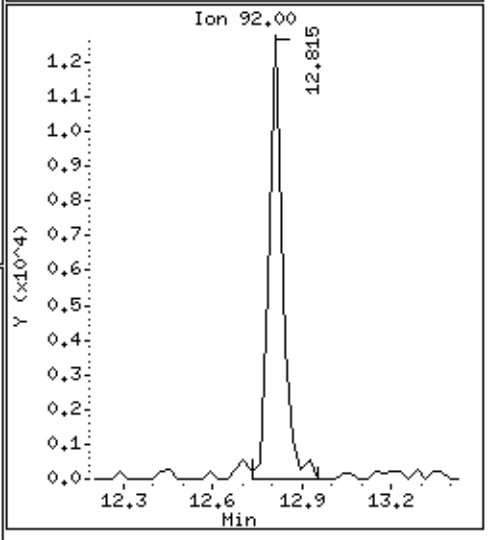
108 Toluene

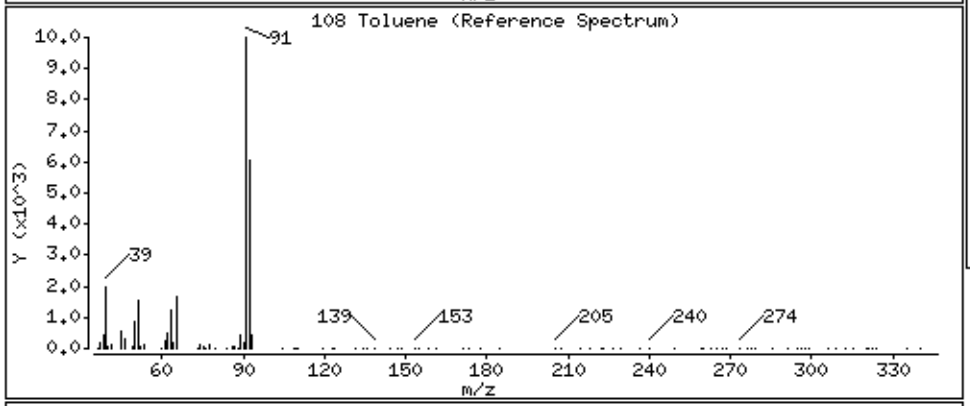
Concentration: 1.947 PPBV

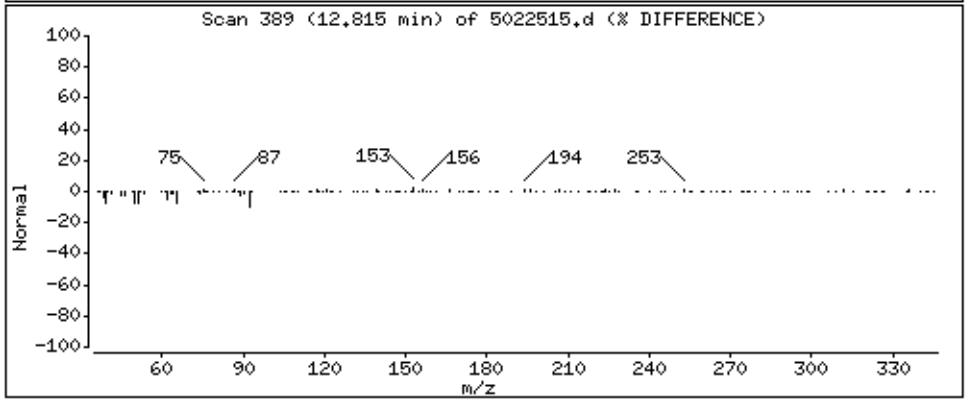












Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Instrument: msd5.i

Sample Info: 200mL #13844

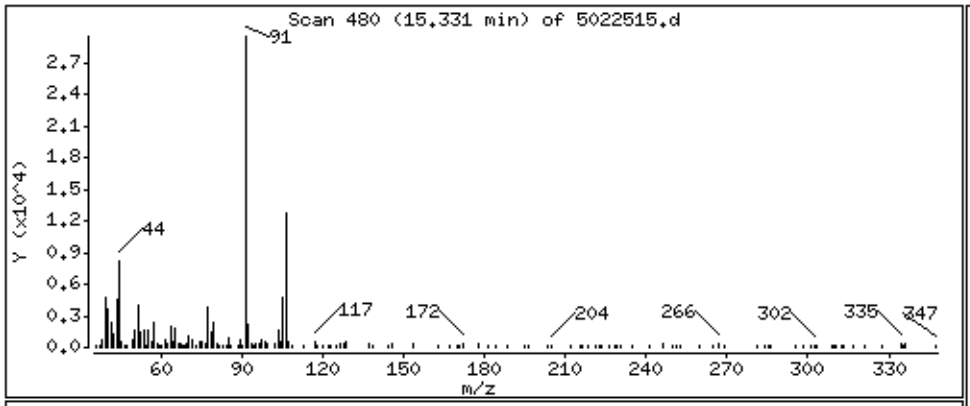
Operator: cb

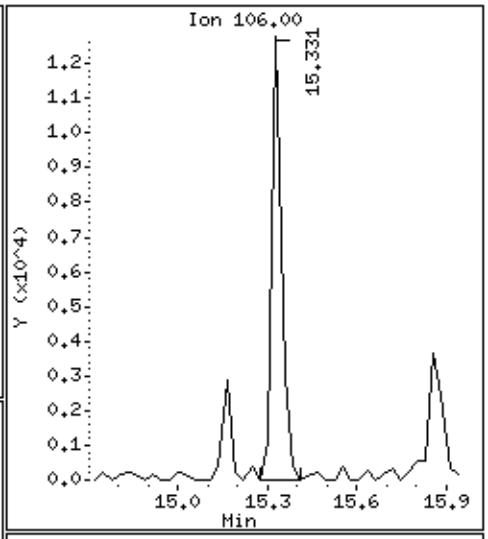
Column phase: RTx-624

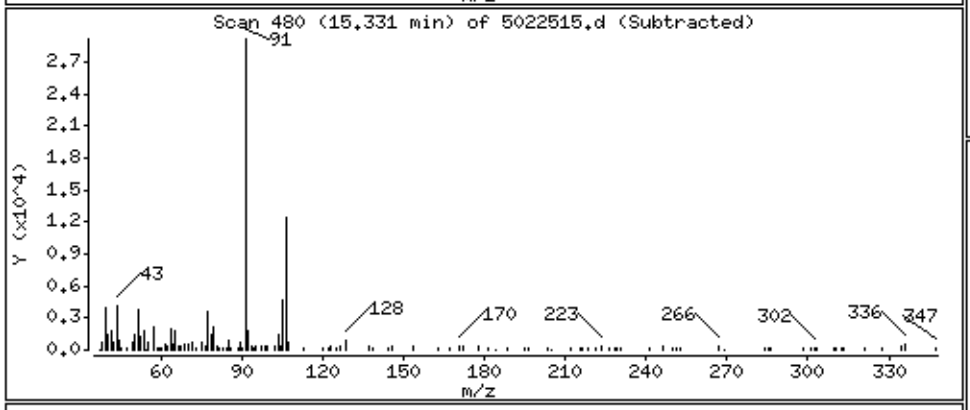
Column diameter: 0.53

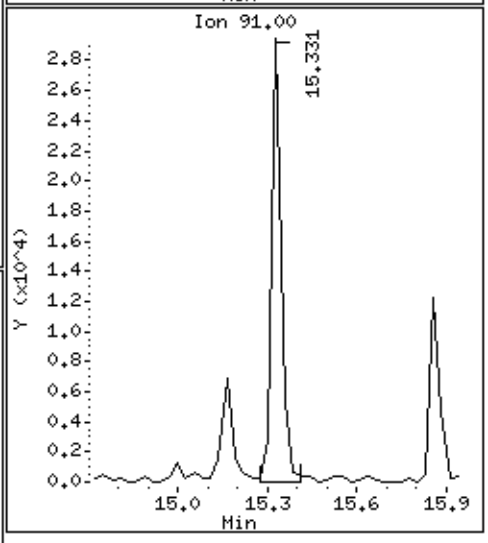
130 m,p-Xylene

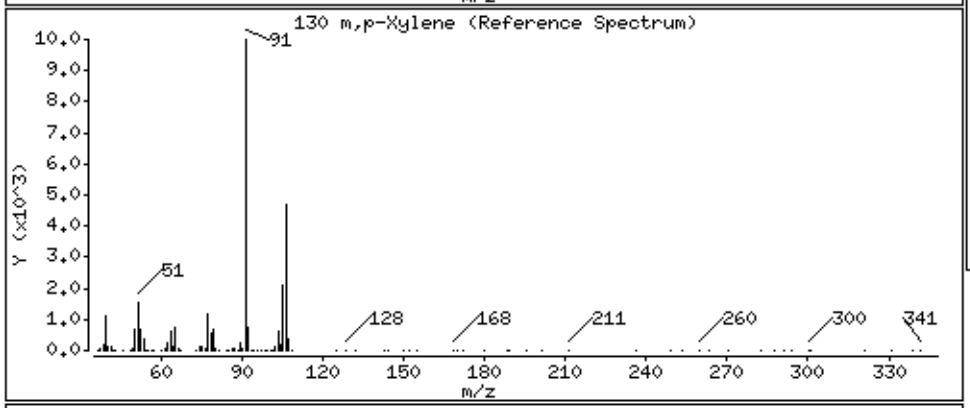
Concentration: 1.228 PPBV

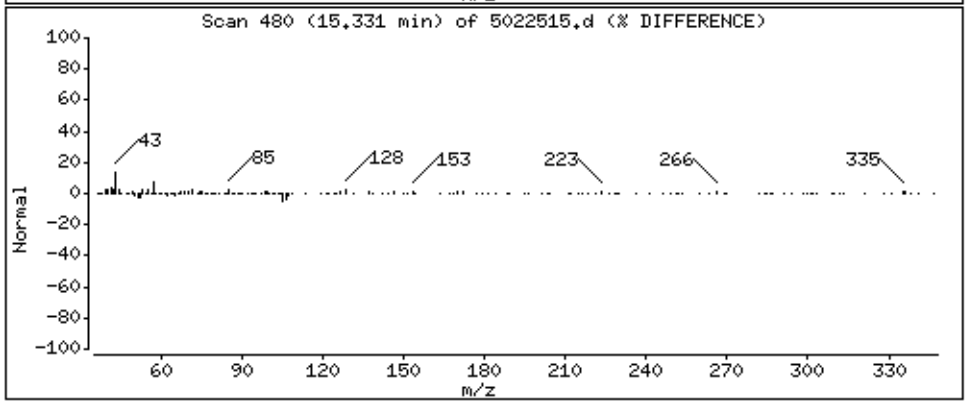












Data File: /chem/msd5.i/5-25feb.b/5022515.d

Date : 25-FEB-2008 21:13

Client ID:

Instrument: msd5.i

Sample Info: 200mL #13844

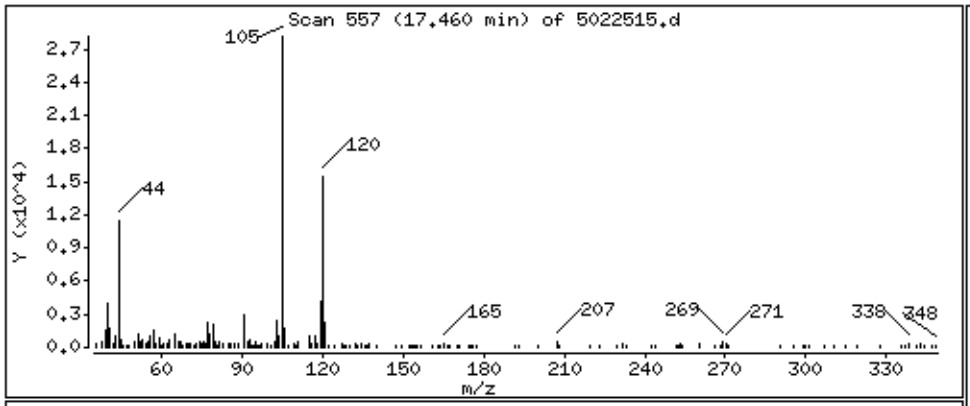
Operator: cb

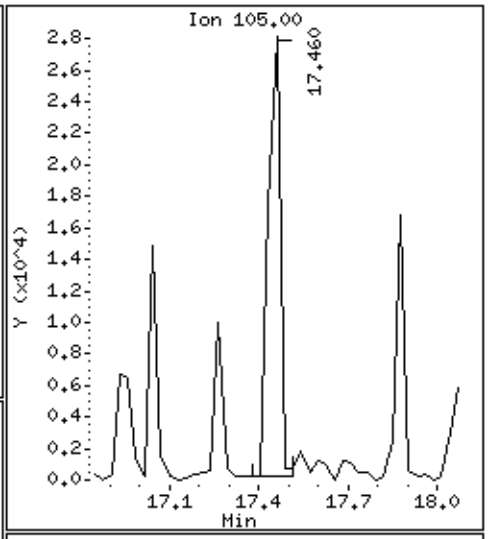
Column phase: RTx-624

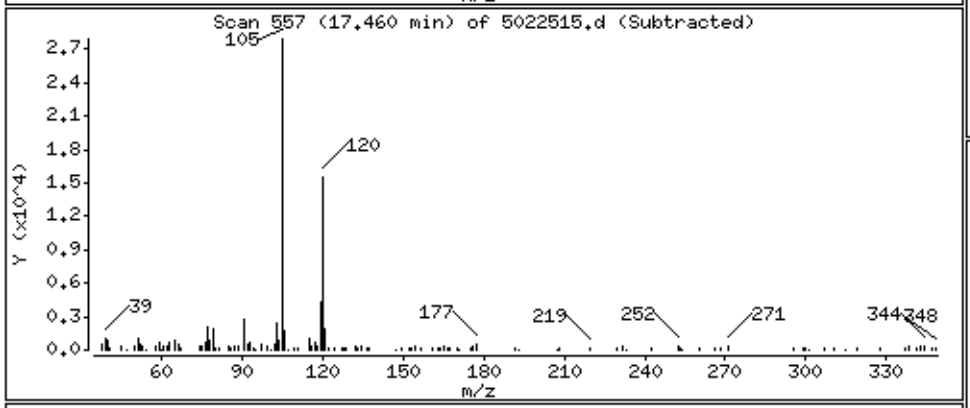
Column diameter: 0.53

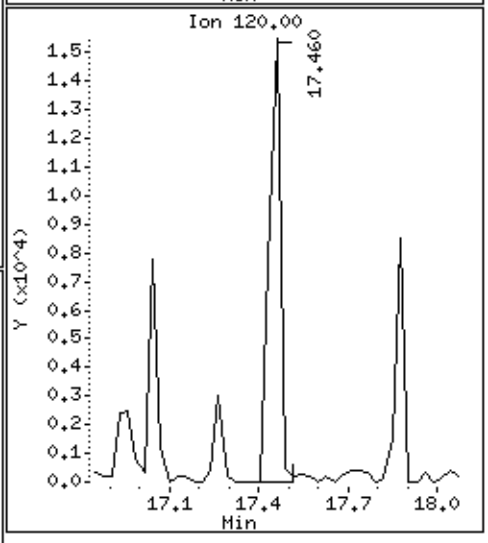
152 1,2,4-Trimethylbenzene

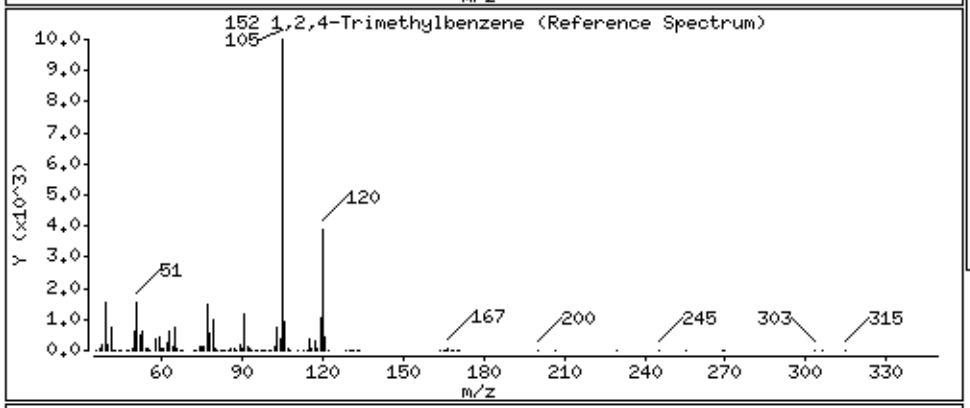
Concentration: 1.398 PPBV

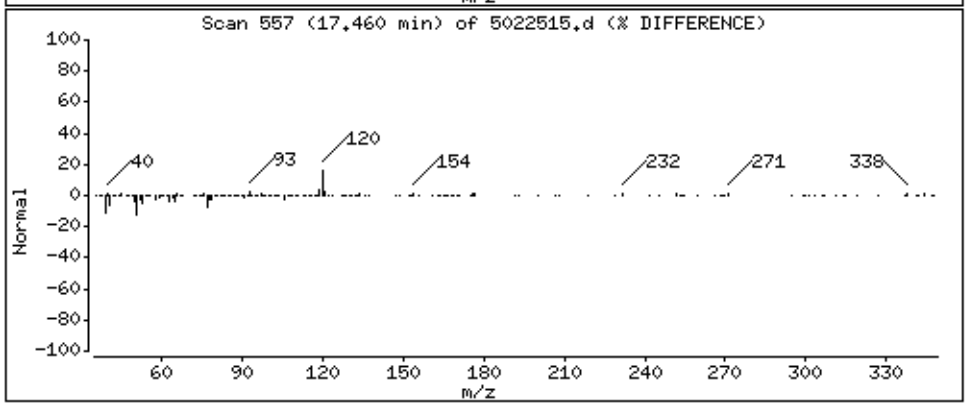












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: XXAMS X

Lab ID#: 0802295-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.8	8.1	9.1	19
2-Butanone (Methyl Ethyl Ketone)	0.96	2.8	2.8	8.2

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XXAMS X

Lab ID#: 0802295-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022516**	**Date of Collection:**	**2/13/08**
Dil. Factor:	**1.91**	**Date of Analysis:**	**2/25/08 09:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.96	Not Detected	4.7	Not Detected
Freon 114	0.96	Not Detected	6.7	Not Detected
Vinyl Chloride	0.96	Not Detected	2.4	Not Detected
Bromomethane	0.96	Not Detected	3.7	Not Detected
Chloroethane	0.96	Not Detected	2.5	Not Detected
Freon 11	0.96	Not Detected	5.4	Not Detected
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Freon 113	0.96	Not Detected	7.3	Not Detected
Methylene Chloride	0.96	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
cis-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Chloroform	0.96	Not Detected	4.7	Not Detected
1,1,1-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Carbon Tetrachloride	0.96	Not Detected	6.0	Not Detected
Benzene	0.96	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.96	Not Detected	3.9	Not Detected
Trichloroethene	0.96	Not Detected	5.1	Not Detected
1,2-Dichloropropane	0.96	Not Detected	4.4	Not Detected
cis-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
Toluene	0.96	Not Detected	3.6	Not Detected
trans-1,3-Dichloropropene	0.96	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Tetrachloroethene	0.96	Not Detected	6.5	Not Detected
1,2-Dibromoethane (EDB)	0.96	Not Detected	7.3	Not Detected
Chlorobenzene	0.96	Not Detected	4.4	Not Detected
Ethyl Benzene	0.96	Not Detected	4.1	Not Detected
m,p-Xylene	0.96	Not Detected	4.1	Not Detected
o-Xylene	0.96	Not Detected	4.1	Not Detected
Styrene	0.96	Not Detected	4.1	Not Detected
1,1,2,2-Tetrachloroethane	0.96	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,3-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,4-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
alpha-Chlorotoluene	0.96	Not Detected	4.9	Not Detected
1,2-Dichlorobenzene	0.96	Not Detected	5.7	Not Detected
1,3-Butadiene	0.96	Not Detected	2.1	Not Detected
Hexane	0.96	Not Detected	3.4	Not Detected
Cyclohexane	0.96	Not Detected	3.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XXAMS X

Lab ID#: 0802295-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022516**	**Date of Collection: 2/13/08**	
Dil. Factor:	**1.91**	**Date of Analysis: 2/25/08 09:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.96	Not Detected	3.9	Not Detected
Bromodichloromethane	0.96	Not Detected	6.4	Not Detected
Dibromochloromethane	0.96	Not Detected	8.1	Not Detected
Cumene	0.96	Not Detected	4.7	Not Detected
Propylbenzene	0.96	Not Detected	4.7	Not Detected
Chloromethane	3.8	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	41	Not Detected
Acetone	3.8	8.1	9.1	19
Carbon Disulfide	0.96	Not Detected	3.0	Not Detected
2-Propanol	3.8	Not Detected	9.4	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	2.8	2.8	8.2
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
4-Methyl-2-pentanone	0.96	Not Detected	3.9	Not Detected
2-Hexanone	3.8	Not Detected	16	Not Detected
Bromoform	0.96	Not Detected	9.9	Not Detected
4-Ethyltoluene	0.96	Not Detected	4.7	Not Detected
Ethanol	3.8	Not Detected	7.2	Not Detected
Methyl tert-butyl ether	0.96	Not Detected	3.4	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Naphthalene	3.8	Not Detected	20	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022516.d
Lab Smp Id: 0802295-03A
Inj Date : 25-FEB-2008 21:46
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #34228
Misc Info : 9.0"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 13:21 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.91000
Integrator: HP RTE Compound Sublist: AT08.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	378560	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	292893			45.17- 105.17	77.37
8.059	8.059 (1.000)	49	852689			184.09- 244.09	225.25
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1392944	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	230873			0.00- 45.36	16.57
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	964157	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	565453			0.00- 30.00	58.65
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	624608	21.7126	21.713	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	263282			19.51- 79.51	42.15
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1238897	24.2554	24.255	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	138621			0.00- 41.02	11.19

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	825382			39.73- 99.73	66.62
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	638404	25.4507	25.451	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	882644			110.96- 170.96	138.26
16.575	16.575 (1.105)	176	599335			64.94- 124.94	93.88
32 Acetone					CAS #: 67-64-1		
4.741	4.713 (0.588)	58	64312	4.22091	8.062	80.00- 120.00	100.00
4.741	4.713 (0.588)	43	196581			0.00- 30.00	305.67
67 2-Butanone					CAS #: 78-93-3		
7.700	7.644 (0.955)	72	12658	1.45009	2.770	80.00- 120.00	100.00
7.700	7.644 (0.955)	43	58487			652.43- 712.43	462.06
7.700	7.644 (0.955)	57	4586			0.00- 30.00	36.23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022516.d
Lab Smp Id: 0802295-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 9.0"Hg --> 5psi GEI

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	378560	-7.47
92 1,4-Difluorobenze	1482847	889708	2075986	1392944	-6.06
125 Chlorobenzene-d5	1050862	630517	1471207	964157	-8.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802295-03A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 9.0"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.713	86.85	70-130
$ 107 Toluene-d8	25.000	24.255	97.02	70-130
$ 138 Bromofluorobenzene	25.000	25.451	101.80	70-130

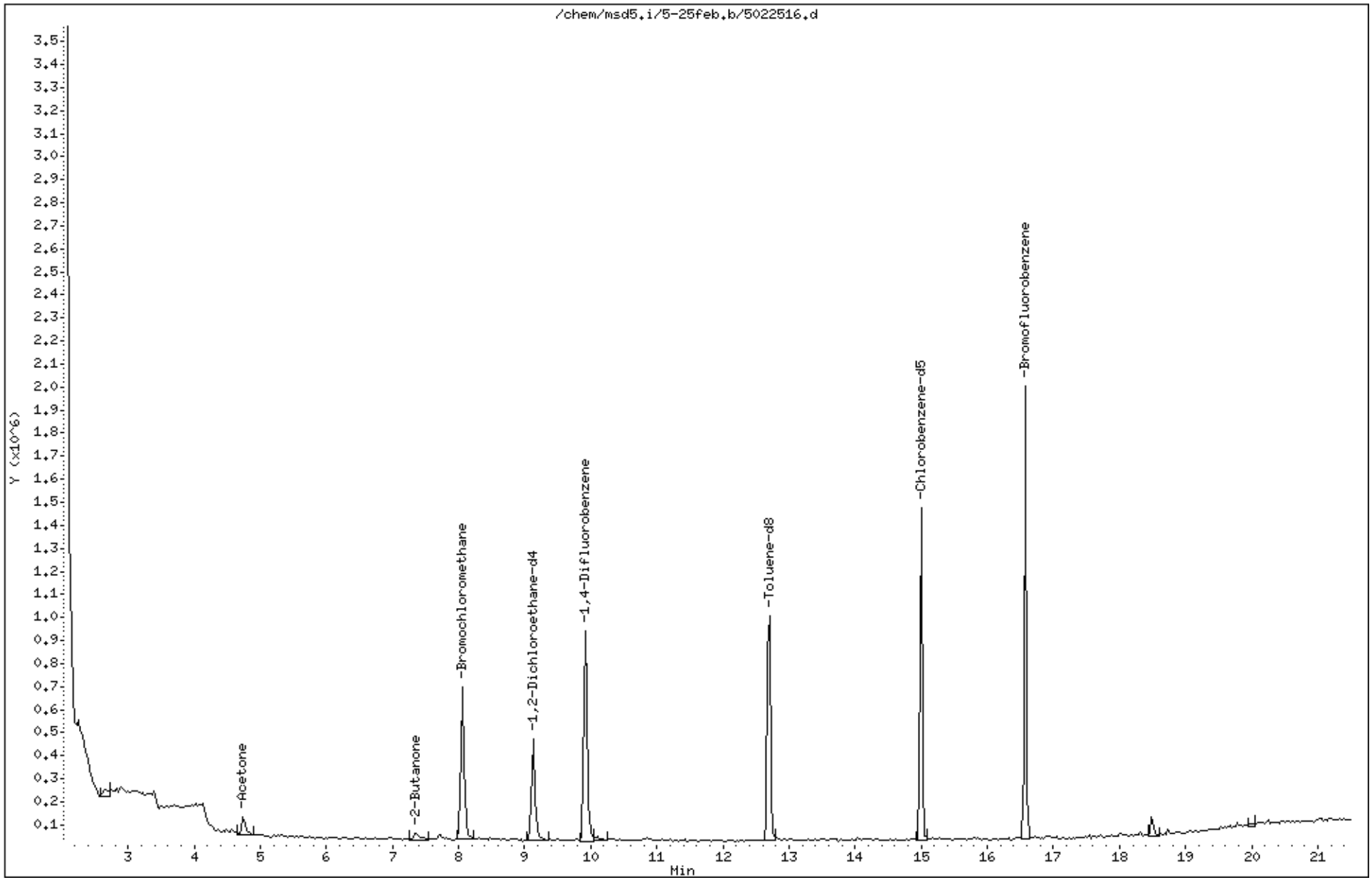
0046

Data File: /chem/msd5.i/5-25feb.b/5022516.d
Date : 25-FEB-2008 21:46
Client ID:
Sample Info: 200mL #34228

Instrument: msd5.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



Data File: /chem/msd5.i/5-25feb.b/5022516.d

Date : 25-FEB-2008 21:46

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34228

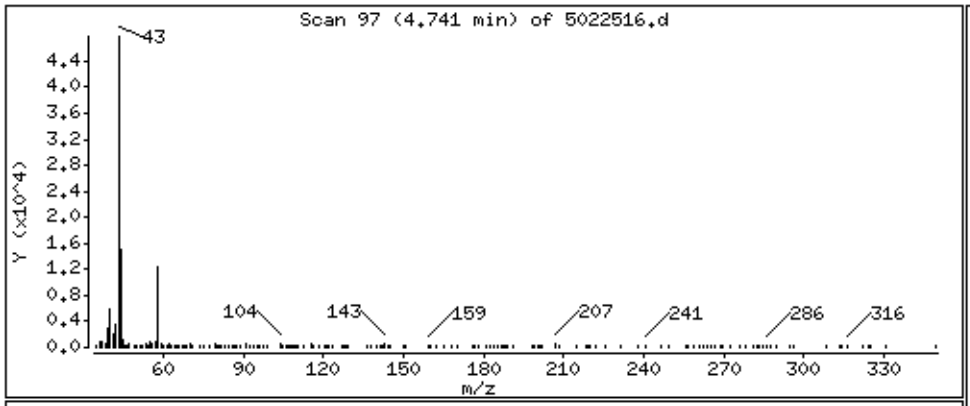
Operator: cb

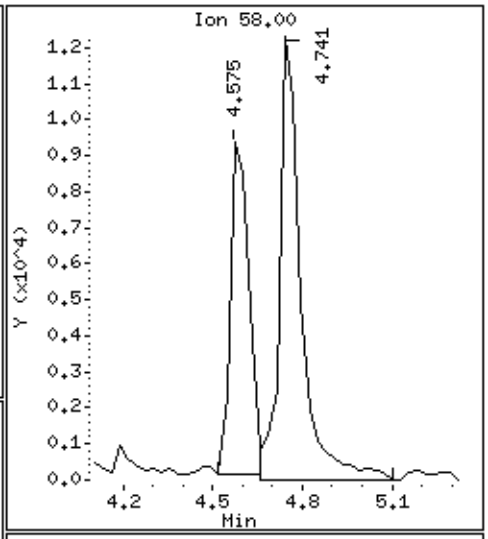
Column phase: RTx-624

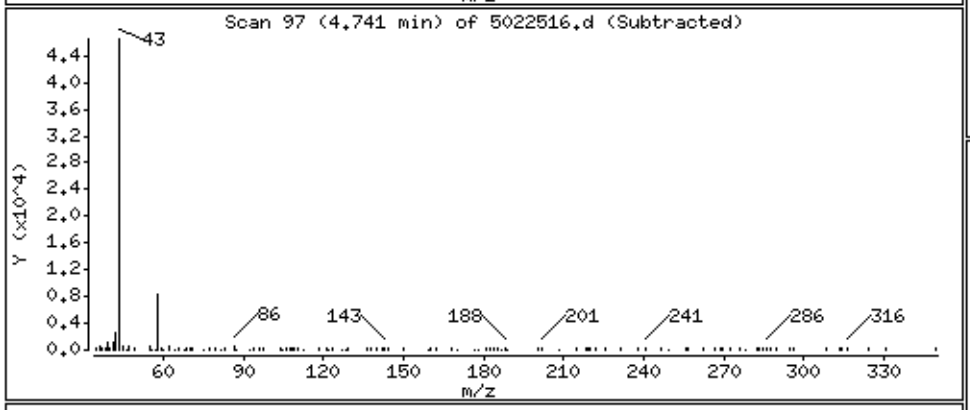
Column diameter: 0.53

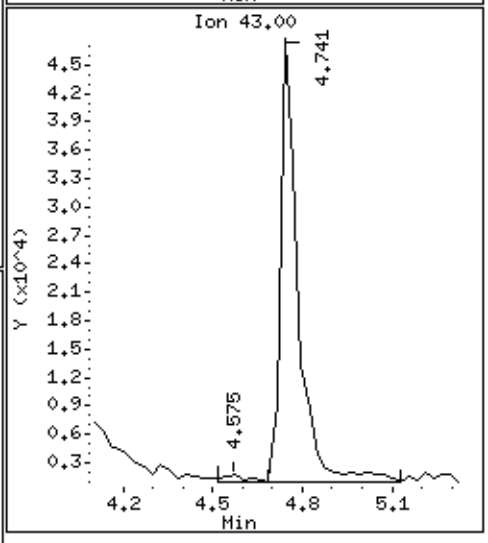
32 Acetone

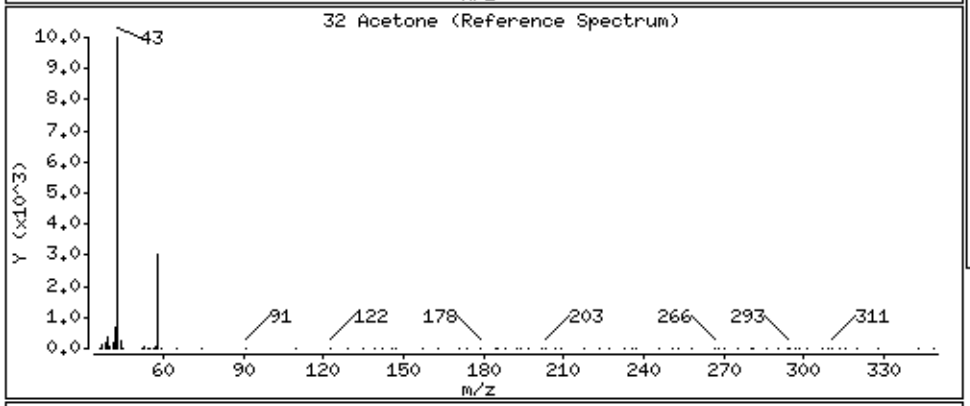
Concentration: 8.062 PPBV

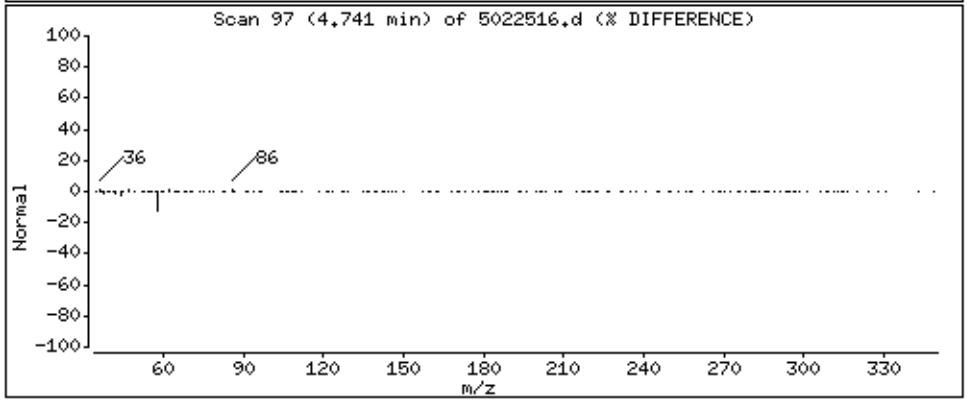












Data File: /chem/msd5.i/5-25feb.b/5022516.d

Date : 25-FEB-2008 21:46

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34228

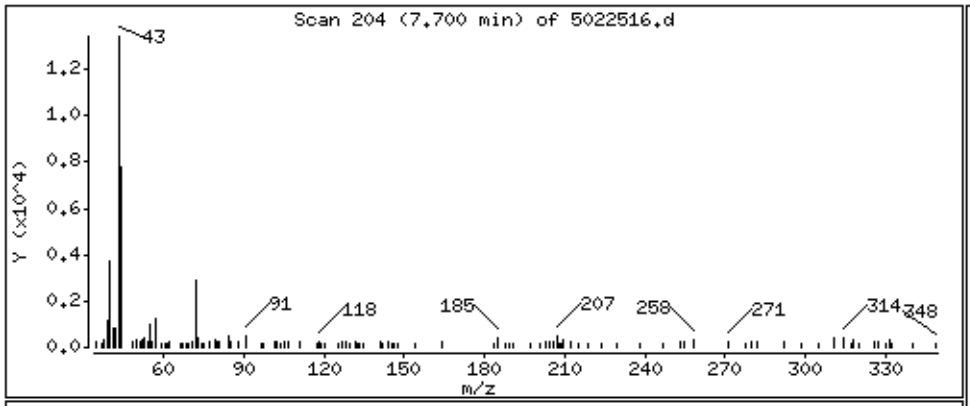
Operator: cb

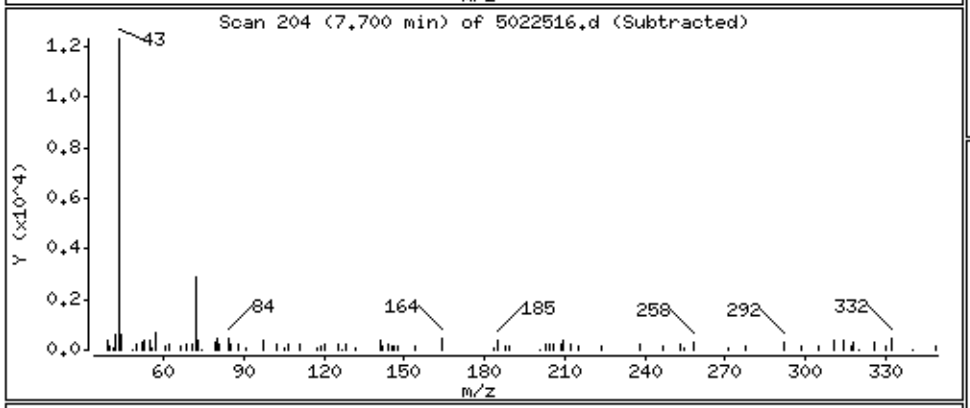
Column phase: RTx-624

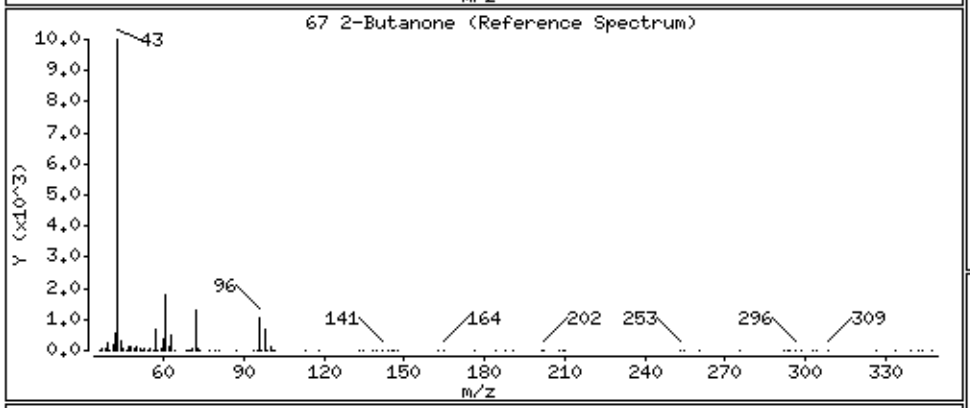
Column diameter: 0.53

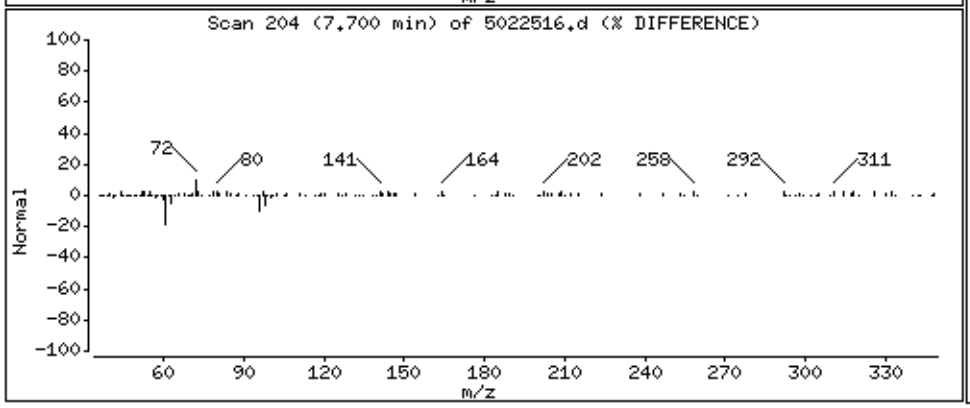
67 2-Butanone

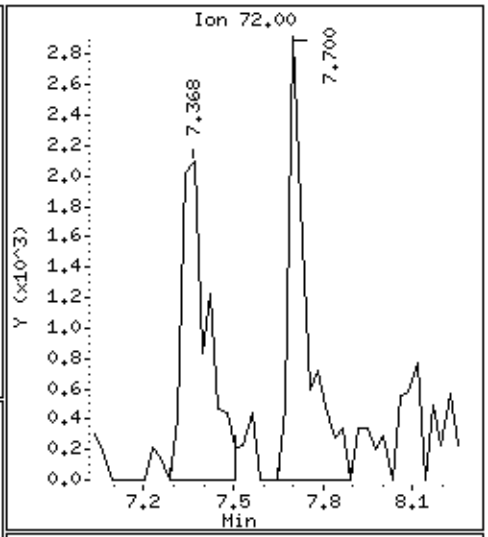
Concentration: 2.770 PPBV

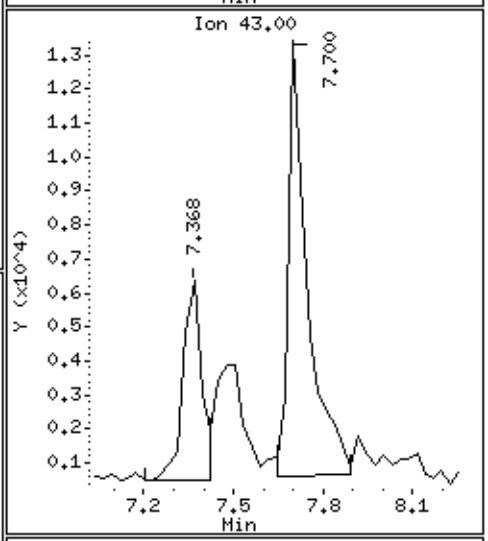


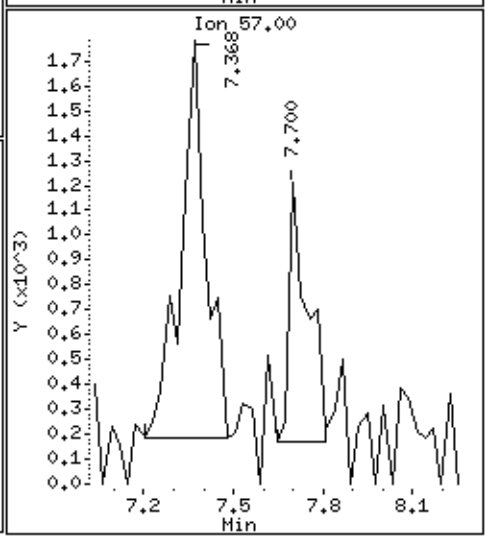












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: TRIP BLANK

Lab ID#: 0802295-04A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TRIP BLANK

Lab ID#: 0802295-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022517**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 10:18 PM**	

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: TRIP BLANK

Lab ID#: 0802295-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022517**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 10:18 PM**	

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: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022517.d
Lab Smp Id: 0802295-04A
Inj Date : 25-FEB-2008 22:18
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #30837
Misc Info : 4.4psi --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 13:21 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.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	375756	25.0000			80.00- 120.00	100.00
8.059	8.059 (1.000)	128	294030				45.17- 105.17	78.25
8.059	8.059 (1.000)	49	859382				184.09- 244.09	228.71
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1352987	25.0000			80.00- 120.00	100.00
9.912	9.912 (1.000)	88	229502				0.00- 45.36	16.96
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	942497	25.0000			80.00- 120.00	100.00
14.999	14.999 (1.000)	82	557304				0.00- 30.00	59.13
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	602447	21.0985	21.098		80.00- 120.00	100.00
9.137	9.137 (1.134)	67	282824				19.51- 79.51	46.95
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1221073	24.6124	24.612		80.00- 120.00	100.00
12.704	12.704 (1.282)	70	131759				0.00- 41.02	10.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
12.704	12.704 (1.282)	100	820415			39.73- 99.73	67.19
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	612016	24.9594	24.959	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	877370			110.96- 170.96	143.36
16.575	16.575 (1.105)	176	594771			64.94- 124.94	97.18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022517.d
Lab Smp Id: 0802295-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 4.4psi --> 5psi GEI

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	375756	-8.16
92 1,4-Difluorobenze	1482847	889708	2075986	1352987	-8.76
125 Chlorobenzene-d5	1050862	630517	1471207	942497	-10.31

		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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802295-04A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 4.4psi --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.098	84.39	70-130
$ 107 Toluene-d8	25.000	24.612	98.45	70-130
$ 138 Bromofluorobenzene	25.000	24.959	99.84	70-130

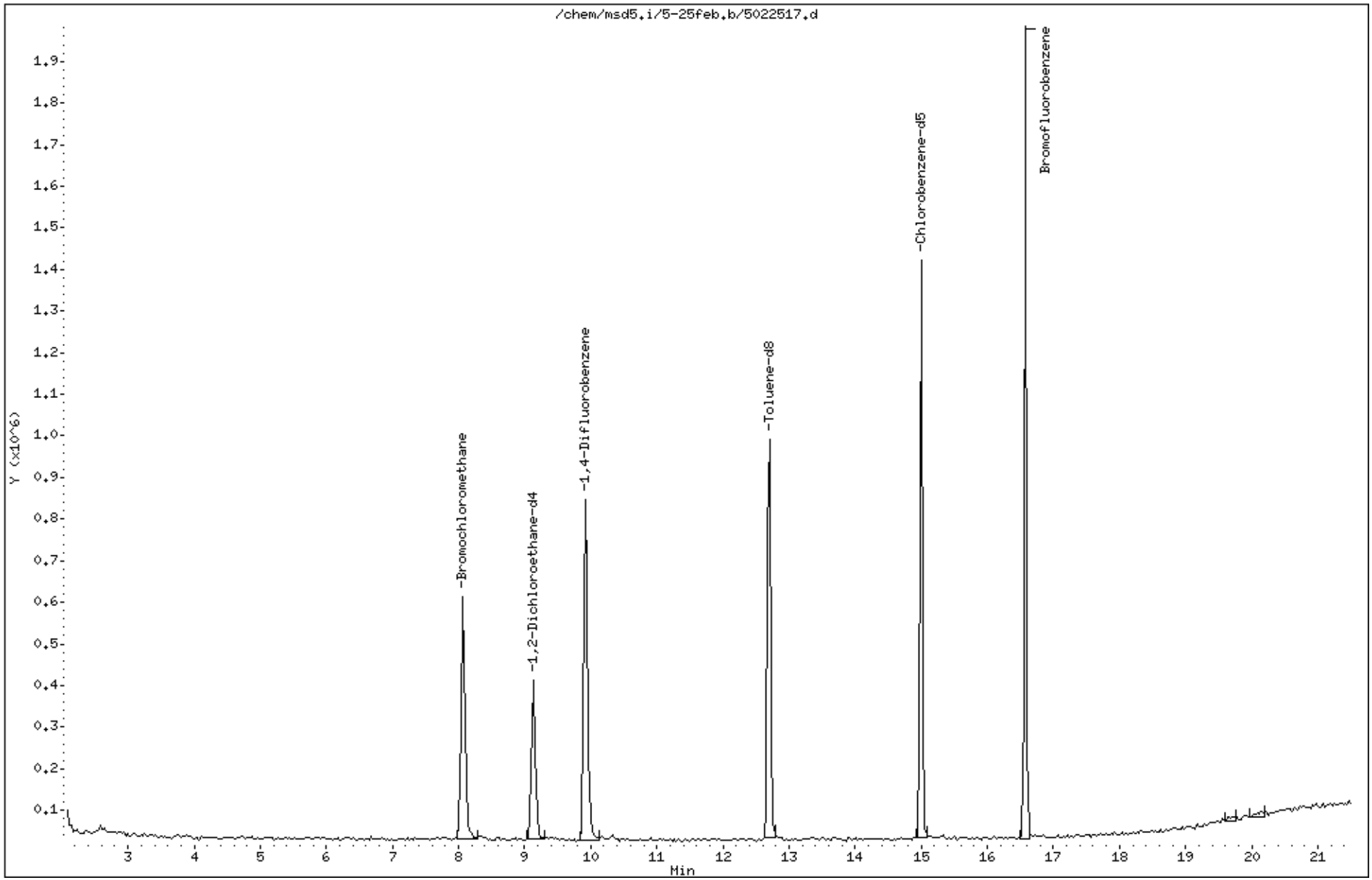
0056

Data File: /chem/msd5.i/5-25feb.b/5022517.d
Date : 25-FEB-2008 22:18
Client ID:
Sample Info: 200mL #30837

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0802295-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 12:01 PM**	

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#: 0802295-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 12:01 PM**	

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	98	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022506.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 25-FEB-2008 12:01
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #12941
Misc Info : Humid Cert Cart #14 Leg 8
Comment :
Method : /chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 11:36 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08+a.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	398056	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	310700			45.17- 105.17	78.05
8.059	8.059 (1.000)	49	928942			184.09- 244.09	233.37
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1489583	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	244496			0.00- 45.36	16.41
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1033055	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	604231			0.00- 30.00	58.49
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	647623	21.4100	21.410	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	296849			19.51- 79.51	45.84
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1337974	24.4957	24.496	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	143287			0.00- 41.02	10.71

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	909019			39.73- 99.73	67.94
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	670582	24.9506	24.950	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	923304			110.96- 170.96	137.69
16.575	16.575 (1.105)	176	644790			64.94- 124.94	96.15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022506.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: Humid Cert Cart #14 Leg 8

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	398056	-2.71
92 1,4-Difluorobenze	1482847	889708	2075986	1489583	0.45
125 Chlorobenzene-d5	1050862	630517	1471207	1033055	-1.69

		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: 25-Feb-2008 12:07

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08+a.sub
Method File: /chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: Humid Cert Cart #14 Leg 8

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.410	85.64	70-130
$ 107 Toluene-d8	25.000	24.496	97.98	70-130
$ 138 Bromofluorobenzene	25.000	24.950	99.80	70-130

Data File: /chem/msd5.i/5-25feb.b/5022506.d

Date : 25-FEB-2008 12:01

Client ID: Lab Blank

Sample Info: 100mL #12941

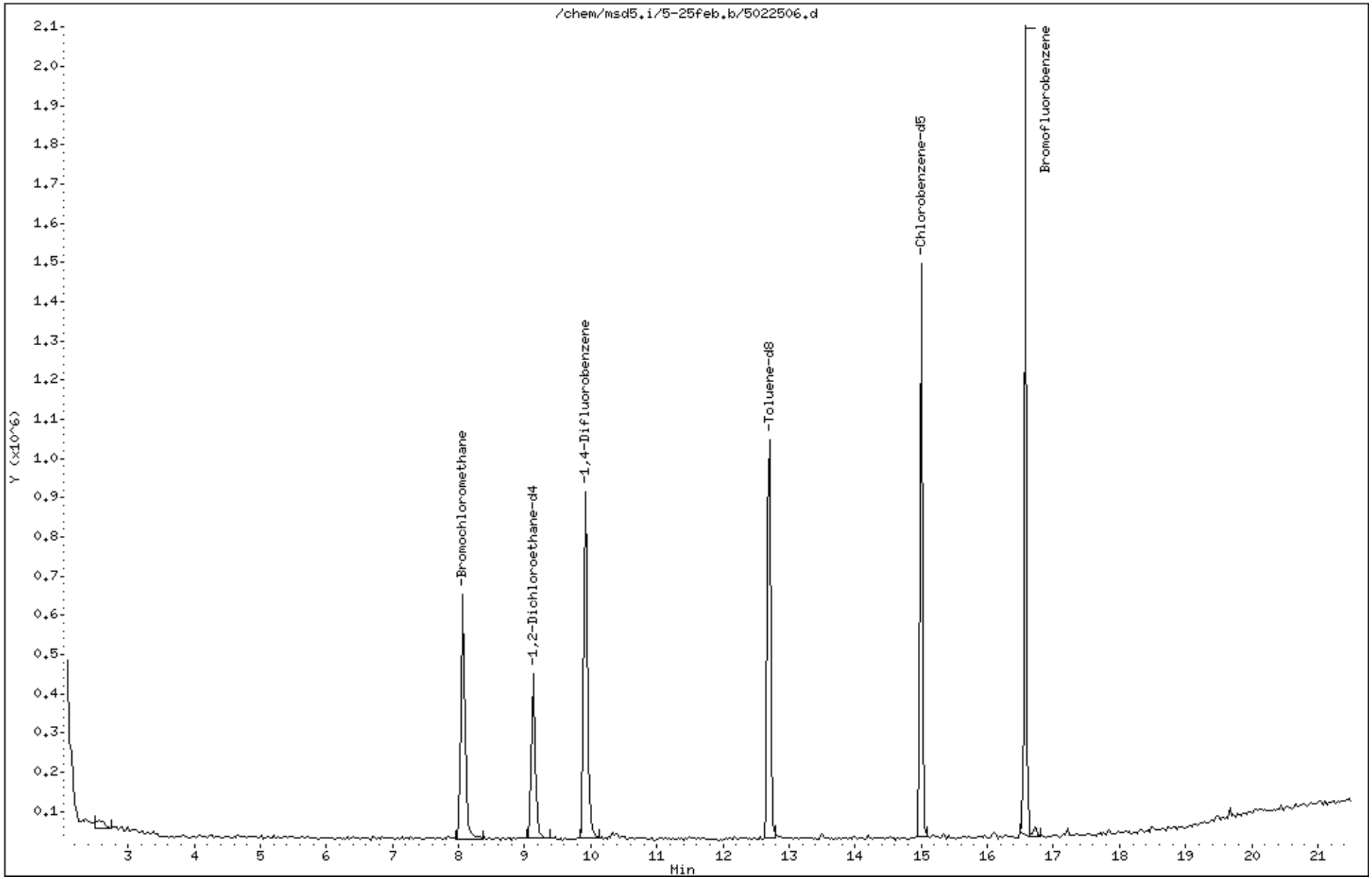
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0064



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0802295

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS 5	84		99		102				0
02	UW AMS 5 Lab Duplicate	85		98		97				0
03	DW AMS 3	81		97		94				0
04	XXAMS X	87		97		102				0
05	TRIP BLANK	84		98		100				0
06	Lab Blank	86		98		100				0
07	CCV	86		99		99				0
08	LCS	90		103		98				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: 0802295

Lab File ID: 5022503.d | Date Analyzed: 02/25/2008

Instrument ID: msd5.i | Time Analyzed: 09:57 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1050862		15		1482847		9.91		409127		8.06	
	UPPER LIMIT	1471207		15.33		2075986		10.24		572778		08.39	
	LOWER LIMIT	630517		14.67		889708		09.58		245476		07.73	
	CLIENT SAMPLE NO												
01	UW AMS 5	964260		15		1378660		9.91		377661		8.06	
02	UW AMS 5 Lab Duplicate	972746		15		1391934		9.91		372980		8.06	
03	DW AMS 3	1011160		15		1448976		9.91		392494		8.06	
04	XXAMS X	964157		15		1392944		9.91		378560		8.06	
05	TRIP BLANK	942497		15		1352987		9.91		375756		8.06	
06	Lab Blank	1033055		15		1489583		9.91		398056		8.06	
07	CCV	1050862		15		1482847		9.91		409127		8.06	
08	LCS	1040449		15		1466935		9.91		376664		8.06	
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: 5022514.d & 5022513.d

Lab Sample ID: 01A & 01AA Dilution: 1.87 & 1.87

Client Sample ID: & Date Analyzed: 2/25/08 & 2/25/08

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0
106-99-0	1,3-Butadiene	ND	U	ND	U	0
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0
123-91-1	1,4-Dioxane	ND	U	ND	U	0
540-84-1	2,2,4-Trimethylpentane	ND	U	ND	U	0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND	U	ND	U	0
591-78-6	2-Hexanone	ND	U	ND	U	0
67-63-0	2-Propanol	ND	U	ND	U	0
107-05-1	3-Chloropropene	ND	U	ND	U	0
622-96-8	4-Ethyltoluene	ND	U	ND	U	0
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0
67-64-1	Acetone	ND	U	ND	U	0
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0
71-43-2	Benzene	ND	U	ND	U	0
75-27-4	Bromodichloromethane	ND	U	ND	U	0
75-25-2	Bromoform	ND	U	ND	U	0
74-83-9	Bromomethane	ND	U	ND	U	0
75-15-0	Carbon Disulfide	0.9345		ND	U	-->200<--
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
108-90-7	Chlorobenzene	1.5		1.516		1.1
75-00-3	Chloroethane	ND	U	ND	U	0
67-66-3	Chloroform	ND	U	ND	U	0
74-87-3	Chloromethane	ND	U	ND	U	0
156-59-2	cis-1,2-Dichloroethene	ND	U	ND	U	0
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0
98-82-8	Cumene	ND	U	ND	U	0
110-82-7	Cyclohexane	ND	U	ND	U	0
124-48-1	Dibromochloromethane	ND	U	ND	U	0
64-17-5	Ethanol	ND	U	ND	U	0
100-41-4	Ethyl Benzene	ND	U	ND	U	0
75-69-4	Freon 11	ND	U	ND	U	0
76-13-1	Freon 113	ND	U	ND	U	0
76-14-2	Freon 114	ND	U	ND	U	0
75-71-8	Freon 12	ND	U	ND	U	0

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 5022514.d & 5022513.d

Lab Sample ID: 01A & 01AA

Dilution: 1.87 & 1.87

Client Sample ID: &

Date Analyzed: 2/25/08 & 2/25/08

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
142-82-5	Heptane	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
108-38-3	m,p-Xylene	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
91-20-3	Naphthalene	ND	U	ND	U	0
95-47-6	o-Xylene	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
100-42-5	Styrene	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
109-99-9	Tetrahydrofuran	ND	U	ND	U	0
108-88-3	Toluene	ND	U	ND	U	0
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0
79-01-6	Trichloroethene	ND	U	ND	U	0
75-01-4	Vinyl Chloride	ND	U	ND	U	0

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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-21feb.b/5022124.d
Level 2: /chem/msd5.i/5-21feb.b/5022116.d
Level 3: /chem/msd5.i/5-21feb.b/5022127.d
Level 4: /chem/msd5.i/5-21feb.b/5022118.d
Level 5: /chem/msd5.i/5-21feb.b/5022128.d
Level 6: /chem/msd5.i/5-21feb.b/5022120.d
Level 7: /chem/msd5.i/5-21feb.b/5022129.d

Compound	0.20000 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	+++++	+++++	1.16481	+++++	1.55659	+++++	1.48835	1.40325	14.915
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	0.90256	+++++	1.12951	+++++	1.04656	1.02621	11.190
4 Freon 22	+++++	+++++	0.39371	+++++	0.43760	+++++	0.42336	0.41822	5.354
5 Freon142b	+++++	+++++	2.70523	+++++	3.57481	+++++	3.30791	3.19598	13.938
6 Propylene	+++++	+++++	1.87422	2.26754	2.16015	2.13319	2.04178	2.09538	7.040
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
8 Dichlorodifluoromethane/Fr12	+++++	3.14665	3.11114	4.56475	4.24993	4.38353		
	4.06611						3.92035	16.185
9 Freon 114	+++++	2.49652	2.28039	3.29557	3.24052	3.14282		
	3.02027						2.91268	14.498
10 Chloromethane	+++++	+++++	2.31058	3.00111	2.86982	2.91505		
	3.00896						2.82110	10.327
11 Butane	+++++	+++++	0.56527	0.62067	0.57606	0.57619		
	0.58412						0.58446	3.648
12 1,3-Butadiene	+++++	1.95363	1.76722	2.31449	2.27489	2.23740		
	2.21758						2.12753	10.231
13 Vinyl Chloride	+++++	1.63343	1.62370	2.30709	2.21005	2.23114		
	2.17285						2.02971	15.461
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Bromomethane	+++++	0.88801	0.71688	1.31345	1.24194	1.27744		
	1.26551						1.11721	22.450
16 Dichlorofluoromethane/Fr21	+++++	+++++	1.98272	+++++	2.73462	+++++		
	2.66043						2.45926	16.849
17 Isopentane	+++++	+++++	2.77382	4.09473	3.91094	3.87319		
	3.88312						3.70716	14.283

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
19 Chloroethane	+++++	0.71041	0.76040	1.21536	1.10272	1.08616		
	1.10094						0.99600	20.855
20 Trichlorofluoromethane/Fr11	+++++	3.66972	3.74755	4.95025	4.57973	4.60486		
	4.57607						4.35470	11.953
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123a	+++++	+++++	1.06542	+++++	1.26585	+++++		
	1.23060						1.18729	9.012
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon123	+++++	+++++	0.14900	+++++	0.17799	+++++		
	0.18280						0.16993	10.762
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 Ethanol	+++++	+++++	0.59897	0.97870	0.96726	0.93776		
	0.95548						0.88763	18.259
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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	+++++	1.72582	1.97057	2.51603	2.33810	2.37838	2.38512	2.21900	13.674
31 1,1-Dichloroethene	+++++	2.51001	2.44890	3.50328	3.34621	3.29988	3.33960	3.07465	15.177
32 Acetone	+++++	+++++	0.75089	1.11147	1.06137	1.05477	1.05257	1.00622	14.386
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++	2.88571	2.89147	4.16579	4.00372	4.05510	4.09202	3.68230	16.758
36 2-Propanol	+++++	+++++	3.01470	4.60469	4.50407	4.63163	4.60817	4.27265	16.499
37 tert-Butyl-Alcohol	+++++	+++++	1.84795	2.31768	1.97996	1.73587	1.29011	1.83431	20.414

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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	+++++	+++++	0.52902	0.71738	0.68940	0.67575	0.71461	0.66523	11.742
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	2.23643	2.47508	2.96978	2.83969	2.82475	2.77470	2.68674	10.232
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	1.38462	1.04048	2.17662	2.13859	2.28774	2.00203	1.83835	27.477
47 trans-1,2-Dichloroethene	+++++	1.46727	1.28004	1.58048	1.54497	1.52786	1.55397	1.49243	7.419

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Isopropyl ether	+++++	+++++	5.64052	+++++	8.16267	+++++		
	7.93215						7.24511	19.246
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Hexane	+++++	3.33979	2.47930	4.11946	3.83082	3.91085		
	3.91058						3.59847	16.857
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 1,1-Dichloroethane	+++++	2.78205	2.48749	3.45179	3.29620	3.24930		
	3.31645						3.09721	12.146
56 Vinyl Acetate	+++++	+++++	0.25289	0.33381	0.36278	0.37606		
	0.37667						0.34044	15.255
57 Ethyl-tert-butyl Ether	+++++	+++++	2.26511	+++++	3.83146	+++++		
	3.23019						3.10892	25.417

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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	+++++	+++++	0.22239	+++++	0.28362	+++++	0.28816	0.26472	13.875
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	0.37933	+++++	0.38293	+++++	0.41990	0.39405	5.699
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.35661	1.98804	2.76495	2.60478	2.57213	2.60071	2.31454	23.343
67 2-Butanone	+++++	0.39141	0.47398	0.64147	0.63965	0.66290	0.64939	0.57647	19.894

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
70 Tetrahydrofuran	+++++	3.31656	2.32985	3.01253	2.86514	2.86732		
	2.85416						2.87426	11.130
72 Chloroform	3.40356	2.04653	2.24322	3.03597	2.84661	2.87939		
	2.85342						2.75838	16.855
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
74 Cyclohexane	+++++	1.44900	1.41186	1.95852	1.88041	1.86697		
	1.88923						1.74267	14.013
75 1,1,1-Trichloroethane	+++++	1.87661	2.33675	3.45867	3.36481	3.26582		
	3.26918						2.92864	22.432
76 Isobutanol	+++++	+++++	0.32972	+++++	0.47611	+++++		
	0.50303						0.43629	21.377
77 Carbon Tetrachloride	+++++	2.65533	2.28554	3.50510	3.28849	3.25490		
	3.35001						3.05656	15.594
78 tert-amyl-Methyl Ether	+++++	+++++	1.91399	+++++	2.78702	+++++		
	2.18007						2.29369	19.509

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 2,2,4-Trimethylpentane	+++++	7.56247	7.91215	10.88599	10.33708	10.24143		
	9.92001						9.47652	14.637
81 Benzene	1.00587	0.76965	0.76871	1.07762	1.01145	1.01070		
	0.95463						0.94266	13.129
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,2-Dichloroethane	+++++	0.60921	0.65507	0.80162	0.75241	0.74115		
	0.72521						0.71411	9.796
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
90 Heptane	+++++	0.08099	0.12394	0.14378	0.13692	0.12924		
	0.13109						0.12433	17.930
91 1-Butanol	+++++	+++++	0.17070	+++++	0.34320	+++++		
	0.38461						0.29950	37.881
93 Trichloroethene	+++++	0.46165	0.37362	0.47968	0.45648	0.46106		
	0.44378						0.44604	8.364
94 Methyl Cyclohexane	+++++	0.49944	0.47109	0.67767	0.64295	0.63223		
	0.61113						0.58908	14.214
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
98 1,2-Dichloropropane	+++++	0.40497	0.33189	0.46456	0.43632	0.43571		
	0.42712						0.41676	10.982
99 1,4-Dioxane	+++++	+++++	0.14719	0.23830	0.23853	0.23147		
	0.22607						0.21631	18.023
100 Bromodichloromethane	+++++	0.63527	0.59489	0.83811	0.79456	0.78935		
	0.76547						0.73627	13.256

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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	+++++	0.37828	0.37259	0.54954	0.53820	0.54663	0.52424	0.48492	17.586
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.27404	0.31860	0.45121	0.42635	0.44076	0.40327	0.38570	18.787
108 Toluene	+++++	0.66734	0.85599	1.17237	1.11227	1.10126	1.01399	0.98720	19.389
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.61374	0.52681	0.86882	0.85186	0.87776		
	0.86656						0.76759	20.260
114 1,1,2-Trichloroethane	+++++	0.34903	0.39060	0.57271	0.55694	0.53618		
	0.52618						0.48861	19.309
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 Tetrachloroethene	+++++	0.55791	0.58077	0.77867	0.72775	0.72011		
	0.69985						0.67751	12.991
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
118 Butyl Acetate	+++++	+++++	0.38981	+++++	0.52641	+++++		
	0.52987						0.48203	16.572
119 2-Hexanone	+++++	+++++	0.51592	0.79486	0.81086	0.82197		
	0.80656						0.75003	17.497
120 Dibromochloromethane	+++++	0.78939	0.69744	1.11376	1.07521	1.07392		
	1.06446						0.96903	18.365
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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	+++++	0.67218	0.63218	0.93135	0.90721	0.91273		
	0.89335						0.82483	16.353
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Chlorobenzene	+++++	1.13803	0.95312	1.38699	1.37768	1.35163		
	1.30731						1.25246	13.798
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.59606	0.50872	0.75825	0.70229	0.70734		
	0.65573						0.65473	13.747
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 m,p-Xylene	+++++	0.82262	0.62439	0.96497	0.91978	0.89790		
	0.83331						0.84383	14.229
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
132 o-Xylene	+++++	0.70000	0.52808	0.88464	0.86192	0.83045		
	0.77285						0.76299	17.425

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
133 Styrene	1.33098	1.00874	0.93150	1.36632	1.33875	1.31451		
	1.18000						1.21011	14.532
134 Bromoform	+++++	0.61168	0.60279	0.92485	0.91853	0.92155		
	0.90100						0.81340	19.662
135 Cyclohexanone	+++++	+++++	0.75015	+++++	0.88923	+++++		
	0.91965						0.85301	10.594
136 Cumene	2.91075	1.80187	2.03144	2.92881	2.82129	2.73613		
	2.51243						2.53467	17.719
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.77158	0.85311	1.16841	1.11367	1.07802		
	1.06649						1.00855	15.684
142 Propylbenzene	+++++	2.07292	2.23482	3.14729	3.01136	2.91951		
	2.79710						2.69717	16.281
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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
144 4-Ethyltoluene	+++++	1.92976	2.13965	2.96054	2.87045	2.72444	2.62842	2.54221	16.319
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	2.18915	+++++	2.59205	+++++	2.18282	2.32134	10.100
147 1,3,5-Trimethylbenzene	+++++	2.00948	1.85423	2.74041	2.62326	2.53808	2.30950	2.34583	15.081
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	1.61768	1.59035	2.24610	2.20499	2.15852	2.09479	1.98540	15.100
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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							
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 1,3-Dichlorobenzene	+++++	1.09760	1.15558	1.39003	1.34518	1.32083		
	1.27377						1.26383	9.038
156 1,4-Dichlorobenzene	+++++	1.27772	1.29011	1.72546	1.71467	1.62828		
	1.58948						1.53762	13.212
157 alpha-Chlorotoluene	+++++	1.16051	1.53843	2.49791	2.54727	2.64642		
	2.14011						2.08844	29.171
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
159 1,2-Dichlorobenzene	+++++	1.23929	1.24415	1.40924	1.36526	1.32738		
	1.27799						1.31055	5.238
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	1.02493	1.00169	1.01355	1.01035		
	0.96603						1.00331	2.237

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Compound	0.20000 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	+++++	+++++	0.91351	0.92065	0.90309	0.89272		
	0.85353						0.89670	2.938
165 Naphthalene	+++++	+++++	3.42148	3.13554	3.44149	3.43658		
	2.18245						3.12351	17.342
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.81113	1.91849	1.85262	1.86274	1.90459		
	2.04905						1.89977	4.348
$ 107 Toluene-d8	+++++	0.92506	0.91615	0.92431	0.91119	0.93495		
	0.88862						0.91671	1.745
$ 138 Bromofluorobenzene	+++++	0.66857	0.65384	0.64784	0.64173	0.65527		
	0.63521						0.65041	1.790

Calibration History

Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Start Cal Date: 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
22-FEB-2008 08:57	AFCEElow	/chem/msd5.i/5-21feb.b/5022124.d
Cal Level: 2 , Cal Amount: 0.50000		
21-FEB-2008 18:11	AT08Low	/chem/msd5.i/5-21feb.b/5022116.d
Cal Level: 3 , Cal Amount: 2.00000		
22-FEB-2008 11:08	sp17a	/chem/msd5.i/5-21feb.b/5022127.d
21-FEB-2008 18:39	AT08mdl	/chem/msd5.i/5-21feb.b/5022117.d
Cal Level: 4 , Cal Amount: 25.00000		
21-FEB-2008 19:07	AT08mdl	/chem/msd5.i/5-21feb.b/5022118.d
Cal Level: 5 , Cal Amount: 50.00000		
22-FEB-2008 11:36	sp17a	/chem/msd5.i/5-21feb.b/5022128.d
21-FEB-2008 19:35	AT08mdl	/chem/msd5.i/5-21feb.b/5022119.d
Cal Level: 6 , Cal Amount: 100.00000		
21-FEB-2008 20:04	AT08mdl	/chem/msd5.i/5-21feb.b/5022120.d
Cal Level: 7 , Cal Amount: 200.00000		
22-FEB-2008 12:09	sp17a	/chem/msd5.i/5-21feb.b/5022129.d
21-FEB-2008 20:36	AT08mdl	/chem/msd5.i/5-21feb.b/5022121.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
22-FEB-2008 11:36	sp17a	/chem/msd5.i/5-21feb.b/5022128.d
Ccal Level: 5 , Ccal Amount: 50.000		
22-FEB-2008 11:36	sp17aCCV	/chem/msd5.i/5-21feb.b/5022128a.d
Ccal Level: 5 , Ccal Amount: 50.000		
21-FEB-2008 19:35	AT08mdl	/chem/msd5.i/5-21feb.b/5022119a.d
Ccal Level: 5 , Ccal Amount: 50.000		
21-FEB-2008 19:35	AT08mdl	/chem/msd5.i/5-21feb.b/5022119.d

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 2/21/2008.

The following compounds used either 0.2 or 0.25 ppbv as the lowest calibration concentration:
Chloroform, Benzene, Cumene, and Styrene.

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

6800

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.63
75	30.0 – 60.0% of mass 95	55.88
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.52
173	Less than 2.0% of mass 174	(1.14)[1]
174	Greater than 50.0% of mass 95	96.49
175	5.0 – 9.0% of mass 174	(7.07)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.36)[1]
177	5.0 – 9.0% of mass 176	(6.27)[2]

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

BFB Injection Date: 2/21/08

BFB Injection Time: 1716

BFB File ID: 5022114

Tekmar Purge Flow: 13.5 mL/min

Vacuum: 4.77×10^{-6} torr

IS/S Std.#:	1576-298	Exp. Date: 5-20-08
BCM	300521	
1,4-DFB	1106928	
CB-d5	791985	

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

Verify 176/174 m/z Ratio: $\left(\frac{902812}{917852}\right) \times 100 = 98.362$

NOAH Cart #: _____ **File #:** _____

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1008623\ )}{(\ 1106928\ )} \times \frac{(\ 25.0\ )}{(\ 0.91671\ )} = 24.849$

File ID:	5022119
Compound:	toluene-d8
Initials:	CB

Reported Result 24.849

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5022114	BFB Tune Check	14746-1921	50 psig	2.5 µl	100	2/21/08	1716	CB	
2	X	15	ICAL Level 1	15746-2163	0.2 psig	0.2 ml			1743	CB	
3	✓	16	2		0.5 psig	0.5 ml			1811	CB	1149, 2219
4	✓	17	3		2.0 psig	2.0 ml			1839	CB	
5	✓	18	4		25 psig	25 ml			1907	CB	
6	✓	19	5		50 psig	50 ml			1935	CB	CCV
7	✓	20	6		100 psig	100 ml			2004	CB	
8	✓	21	7	8	200 psig	200 ml			2036	CB	
9	X	22	System Blank	12941	Humid	200mL	↓	↓	2137	CB	

Signature

2/22/08
Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	5022123	~~L~~ System Blank	12941	Humid	200mL	1.00	2/22/08	0829	CB	
11	✓	24	ICAL Level 1	1576-263	200ppbv-0.2ppbv	0.2 mL	↓	↓	0857	CB	t14g221a
12	✓	25	LCS-1 (200ppbv)	1576-260	50ppbv	50mL			0939	CB	ICAL LCS
13	✓	26	System Blank	12941	Humid	200mL			1027	CB	
14	✓	27	ICAL Level 3	1576-299	200ppbv-2ppbv	2mL			1108	CB	
15	✓	28	↓ 5	↓	200ppbv-50ppbv	50mL			1136	CB	t14g221g sp17a
16	✓	↓ 29	↓ 7	↓	200ppbv	200mL	↓	↓	1209	CB	CCV
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

CB 2/22/08

0600

Comments: Flow controller S/N #AA920318 Actual: 25.1 mL/min

NIST Flowmeter S/N #200-7744 exp. 8/31/08 Nominal: 22.6 mL/min CB 2/22/08

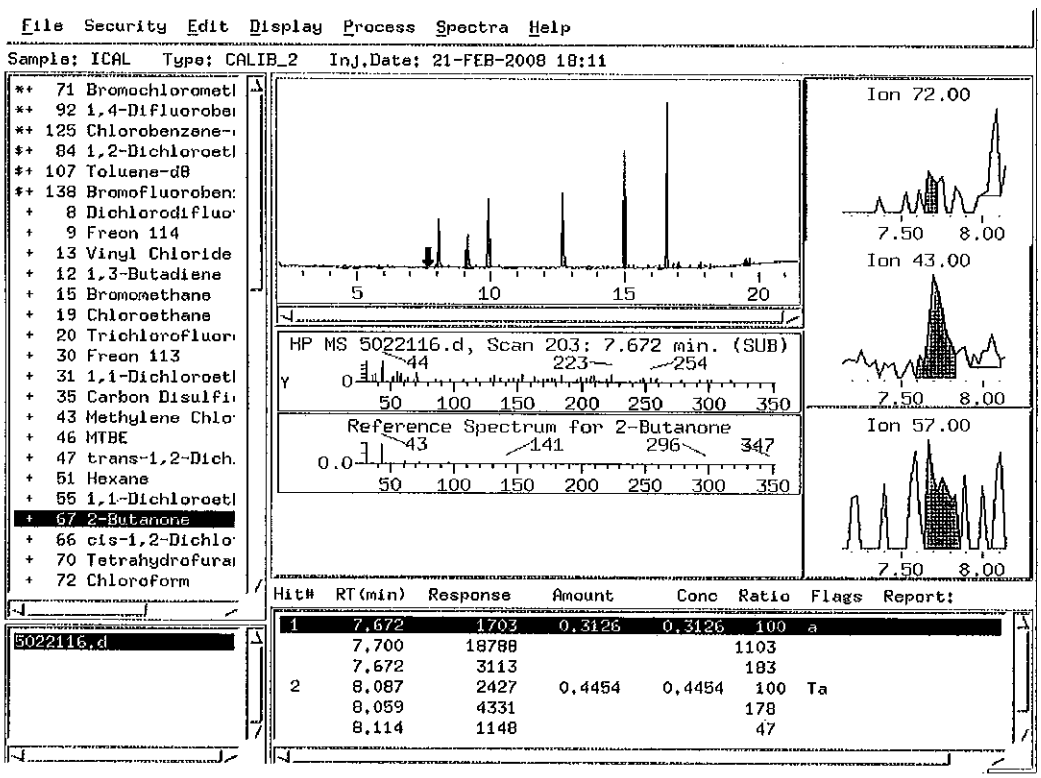
(from 2/15/08)

Signature

2/22/08
Date

Before

Poor integration



CB 2/22/08

Integration

lit Peak

eak Tailing

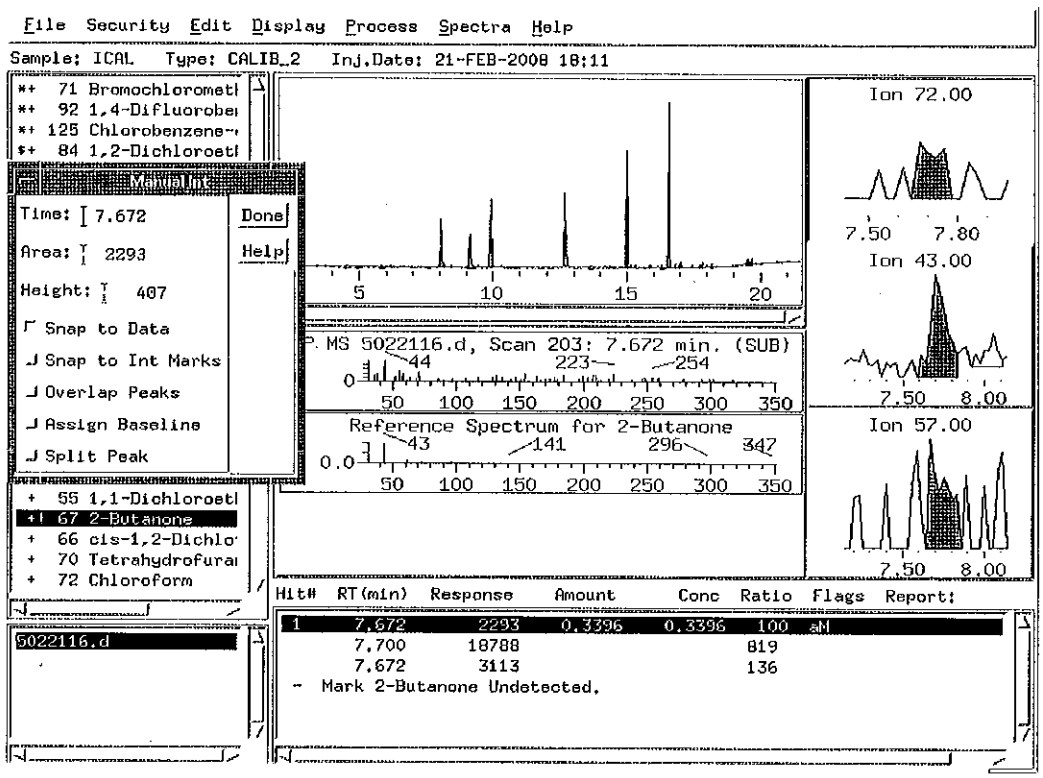
ckground Subtraction

n In

After

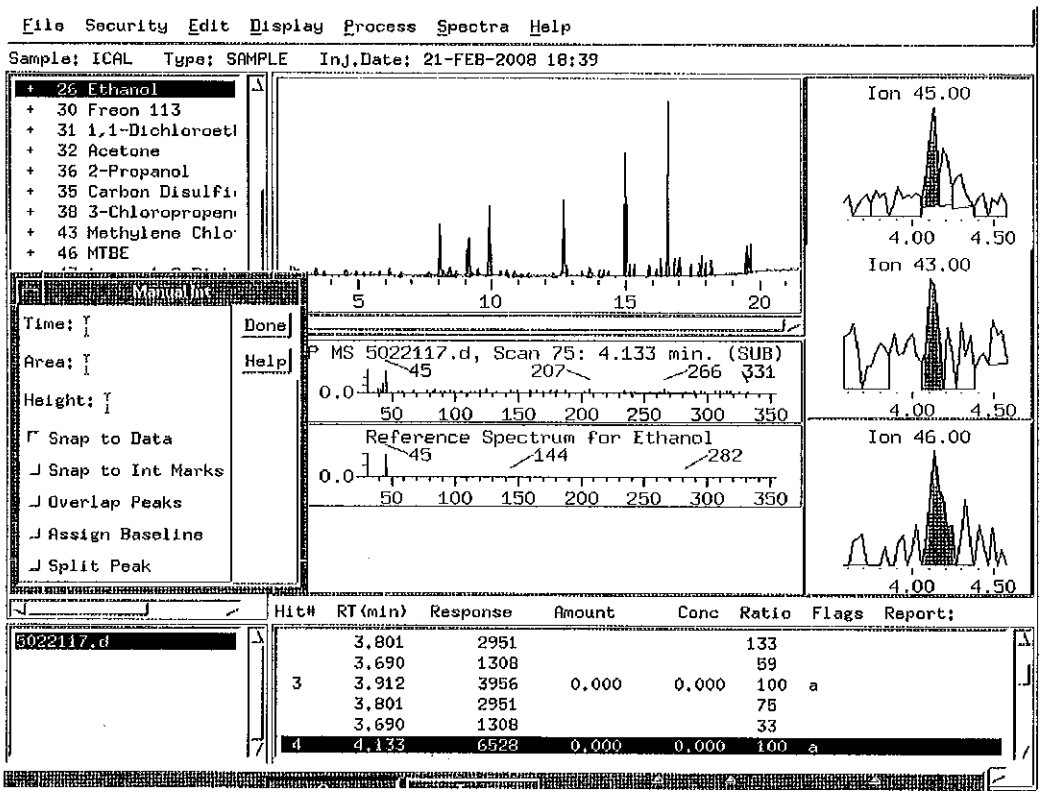
Merged Peak ✓

PR 2/22/08



poor integration

Before



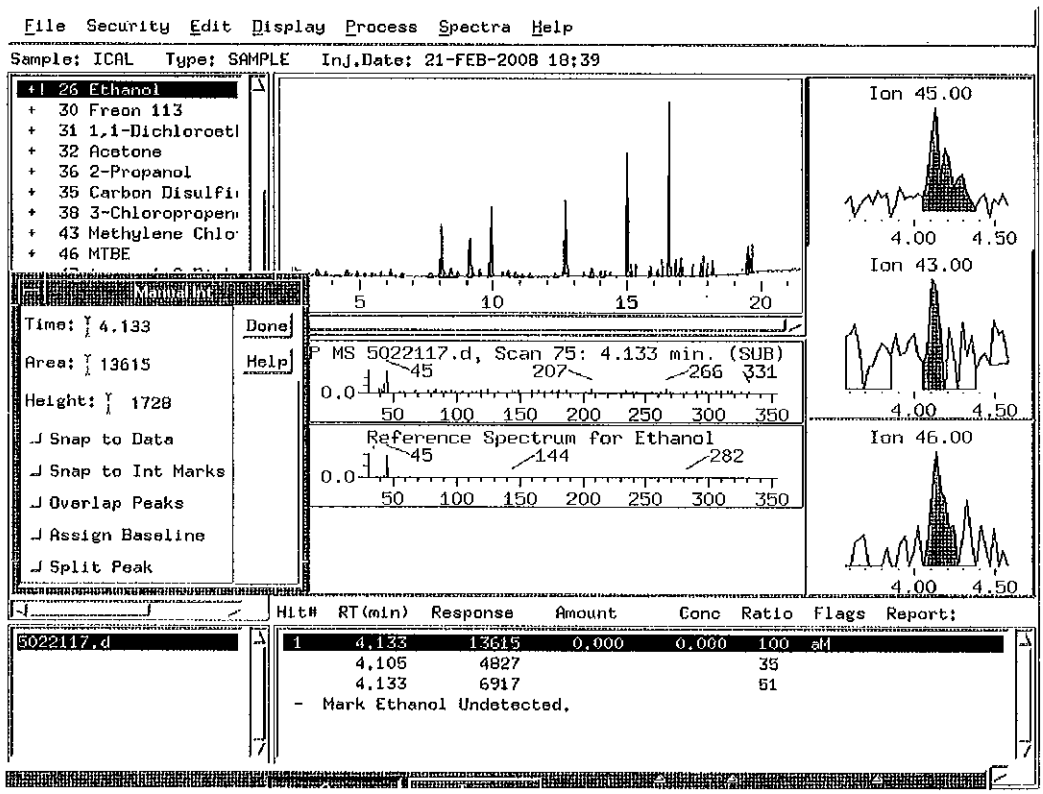
CB 2/22/08

...ntegration
...k Peak
...ak Tailing
...kground Subtraction
...n In

After

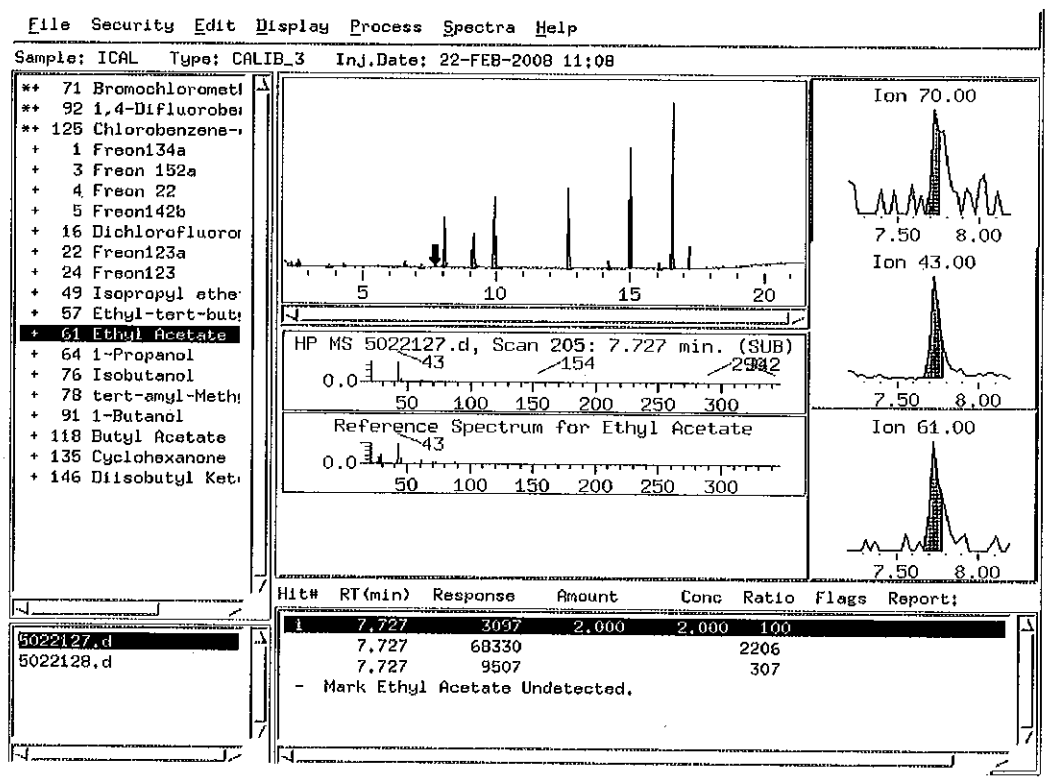
Merged Peak ✓

MV 2/22/08



poor integration

Before



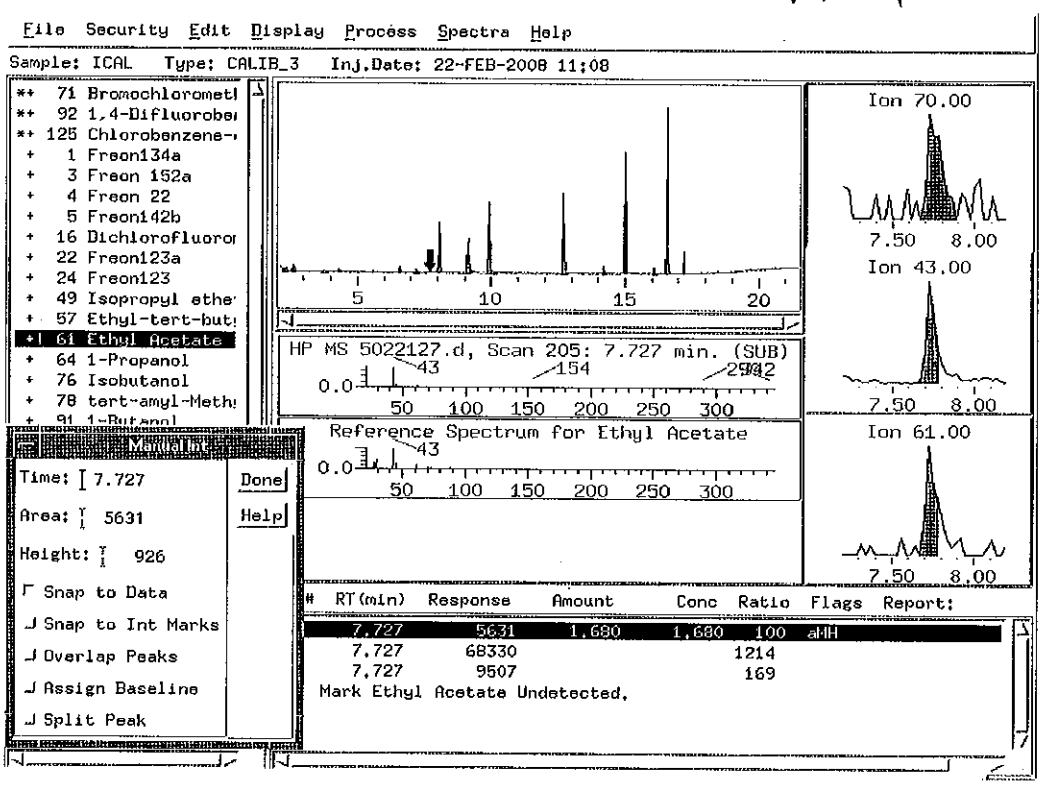
CB 2/22/08

After

Integration
Peak
ak Tailing
kground Subtraction
In

Merged Peak ✓

M 2/22/08



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/5-21feb.b/5022125.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-FEB-2008 09:39
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-260
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:18 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 20:36 Cal File: 5022121.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.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	337540	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	265634			50.14- 110.14	78.70
8.059	8.059 (1.000)	49	825165			195.69- 255.69	244.46
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1241560	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	197223			0.00- 46.49	15.89
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	872849	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	521646			0.00- 30.00	59.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	616977	24.0538	24.054	80.00- 120.00	100.00
9.137	9.110 (1.134)	67	308605			0.00- 30.00	50.02
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1150805	25.2779	25.278	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	127403			0.00- 30.00	11.07

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	794153			0.00- 30.00	69.01
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	563109	24.7974	24.797	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	824901			114.32- 174.32	146.49
16.575	16.575 (1.105)	176	559149			66.86- 126.86	99.30
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1424273	50.3438	50.344	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	944885			0.00- 30.00	66.34
2.253	2.253 (0.280)	39	975190			0.00- 30.00	68.47
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	2614294	49.3906	49.391	80.00- 120.00	100.00
2.308	2.308 (0.286)	87	824049			0.00- 30.00	31.52
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1989212	50.5828	50.583	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	647056			0.77- 60.77	32.53
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1827605	47.9820	47.982	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	520106			0.00- 30.00	28.46
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1428736	52.1354	52.135	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	417114			0.00- 30.00	29.19
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1404484	48.8940	48.894	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1700811			0.00- 30.00	121.10
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	826323	54.7812	54.781	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	755387			64.26- 124.26	91.42
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	700161	52.0661	52.066	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	254591			0.00- 30.00	36.36
3.414	3.414 (0.424)	66	212267			0.00- 30.00	30.32
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2852931	48.5230	48.523	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1815066			34.03- 94.03	63.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.077 (0.509)	45	642545	53.6148	53.615	80.00- 120.00	100.00
4.078	4.077 (0.506)	43	119413			0.00- 30.00	18.58
4.105	4.077 (0.509)	46	248979			0.00- 30.00	38.75
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1699297	56.7187	56.719	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1051266			35.01- 95.01	61.86
4.520	4.520 (0.561)	101	2098076			95.51- 155.51	123.47
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2297749	55.3506	55.350	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1010413			11.33- 71.33	43.97
4.575	4.575 (0.568)	98	618233			0.00- 56.95	26.91
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	657290	48.3817	48.382	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2427244			0.00- 30.00	369.28
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2874700	49.8322	49.832	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	653485			0.00- 30.00	22.73
4.907	4.907 (0.609)	59	87424			0.00- 30.00	3.04
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2568802	51.6685	51.668	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.183 (0.643)	76	445684	49.6213	49.621	80.00- 120.00	100.00
5.184	5.183 (0.643)	41	2164278			0.00- 30.00	485.61
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1933225	53.2932	53.293	80.00- 120.00	100.00
5.460	5.432 (0.677)	84	797787			10.90- 70.90	41.27
5.432	5.432 (0.674)	51	587136			0.00- 30.00	30.37
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1106385	44.5752	44.575	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	363717			2.68- 62.68	32.87
5.764	5.764 (0.715)	41	409814			0.00- 30.00	37.04
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	989148	49.0887	49.089	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1986760			169.56- 229.56	200.86
5.819	5.819 (0.722)	98	627621			0.00- 30.00	63.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2447581	50.3772	50.377	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1787547			0.00- 30.00	73.03
6.151	6.151 (0.763)	86	292223			0.00- 30.00	11.94
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	226324	49.2383	49.238	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	4013556			0.00- 30.00	1773.37
6.649	6.649 (0.825)	42	319035			0.00- 30.00	140.96
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2130619	50.9506	50.951	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	638231			0.53- 60.53	29.96
67 2-Butanone					CAS #: 78-93-3		
7.672	7.644 (0.952)	72	398544	51.2055	51.206	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	3042064			728.37- 788.37	763.29
7.644	7.644 (0.949)	57	212219			0.00- 30.00	53.25
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1641340	52.5229	52.523	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	897931			22.68- 82.68	54.71
7.617	7.617 (0.945)	98	567042			4.36- 64.36	34.55
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1781656	45.9106	45.910	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	361034			0.00- 49.90	20.26
8.031	8.031 (0.997)	72	380879			0.00- 30.00	21.38
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1824780	48.9971	48.997	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1131019			36.02- 96.02	61.98
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2008533	50.7958	50.796	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1294498			32.83- 92.83	64.45
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1176632	50.0082	50.008	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2232482			163.35- 223.35	189.73
8.418	8.418 (1.045)	41	1349409			86.00- 146.00	114.68
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1981129	48.0059	48.006	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2032033			73.89- 133.89	102.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	6409013	50.0907	50.091	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2101289			0.00- 30.00	32.79
9.082	9.082 (1.127)	41	1859611			0.00- 30.00	29.02
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2317326	49.4998	49.500	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	544379			0.00- 30.00	23.49
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.275 (0.936)	62	1689155	47.6296	47.630	80.00- 120.00	100.00
9.276	9.275 (0.936)	64	507243			0.00- 30.00	30.03
90 Heptane					CAS #: 142-82-5		
9.497	9.469 (0.958)	100	307724	49.8388	49.839	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2728092			0.00- 30.00	886.54
9.469	9.469 (0.955)	71	868415			0.00- 30.00	282.21
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1018741	45.9894	45.989	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1058176			74.19- 134.19	103.87
10.326	10.326 (1.042)	97	661811			33.93- 93.93	64.96
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	987169	47.6953	47.695	80.00- 120.00	100.00
10.852	10.824 (1.095)	62	721083			44.46- 104.46	73.05
10.824	10.824 (1.092)	41	872164			62.39- 122.39	88.35
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	508481	47.3333	47.333	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	534257			71.59- 131.59	105.07
11.073	11.073 (1.117)	57	178042			0.00- 30.00	35.01
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1701219	46.5258	46.526	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1123537			34.84- 94.84	66.04
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1176826	48.8673	48.867	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	368296			1.70- 61.70	31.30
12.317	12.317 (1.243)	39	1029401			59.73- 119.73	87.47
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.593 (1.271)	58	923306	48.2020	48.202	80.00- 120.00	100.00
12.594	12.593 (1.271)	43	2978148			0.00- 30.00	322.55
12.594	12.593 (1.271)	85	307345			0.00- 30.00	33.29

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	2584113	52.7081	52.708	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1548925			29.86- 89.86	59.94
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1331254	49.6742	49.674	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	424622			1.85- 61.85	31.90
13.368	13.340 (0.891)	39	997975			49.57- 109.57	74.97
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	870634	51.0360	51.036	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	520630			31.93- 91.93	59.80
13.644	13.644 (0.910)	83	682550			48.00- 108.00	78.40
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.699 (0.913)	166	1143004	48.3207	48.321	80.00- 120.00	100.00
13.700	13.699 (0.913)	129	991055			57.53- 117.53	86.71
13.700	13.699 (0.913)	131	972713			54.24- 114.24	85.10
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1262878	48.2261	48.226	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2780913			200.78- 260.78	220.20
14.031	14.031 (0.935)	100	195430			0.00- 30.00	15.47
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1676246	49.5452	49.545	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1302723			0.00- 30.00	77.72
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1379459	47.9009	47.901	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1295461			64.59- 124.59	93.91
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2143262	49.0132	49.013	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	695678			2.21- 62.21	32.46
15.027	15.027 (1.002)	77	1272361			29.88- 89.88	59.37
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1129965	49.4313	49.431	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3644015			0.00- 30.00	322.49
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1420775	48.2250	48.225	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2999909			0.00- 30.00	211.15
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1334147	50.0826	50.082	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	2970988			197.93- 257.93	222.69
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2078927	49.2055	49.206	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1198733			30.31- 90.31	57.66
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1397666	49.2152	49.215	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	738324			21.79- 81.79	52.83
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1758329	49.9349	49.935	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1128300			35.08- 95.08	64.17
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4352187	49.0340	49.034	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1222454			0.00- 58.06	28.09
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4026626	49.1639	49.164	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1816368			0.00- 30.00	45.11
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3309259	47.7400	47.740	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1486709			13.48- 73.48	44.93
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2072313	46.9642	46.964	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1298884			0.00- 30.00	62.68
17.764	17.764 (1.184)	111	945316			0.00- 30.00	45.62
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2579369	48.0468	48.047	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1620368			0.00- 30.00	62.82
17.847	17.847 (1.190)	111	1174517			0.00- 30.00	45.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4082286	55.9863	55.986	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	779718			0.00- 30.00	19.10
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2140707	46.7847	46.785	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1352501			33.59- 93.59	63.18
18.206	18.206 (1.214)	111	941492			13.36- 73.36	43.98

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	1568123	44.7657	44.766	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1524473			64.71- 124.71	97.22
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1363274	43.5448	43.545	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	836414			30.71- 90.71	61.35
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4745286	50.3913	50.391	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1112056			0.00- 30.00	23.43
16.824	16.824 (1.122)	105	182818			0.00- 30.00	3.85
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4401292	49.7347	49.735	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1150982			0.00- 30.00	26.15
16.326	16.326 (1.088)	51	681110			0.00- 30.00	15.48
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5468329	50.1433	50.143	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	680798			0.00- 30.00	12.45
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.570 (0.691)	59	980298	39.5821	39.582	80.00- 120.00	100.00
5.571	5.570 (0.691)	41	284823			0.00- 30.00	29.05
5.571	5.570 (0.691)	57	105215			0.00- 30.00	10.73
11 Butane					CAS #: 106-97-8		
2.695	2.667 (0.334)	58	367760	46.6041	46.604	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	3193056			0.00- 30.00	868.24
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2467077	49.2897	49.290	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1390106			0.00- 30.00	56.35
3.414	3.414 (0.424)	72	110471			0.00- 30.00	4.48
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1453977	49.6995	49.700	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	731250			0.00- 30.00	50.29
10.547	10.547 (1.064)	55	1920118			0.00- 30.00	132.06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022125.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	337540	12.32
92 1,4-Difluorobenze	1106928	664157	1549699	1241560	12.16
125 Chlorobenzene-d5	791985	475191	1108779	872849	10.21

		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: 22-Feb-2008 13:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	49.391	98.78	70-130
9 Freon 114	50.000	50.583	101.17	70-130
10 Chloromethane	50.000	47.982	95.96	70-130
13 Vinyl Chloride	50.000	52.135	104.27	70-130
12 1,3-Butadiene	50.000	48.894	97.79	60-140
15 Bromomethane	50.000	54.781	109.56	70-130
19 Chloroethane	50.000	52.066	104.13	70-130
20 Trichlorofluoromet	50.000	48.523	97.05	70-130
26 Ethanol	50.000	53.615	107.23	60-140
30 Freon 113	50.000	56.719	113.44	70-130
31 1,1-Dichloroethene	50.000	55.350	110.70	70-130
35 Carbon Disulfide	50.000	51.668	103.34	60-140
32 Acetone	50.000	48.382	96.76	60-140
36 2-Propanol	50.000	49.832	99.66	60-140
38 3-Chloropropene	50.000	49.621	99.24	60-140
43 Methylene Chloride	50.000	53.293	106.59	70-130
46 MTBE	50.000	44.575	89.15	60-140
47 trans-1,2-Dichloro	50.000	49.089	98.18	60-140
51 Hexane	50.000	50.377	100.75	60-140
55 1,1-Dichloroethane	50.000	50.951	101.90	70-130
66 cis-1,2-Dichloroet	50.000	52.523	105.05	70-130
67 2-Butanone	50.000	51.206	102.41	60-140
70 Tetrahydrofuran	50.000	45.910	91.82	60-140
72 Chloroform	50.000	48.997	97.99	70-130
74 Cyclohexane	50.000	50.008	100.02	60-140
75 1,1,1-Trichloroeth	50.000	50.796	101.59	70-130
56 Vinyl Acetate	50.000	49.238	98.48	60-140
77 Carbon Tetrachlori	50.000	48.006	96.01	70-130
80 2,2,4-Trimethylpen	50.000	50.091	100.18	60-140
81 Benzene	50.000	49.500	99.00	70-130
85 1,2-Dichloroethane	50.000	47.630	95.26	70-130
90 Heptane	50.000	49.839	99.68	60-140
93 Trichloroethene	50.000	45.989	91.98	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	47.695	95.39	70-130
99 1,4-Dioxane	50.000	47.333	94.67	60-140
100 Bromodichlorometha	50.000	46.526	93.05	60-140
103 cis-1,3-Dichloropr	50.000	48.867	97.73	70-130
106 4-Methyl-2-pentano	50.000	48.202	96.40	60-140
108 Toluene	50.000	52.708	105.42	70-130
113 trans-1,3-Dichloro	50.000	49.674	99.35	70-130
114 1,1,2-Trichloroeth	50.000	51.036	102.07	70-130
116 Tetrachloroethene	50.000	48.321	96.64	70-130
119 2-Hexanone	50.000	48.226	96.45	60-140
120 Dibromochlorometha	50.000	49.545	99.09	60-140
122 1,2-Dibromoethane	50.000	47.901	95.80	70-130
126 Chlorobenzene	50.000	49.013	98.03	70-130
128 Ethyl Benzene	50.000	49.431	98.86	70-130
130 m,p-Xylene	50.000	48.225	96.45	70-130
132 o-Xylene	50.000	50.082	100.17	70-130
133 Styrene	50.000	49.206	98.41	70-130
134 Bromoform	50.000	49.215	98.43	60-140
136 Cumene	50.000	49.735	99.47	60-140
141 1,1,2,2-Tetrachlor	50.000	49.935	99.87	70-130
142 Propylbenzene	50.000	50.391	100.78	60-140
144 4-Ethyltoluene	50.000	49.034	98.07	60-140
147 1,3,5-Trimethylben	50.000	49.164	98.33	70-130
152 1,2,4-Trimethylben	50.000	47.740	95.48	70-130
155 1,3-Dichlorobenzen	50.000	46.964	93.93	70-130
156 1,4-Dichlorobenzen	50.000	48.047	96.09	70-130
157 alpha-Chlorotoluen	50.000	55.986	111.97	70-130
159 1,2-Dichlorobenzen	50.000	46.785	93.57	70-130
163 1,2,4-Trichloroben	50.000	44.766	89.53	70-130
164 Hexachlorobutadien	50.000	43.545	87.09	70-130
6 Propylene	50.000	50.344	100.69	70-130
165 Naphthalene	50.000	50.143	100.29	60-140
11 Butane	50.000	46.604	93.21	70-130
17 Isopentane	50.000	49.290	98.58	70-130
94 Methyl Cyclohexane	50.000	49.700	99.40	70-130

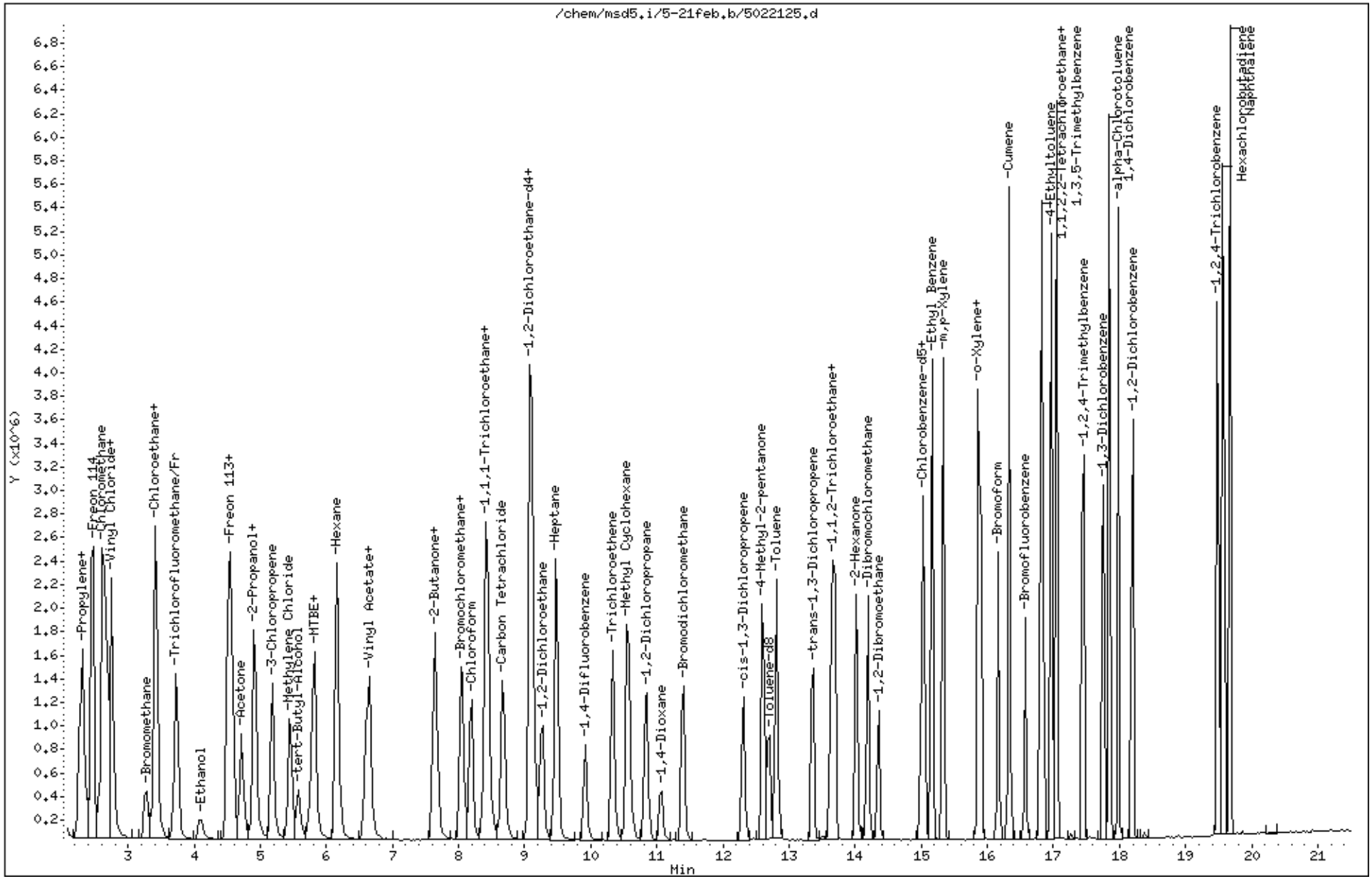
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.054	96.22	70-130
$ 107 Toluene-d8	25.000	25.278	101.11	70-130
$ 138 Bromofluorobenzene	25.000	24.797	99.19	70-130

0109

Data File: /chem/msd5.i/5-21feb.b/5022125.d
Date : 22-FEB-2008 09:39
Client ID: LCS-1
Sample Info: 50mL #1576-260

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022124.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 22-FEB-2008 08:57
Operator : cb Inst ID: msd5.i
Smp Info : 0.2mL #1576-263
Misc Info : 0.2ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:16 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 08:57 Cal File: 5022124.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	321061	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	247286			50.14- 110.14	77.02
8.059	8.059 (1.000)	49	761009			195.69- 255.69	237.03
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1183930	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	196538			0.00- 46.49	16.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	824488	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	498032			0.00- 30.00	60.41
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	574266	25.0000		70.00- 130.00	100.00(a)
9.137	9.137 (1.134)	67	266987			0.00- 30.00	46.49
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1092516	25.0000		70.00- 130.00	100.00(a)
12.704	12.704 (1.282)	70	120866			0.00- 30.00	11.06

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	710209			0.00- 30.00	65.01
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	536354	25.0000		70.00- 130.00	100.00(a)
16.575	16.575 (1.105)	95	786920			114.32- 174.32	146.72
16.575	16.575 (1.105)	176	514570			66.86- 126.86	95.94
72 Chloroform						CAS #: 67-66-3	
8.197	8.197 (1.017)	83	8742	0.20000	0.2000	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	7345			36.02- 96.02	84.02
81 Benzene						CAS #: 71-43-2	
9.110	9.110 (0.919)	78	9527	0.20000	0.2000	70.00- 130.00	100.00
9.110	9.110 (0.919)	77	4013			0.00- 30.00	42.12
133 Styrene						CAS #: 100-42-5	
15.911	15.911 (1.061)	104	8779	0.20000	0.2000	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	6485			30.31- 90.31	73.87
136 Cumene						CAS #: 98-82-8	
16.326	16.326 (1.088)	105	19199	0.20000	0.2000	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5231			0.00- 30.00	27.25
16.326	16.326 (1.088)	51	2693			0.00- 30.00	14.03

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: 5022124.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 0.2ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	321061	6.83
92 1,4-Difluorobenze	1106928	664157	1549699	1183930	6.96
125 Chlorobenzene-d5	791985	475191	1108779	824488	4.10

		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.

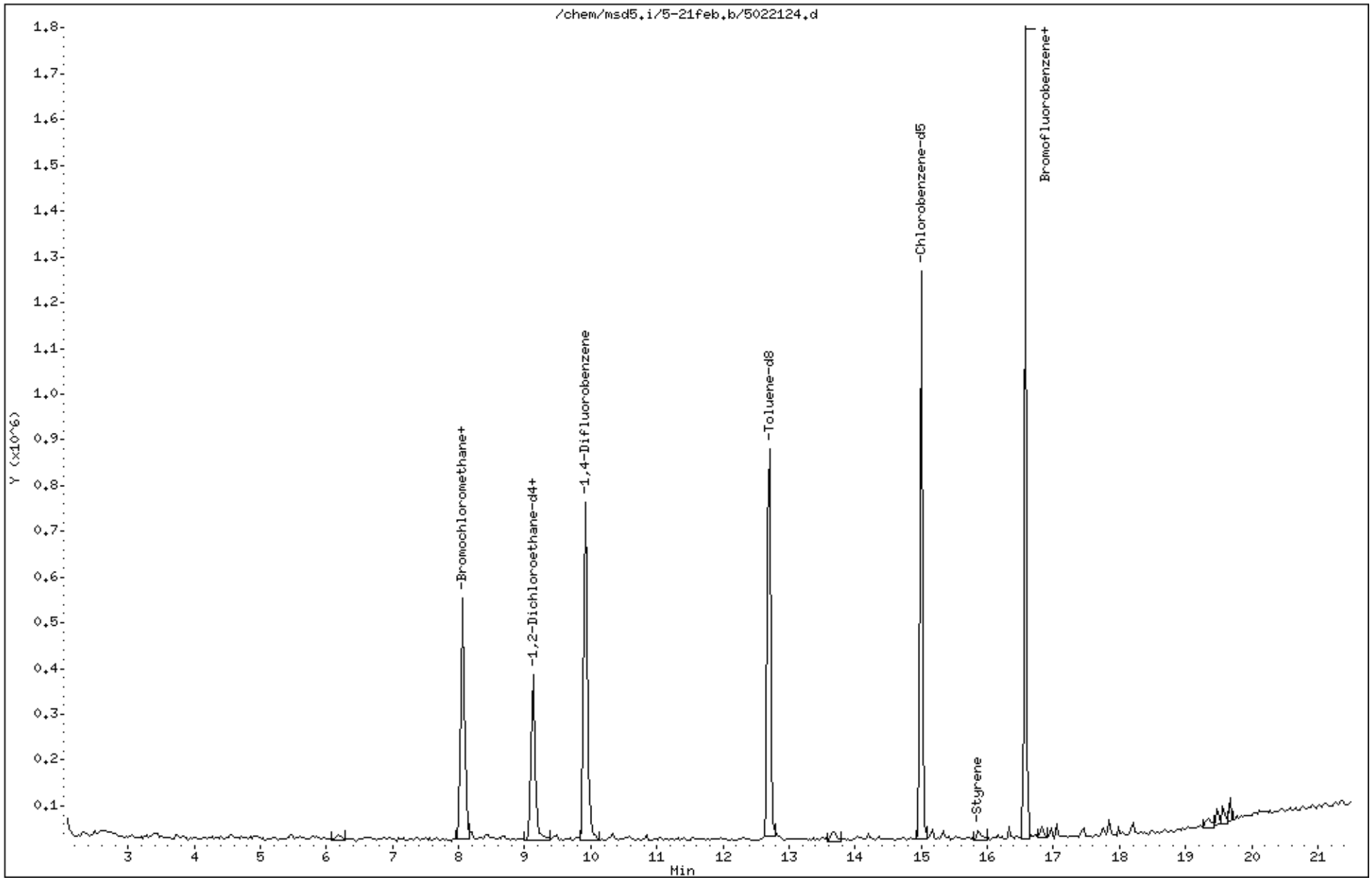
0113

Data File: /chem/msd5.i/5-21feb.b/5022124.d
Date : 22-FEB-2008 08:57
Client ID: Level 1
Sample Info: 0.2mL #1576-263

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022116.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 21-FEB-2008 18:11
Operator : cb Inst ID: msd5.i
Smp Info : 0.5mL #1576-263
Misc Info : 0.5ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:16 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 18:11 Cal File: 5022116.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Low.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	292788	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	207227			50.14- 110.14	70.78
8.059	8.059 (1.000)	49	676151			195.69- 255.69	230.94
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.912	9.912 (1.000)	114	1032163	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	169758			0.00- 46.49	16.45
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.999	14.999 (1.000)	117	749499	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	450946			0.00- 30.00	60.17
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
9.137	9.137 (1.134)	65	530277	25.0000	25.000	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	232755			0.00- 30.00	43.89
$ 107 Toluene-d8						CAS #: 2037-26-5	
12.704	12.704 (1.282)	98	954817	25.0000	25.000	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	109429			0.00- 30.00	11.46

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	631777			0.00- 30.00	66.17
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	501094	25.0000	25.000	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	684522			114.32- 174.32	136.61
16.575	16.575 (1.105)	176	468503			66.86- 126.86	93.50
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	18426	0.50000	0.5000	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	5939			0.00- 30.00	32.23
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	14619	0.50000	0.5000	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	6127			0.77- 60.77	41.91
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	9565	0.50000	0.5000	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	4560			0.00- 30.00	47.67
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	11440	0.50000	0.5000	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	14274			0.00- 30.00	124.77
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	5200	0.50000	0.5000	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	6962			64.26- 124.26	133.88
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	4160	0.50000	0.5000	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	2265			0.00- 30.00	54.45
3.414	3.414 (0.424)	66	2816			0.00- 30.00	67.69
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	21489	0.50000	0.5000	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	16991			34.03- 94.03	79.07
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	10106	0.50000	0.5000	70.00- 130.00	100.00
4.492	4.492 (0.557)	153	8968			35.01- 95.01	88.74
4.520	4.520 (0.561)	101	11382			95.51- 155.51	112.63
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	14698	0.50000	0.5000	70.00- 130.00	100.00
4.603	4.603 (0.571)	96	6095			11.33- 71.33	41.47
4.575	4.575 (0.568)	98	7739			0.00- 56.95	52.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	16898	0.50000	0.5000	70.00- 130.00	100.00
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	13096	0.50000	0.5000	70.00- 130.00	100.00
5.488	5.488 (0.681)	84	5620			10.90- 70.90	42.91
5.432	5.432 (0.674)	51	3699			0.00- 30.00	28.25
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	8108	0.50000	0.5000	70.00- 130.00	100.00
5.737	5.737 (0.712)	57	4545			2.68- 62.68	56.06
5.764	5.764 (0.715)	41	2351			0.00- 30.00	29.00
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	8592	0.50000	0.5000	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	14749			169.56- 229.56	171.66
5.820	5.820 (0.722)	98	4448			0.00- 30.00	51.77
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	19557	0.50000	0.5000	70.00- 130.00	100.00
6.179	6.179 (0.767)	43	12853			0.00- 30.00	65.72
6.179	6.179 (0.767)	86	2438			0.00- 30.00	12.47
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	16291	0.50000	0.5000	70.00- 130.00	100.00
6.621	6.621 (0.822)	65	5834			0.53- 60.53	35.81
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	2292	0.50000	0.5000	70.00- 130.00	100.00(M)
7.700	7.700 (0.955)	43	18788			728.37- 788.37	819.72
7.672	7.672 (0.952)	57	3113			0.00- 30.00	135.82
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	7944	0.50000	0.5000	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	9937			22.68- 82.68	125.09
7.644	7.644 (0.949)	98	4273			4.36- 64.36	53.79
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	19421	0.50000	0.5000	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	4331			0.00- 49.90	22.30
8.087	8.087 (1.003)	72	4628			0.00- 30.00	23.83
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	11984	0.50000	0.3755	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	9006			36.02- 96.02	75.15

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	10989	0.50000	0.5000	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	10418			32.83- 92.83	94.80
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	8485	0.50000	0.5000	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	16246			163.35- 223.35	191.47
8.419	8.419 (1.045)	41	15433			86.00- 146.00	181.89
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	15549	0.50000	0.5000	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	19644			73.89- 133.89	126.34
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	44284	0.50000	0.5000	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	14538			0.00- 30.00	32.83
9.082	9.082 (1.127)	41	16655			0.00- 30.00	37.61
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.919)	78	15888	0.50000	0.4335	70.00- 130.00	100.00(a)
9.110	9.110 (0.919)	77	5729			0.00- 30.00	36.06
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	12576	0.50000	0.5000	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	6390			0.00- 30.00	50.81
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1672	0.50000	0.5000	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	21125			0.00- 30.00	1263.46
9.469	9.469 (0.955)	71	6340			0.00- 30.00	379.19
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	9530	0.50000	0.5000	70.00- 130.00	100.00
10.354	10.354 (1.045)	130	8845			74.19- 134.19	92.81
10.326	10.326 (1.042)	97	6116			33.93- 93.93	64.18
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	8360	0.50000	0.5000	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	6443			44.46- 104.46	77.07
10.852	10.852 (1.095)	41	7752			62.39- 122.39	92.73
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	13114	0.50000	0.5000	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	8666			34.84- 94.84	66.08
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	7809	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.317	12.317 (1.243)	77	3846			1.70- 61.70	49.25
12.317	12.317 (1.243)	39	9902			59.73- 119.73	126.80
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	5657	0.50000	0.5000	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	17621			0.00- 30.00	311.49
12.621	12.621 (1.273)	85	2815			0.00- 30.00	49.76
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	13776	0.50000	0.5000	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	9859			29.86- 89.86	71.57
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	9200	0.50000	0.5000	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	3726			1.85- 61.85	40.50
13.368	13.368 (0.891)	39	7234			49.57- 109.57	78.63
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	5232	0.50000	0.5000	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	3475			31.93- 91.93	66.42
13.644	13.644 (0.910)	83	6647			48.00- 108.00	127.05
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	8363	0.50000	0.5000	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	6853			57.53- 117.53	81.94
13.700	13.700 (0.913)	131	7311			54.24- 114.24	87.42
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	11833	0.50000	0.5000	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	8077			0.00- 30.00	68.26
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	10076	0.50000	0.5000	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	11425			64.59- 124.59	113.39
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	17059	0.50000	0.5000	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	5798			2.21- 62.21	33.99
15.027	15.027 (1.002)	77	17703			29.88- 89.88	103.78
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	8935	0.50000	0.5000	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	30447			0.00- 30.00	340.76
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	12331	0.50000	0.5000	70.00- 130.00	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	21742			0.00- 30.00	176.32
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	10493	0.50000	0.5000	70.00- 130.00	100.00
15.856	15.856 (1.057)	91	19922			197.93- 257.93	189.86
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	15121	0.50000	0.4311	70.00- 130.00	100.00(a)
15.912	15.912 (1.061)	78	10551			30.31- 90.31	69.78
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	9169	0.50000	0.5000	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	5526			21.79- 81.79	60.27
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	11566	0.50000	0.5000	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	8573			35.08- 95.08	74.12
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	28927	0.50000	0.5000	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	9043			0.00- 58.06	31.26
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	30122	0.50000	0.5000	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	11150			0.00- 30.00	37.02
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	24249	0.50000	0.5000	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	11209			13.48- 73.48	46.22
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	16453	0.50000	0.5000	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	12485			0.00- 30.00	75.88
17.764	17.764 (1.184)	111	7327			0.00- 30.00	44.53
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	19153	0.50000	0.5000	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	13364			0.00- 30.00	69.77
17.847	17.847 (1.190)	111	9112			0.00- 30.00	47.57
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	17396	0.50000	0.5000	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	3658			0.00- 30.00	21.03
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	18577	0.50000	0.5000	70.00- 130.00	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	11667			33.59- 93.59	62.80
18.206	18.206 (1.214)	111	9325			13.36- 73.36	50.20
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	31073	0.50000	0.5000	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	5811			0.00- 30.00	18.70
16.824	16.824 (1.122)	105	2916			0.00- 30.00	9.38
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	27010	0.50000	0.3824	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	7533			0.00- 30.00	27.89
16.326	16.326 (1.088)	51	5750			0.00- 30.00	21.29
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	10310	0.50000	0.5000	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	3999			0.00- 30.00	38.79
10.575	10.575 (1.067)	55	14453			0.00- 30.00	140.18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 22-Feb-2008 13:16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022116.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 0.5ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	292788	-2.57
92 1,4-Difluorobenze	1106928	664157	1549699	1032163	-6.75
125 Chlorobenzene-d5	791985	475191	1108779	749499	-5.36

		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.

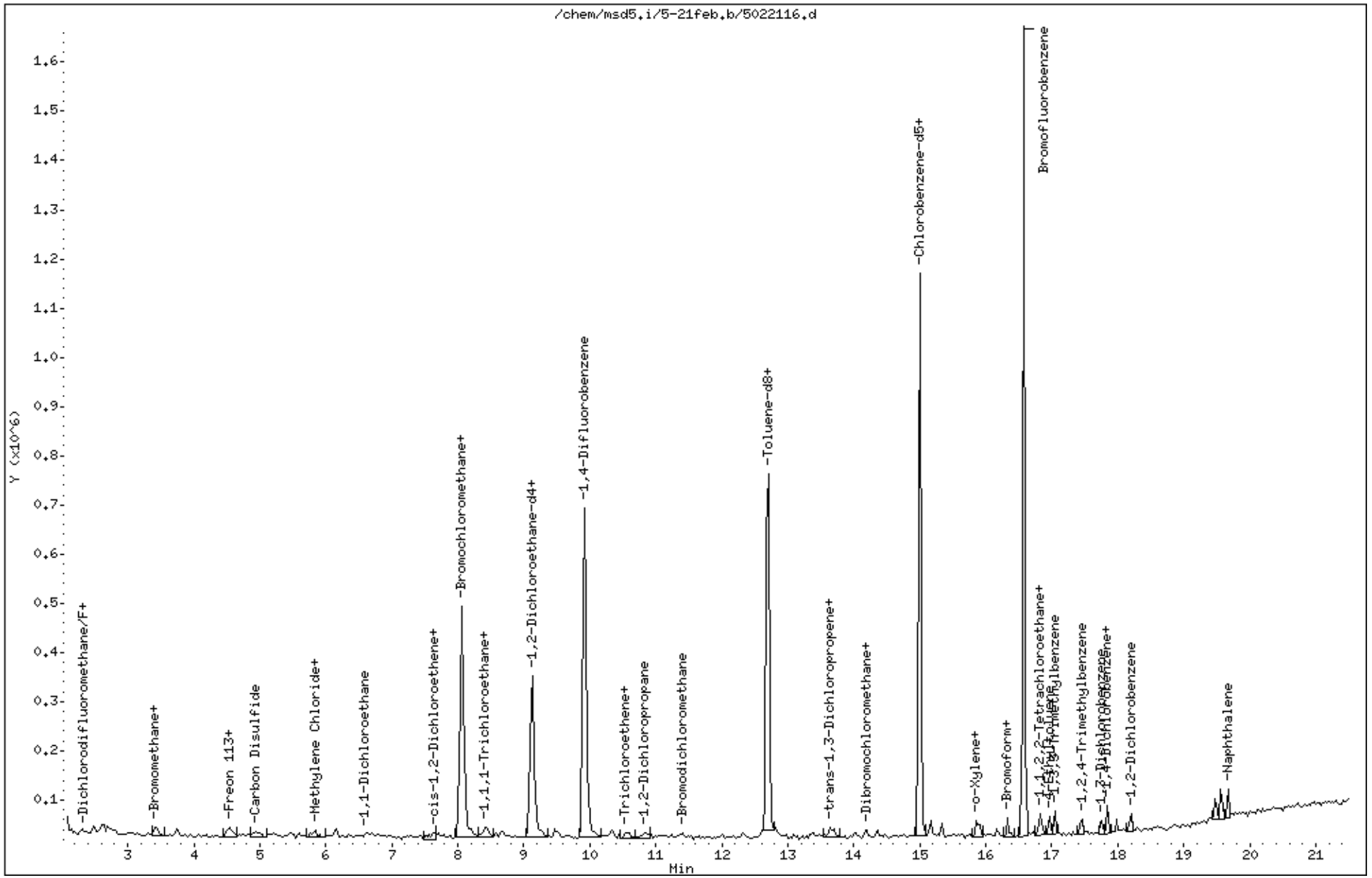
0122

Data File: /chem/msd5.i/5-21feb.b/5022116.d
Date : 21-FEB-2008 18:11
Client ID: Level 2
Sample Info: 0.5mL #1576-263

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022127.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 22-FEB-2008 11:08
Operator : cb Inst ID: msd5.i
Smp Info : 2mL #1576-299
Misc Info : 50ppbv (200ppbv) sp17a
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:20 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 11:08 Cal File: 5022127.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp17a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	316447	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	261279			50.18- 110.18	82.57
8.059	8.059 (1.000)	49	784711			211.98- 271.98	247.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1204394	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	193194			0.00- 46.71	16.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	844910	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	509860			0.00- 30.00	60.34
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	29488	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.290)	69	2354			0.00- 30.00	7.98
3 Freon 152a					CAS #: 75-37-6		
2.280	2.280 (0.283)	65	22849	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.290)	51	140583			0.00- 30.00	615.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.336	2.336 (0.290)	67	9967	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.290)	51	137189			0.00- 30.00	1376.43
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	68485	2.00000	2.000	70.00- 130.00	100.00
2.529	2.529 (0.314)	45	26793			0.00- 30.00	39.12
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.746	3.746 (0.465)	67	50194	2.00000	2.000	70.00- 130.00	100.00(T)
3.746	3.746 (0.465)	69	17283			0.00- 30.00	34.43
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
22 Freon123a					CAS #: 354-23-4		
4.271	4.271 (0.530)	117	26972	2.00000	2.000	70.00- 130.00	100.00
4.299	4.299 (0.533)	67	36486			0.00- 30.00	135.27
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	3772	2.00000	2.000	70.00- 130.00	100.00
4.409	4.409 (0.547)	133	2752			0.00- 30.00	72.96
4.271	4.271 (0.530)	85	20389			0.00- 30.00	540.54
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	142794	2.00000	2.000	70.00- 130.00	100.00
6.594	6.594 (0.818)	87	21395			0.00- 30.00	14.98
6.594	6.594 (0.818)	59	13986			0.00- 30.00	9.79
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	57343	2.00000	2.000	70.00- 130.00	100.00
7.202	7.202 (0.894)	87	17021			0.00- 30.00	29.68
7.202	7.202 (0.894)	41	20427			0.00- 30.00	35.62
61 Ethyl Acetate					CAS #: 141-78-6		
7.727	7.727 (0.959)	70	5630	2.00000	2.000	70.00- 130.00	100.00(MH)
7.727	7.727 (0.959)	43	68330			0.00- 30.00	1213.68
7.727	7.727 (0.959)	61	9507			0.00- 30.00	168.86
64 1-Propanol					CAS #: 71-23-8		
6.898	6.898 (0.856)	42	9603	2.00000	2.000	70.00- 130.00	100.00
6.926	6.926 (0.859)	59	7652			0.00- 30.00	79.68
6.870	6.870 (0.852)	41	4583			0.00- 30.00	47.72
76 Isobutanol					CAS #: 78-83-1		
9.110	9.110 (0.919)	43	31769	2.00000	2.000	70.00- 130.00	100.00
9.110	9.110 (0.919)	41	22008			0.00- 30.00	69.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.151)	73	48454	2.00000	2.000	70.00- 130.00	100.00
9.276	9.276 (1.151)	87	14527			0.00- 30.00	29.98
9.276	9.276 (1.151)	55	27821			0.00- 30.00	57.42
91 1-Butanol					CAS #: 71-36-3		
10.409	10.409 (1.050)	56	16447	2.00000	2.000	70.00- 130.00	100.00
10.382	10.382 (1.047)	41	11272			0.00- 30.00	68.54
10.409	10.409 (1.050)	43	12263			0.00- 30.00	74.56
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	37559	2.00000	2.000	70.00- 130.00	100.00
14.197	14.197 (1.432)	73	10632			0.00- 30.00	28.31
14.197	14.197 (1.432)	43	96062			0.00- 30.00	255.76
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	50705	2.00000	2.000	70.00- 130.00	100.00
16.520	16.520 (1.101)	98	16458			0.00- 30.00	32.46
16.520	16.520 (1.101)	42	35062			0.00- 30.00	69.15
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	147971	2.00000	2.000	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	80119			21.47- 81.47	54.15

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Report Date: 22-Feb-2008 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022127.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv) sp17a

Calibration Date: 22-FEB-2008
Calibration Time: 11:36
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	316829	190097	443561	316447	-0.12
92 1,4-Difluorobenze	1201581	720949	1682213	1204394	0.23
125 Chlorobenzene-d5	856914	514148	1199680	844910	-1.40

		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.

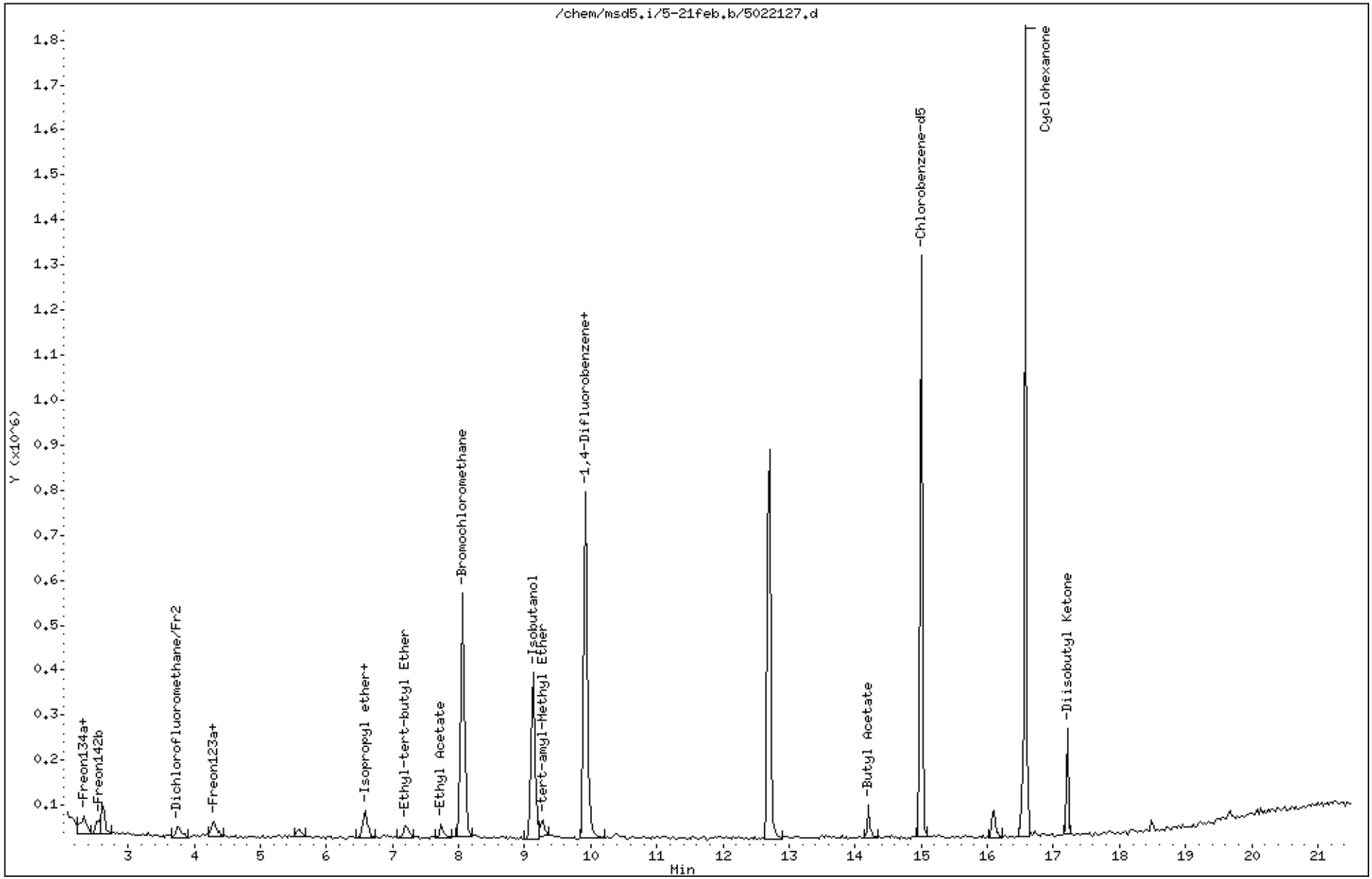
0127

Data File: /chem/msd5.i/5-21feb.b/5022127.d
Date : 22-FEB-2008 11:08
Client ID: Level 3
Sample Info: 2mL #1576-299

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022117.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 21-FEB-2008 18:39
Operator : cb Inst ID: msd5.i
Smp Info : 2mL #1576-263
Misc Info : 2ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:16 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 18:39 Cal File: 5022117.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	284112	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	221942			50.14- 110.14	78.12
8.059	8.059 (1.000)	49	680567			195.69- 255.69	239.54
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1019417	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	181490			0.00- 46.49	17.80
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	764440	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	461218			0.00- 30.00	60.33
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	545066	25.0000	25.720	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	237080			0.00- 30.00	43.50
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	933939	25.0000	24.879	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	114215			0.00- 30.00	12.23

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	634011			0.00- 30.00	67.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	499818	25.0000	24.721	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	725599			114.32- 174.32	145.17
16.575	16.575 (1.105)	176	469278			66.86- 126.86	93.89
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	42599	2.00000	2.000	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	29779			0.00- 30.00	69.91
2.280	2.280 (0.283)	39	30600			0.00- 30.00	71.83
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	70713	2.00000	1.989	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	24747			0.00- 30.00	35.00
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	51831	2.00000	1.910	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	18756			0.77- 60.77	36.19
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	52517	2.00000	2.000	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	13306			0.00- 30.00	25.34
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	36905	2.00000	1.994	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	15057			0.00- 30.00	40.80
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	40167	2.00000	1.900	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	51624			0.00- 30.00	128.52
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	16294	2.00000	1.787	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	20241			64.26- 124.26	124.22
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	17283	2.00000	2.068	70.00- 130.00	100.00
3.442	3.442 (0.427)	49	6769			0.00- 30.00	39.17
3.469	3.469 (0.430)	66	6050			0.00- 30.00	35.01
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	85178	2.00000	2.021	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	53955			34.03- 94.03	63.34

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	13614	2.00000	2.000	70.00- 130.00	100.00(M)
4.105	4.105 (0.509)	43	4827			0.00- 30.00	35.46
4.133	4.133 (0.513)	46	6917			0.00- 30.00	50.81
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	44789	2.00000	2.132	70.00- 130.00	100.00
4.548	4.548 (0.564)	153	23804			35.01- 95.01	53.15
4.520	4.520 (0.561)	101	47313			95.51- 155.51	105.64
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	55661	2.00000	1.975	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	29966			11.33- 71.33	53.84
4.575	4.575 (0.568)	98	14911			0.00- 56.95	26.79
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	17067	2.00000	2.000	70.00- 130.00	100.00
4.741	4.741 (0.588)	43	58380			0.00- 30.00	342.06
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	68521	2.00000	2.000	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	20797			0.00- 30.00	30.35
4.962	4.962 (0.616)	59	3382			0.00- 30.00	4.94
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	65720	2.00000	2.002	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	12024	2.00000	2.000	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	56276			0.00- 30.00	468.03
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	56256	2.00000	2.101	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	22164			10.90- 70.90	39.40
5.460	5.460 (0.677)	51	15134			0.00- 30.00	26.90
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	23649	2.00000	1.716	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	10372			2.68- 62.68	43.86
5.764	5.764 (0.715)	41	12758			0.00- 30.00	53.95
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	29094	2.00000	1.864	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	55753			169.56- 229.56	191.63
5.847	5.847 (0.726)	98	16887			0.00- 30.00	58.04

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	56352	2.00000	1.704	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	52835			0.00- 30.00	93.76
6.151	6.151 (0.763)	86	8970			0.00- 30.00	15.92
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	56538	2.00000	1.888	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	16632			0.53- 60.53	29.42
67 2-Butanone					CAS #: 78-93-3		
7.727	7.727 (0.959)	72	10773	2.00000	2.191	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	75023			728.37- 788.37	696.40
7.672	7.672 (0.952)	57	5791			0.00- 30.00	53.75
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	45186	2.00000	2.378	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	23723			22.68- 82.68	52.50
7.644	7.644 (0.949)	98	13451			4.36- 64.36	29.77
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	52955	2.00000	1.650	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	10755			0.00- 49.90	20.31
8.059	8.059 (1.000)	72	14267			0.00- 30.00	26.94
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	50986	2.00000	1.749	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	33011			36.02- 96.02	64.75
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	53112	2.00000	2.218	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	35610			32.83- 92.83	67.05
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	32090	2.00000	1.974	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	57490			163.35- 223.35	179.15
8.391	8.391 (1.041)	41	38560			86.00- 146.00	120.16
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	5748	2.00000	2.000	70.00- 130.00	100.00
6.677	6.677 (0.828)	43	77668			0.00- 30.00	1351.22
6.704	6.704 (0.832)	42	8314			0.00- 30.00	144.64
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	51948	2.00000	1.850	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	56334			73.89- 133.89	108.44

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	179835	2.00000	2.045	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	55655			0.00- 30.00	30.95
9.110	9.110 (1.130)	41	59714			0.00- 30.00	33.20
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	62691	2.00000	1.813	70.00- 130.00	100.00
9.110	9.110 (0.919)	77	16603			0.00- 30.00	26.48
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	53423	2.00000	2.072	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	15266			0.00- 30.00	28.58
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	10108	2.00000	2.419	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	77981			0.00- 30.00	771.48
9.497	9.497 (0.958)	71	25069			0.00- 30.00	248.01
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	30470	2.00000	1.789	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	27438			74.19- 134.19	90.05
10.326	10.326 (1.042)	97	20062			33.93- 93.93	65.84
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	27067	2.00000	1.802	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	20628			44.46- 104.46	76.21
10.852	10.852 (1.095)	41	27892			62.39- 122.39	103.05
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	12004	2.00000	2.000	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	18801			71.59- 131.59	156.62
11.073	11.073 (1.117)	57	6695			0.00- 30.00	55.77
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	48515	2.00000	1.934	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	31975			34.84- 94.84	65.91
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	30386	2.00000	1.985	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	9455			1.70- 61.70	31.12
12.317	12.317 (1.243)	39	30468			59.73- 119.73	100.27
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	25983	2.00000	2.150	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	83125			0.00- 30.00	319.92
12.621	12.621 (1.273)	85	8036			0.00- 30.00	30.93

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	69809	2.00000	2.248	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	36313			29.86- 89.86	52.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	32217	2.00000	1.848	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	12605			1.85- 61.85	39.13
13.368	13.368 (0.891)	39	31252			49.57- 109.57	97.00
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	23887	2.00000	2.112	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	17495			31.93- 91.93	73.24
13.644	13.644 (0.910)	83	21945			48.00- 108.00	91.87
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	35517	2.00000	2.040	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	29453			57.53- 117.53	82.93
13.700	13.700 (0.913)	131	25883			54.24- 114.24	72.87
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	31551	2.00000	2.000	70.00- 130.00	100.00
14.031	14.031 (0.935)	43	75176			200.78- 260.78	238.27
14.031	14.031 (0.935)	100	7132			0.00- 30.00	22.60
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	42652	2.00000	1.876	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	38503			0.00- 30.00	90.27
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	38661	2.00000	1.939	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	35072			64.59- 124.59	90.72
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	58288	2.00000	1.823	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	20817			2.21- 62.21	35.71
15.027	15.027 (1.002)	77	45642			29.88- 89.88	78.30
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	31111	2.00000	1.842	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	98874			0.00- 30.00	317.81
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	38185	2.00000	1.726	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	85989			0.00- 30.00	225.19
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	32295	2.00000	1.720	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	75384			197.93- 257.93	233.42
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	56966	2.00000	1.708	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	32192			30.31- 90.31	56.51
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	36864	2.00000	1.985	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	19992			21.79- 81.79	54.23
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	52172	2.00000	2.100	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	37271			35.08- 95.08	71.44
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	130851	2.00000	2.103	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	36076			0.00- 58.06	27.57
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	113396	2.00000	1.920	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	46982			0.00- 30.00	41.43
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	97258	2.00000	1.983	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	45048			13.48- 73.48	46.32
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	70670	2.00000	2.051	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	45252			0.00- 30.00	64.03
17.764	17.764 (1.184)	111	33317			0.00- 30.00	47.14
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	78897	2.00000	2.010	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	48388			0.00- 30.00	61.33
17.847	17.847 (1.190)	111	34693			0.00- 30.00	43.97
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	94083	2.00000	2.280	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	16568			0.00- 30.00	17.61
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	76086	2.00000	2.004	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	46785			33.59- 93.59	61.49
18.206	18.206 (1.214)	111	35253			13.36- 73.36	46.33

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	62680	2.00000	2.000	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	68752			64.71- 124.71	109.69
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	55866	2.00000	2.000	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	33068			30.71- 90.71	59.19
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	136671	2.00000	2.075	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	34430			0.00- 30.00	25.19
16.824	16.824 (1.122)	105	6546			0.00- 30.00	4.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	124233	2.00000	1.807	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	32352			0.00- 30.00	26.04
16.326	16.326 (1.088)	51	21455			0.00- 30.00	17.27
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	209241	2.00000	2.000	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	29565			0.00- 30.00	14.13
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	42002	2.00000	2.000	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	15445			0.00- 30.00	36.77
5.571	5.571 (0.691)	57	6735			0.00- 30.00	16.03
11 Butane					CAS #: 106-97-8		
2.723	2.723 (0.338)	58	12848	2.00000	2.000	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	84608			0.00- 30.00	658.53
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	63046	2.00000	2.000	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	39307			0.00- 30.00	62.35
3.414	3.414 (0.424)	72	2023			0.00- 30.00	3.21
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	38419	2.00000	1.942	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	21061			0.00- 30.00	54.82
10.548	10.548 (1.064)	55	51874			0.00- 30.00	135.02

QC Flag Legend

M - Compound response manually integrated.

Report Date: 22-Feb-2008 13:16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022117.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 2ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	284112	-5.46
92 1,4-Difluorobenze	1106928	664157	1549699	1019417	-7.91
125 Chlorobenzene-d5	791985	475191	1108779	764440	-3.48

		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

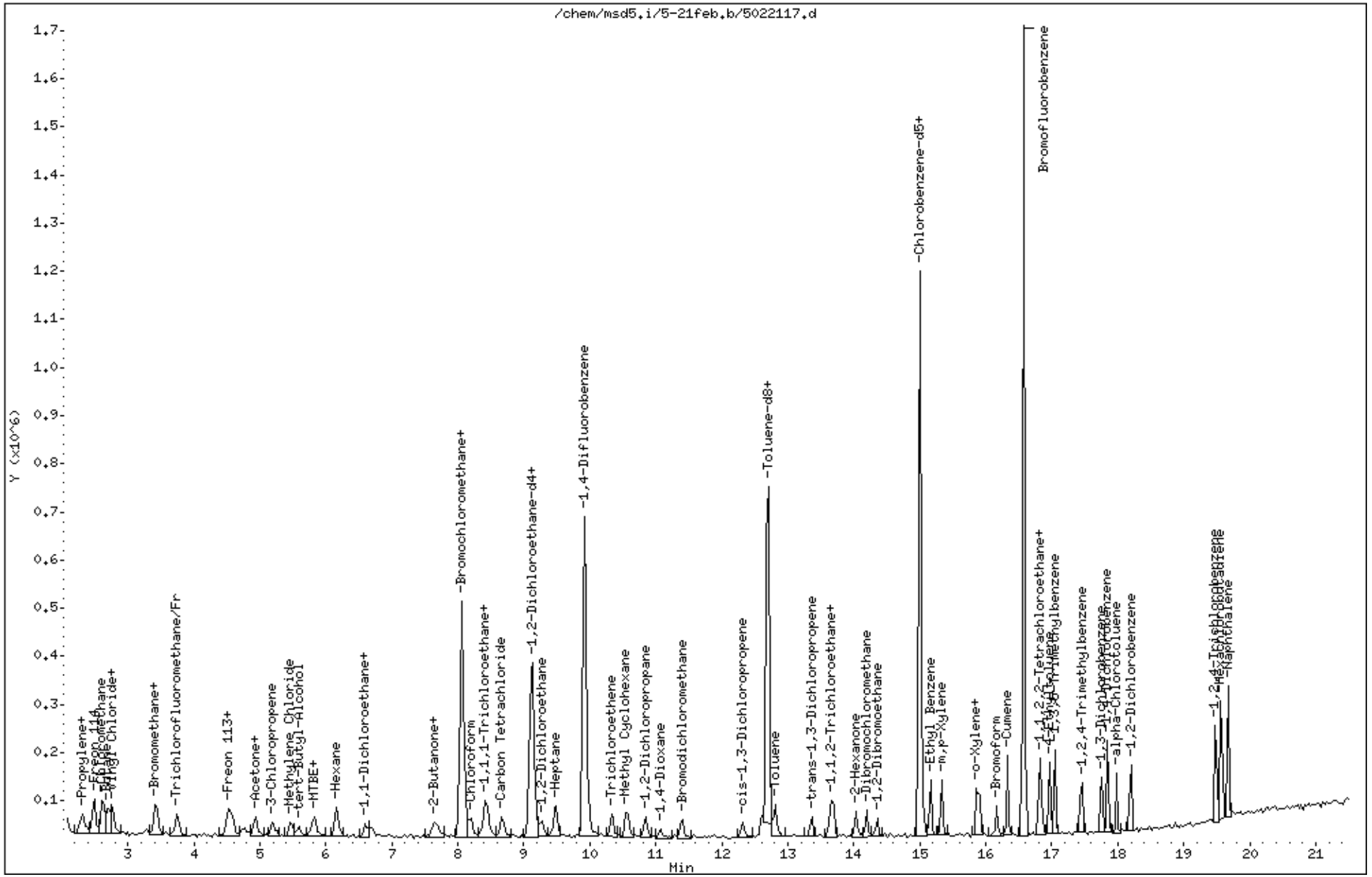
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-21feb.b/5022117.d
Date : 21-FEB-2008 18:39
Client ID: Level 3
Sample Info: 2mL #1576-263

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



0137

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022118.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 21-FEB-2008 19:07
Operator : cb Inst ID: msd5.i
Smp Info : 25mL #1576-263
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 19:07 Cal File: 5022118.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	71 Bromochloromethane					CAS #: 74-97-5		
	8.059	8.059 (1.000)	130	293775	25.0000		70.00- 130.00	100.00
	8.059	8.059 (1.000)	128	212570			50.14- 110.14	72.36
	8.059	8.059 (1.000)	49	683279			195.69- 255.69	232.59
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.912	9.912 (1.000)	114	1061746	25.0000		70.00- 130.00	100.00
	9.912	9.912 (1.000)	88	179201			0.00- 46.49	16.88
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	778793	25.0000		70.00- 130.00	100.00
	14.999	14.999 (1.000)	82	460158			0.00- 30.00	59.09
$	84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.110	9.110 (1.130)	65	544253	25.0000	24.891	70.00- 130.00	100.00
	9.110	9.110 (1.130)	67	257073			0.00- 30.00	47.23
$	107 Toluene-d8					CAS #: 2037-26-5		
	12.704	12.704 (1.282)	98	981379	25.0000	25.067	70.00- 130.00	100.00
	12.704	12.704 (1.282)	70	114769			0.00- 30.00	11.69

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	685906			0.00- 30.00	69.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	504533	25.0000	24.661	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	746802			114.32- 174.32	148.02
16.575	16.575 (1.105)	176	503984			66.86- 126.86	99.89
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	666148	25.0000	27.374	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	437257			0.00- 30.00	65.64
2.253	2.253 (0.280)	39	453207			0.00- 30.00	68.03
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	1341008	25.0000	31.634	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	438150			0.00- 30.00	32.67
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	968155	25.0000	30.618	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	316105			0.77- 60.77	32.65
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	881650	25.0000	28.250	70.00- 130.00	100.00
2.557	2.557 (0.317)	52	268753			0.00- 30.00	30.48
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	677766	25.0000	31.097	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	196424			0.00- 30.00	28.98
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	679938	25.0000	28.762	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	804057			0.00- 30.00	118.25
15 Bromomethane					CAS #: 74-83-9		
3.248	3.248 (0.403)	94	385860	25.0000	33.755	70.00- 130.00	100.00
3.248	3.248 (0.403)	96	364465			64.26- 124.26	94.46
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	357042	25.0000	33.934	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	126987			0.00- 30.00	35.57
3.414	3.414 (0.424)	66	101498			0.00- 30.00	28.43
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1454261	25.0000	30.020	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	929257			34.03- 94.03	63.90

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	287519	25.0000	31.017	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	55486			0.00- 30.00	19.30
4.077	4.077 (0.506)	46	124854			0.00- 30.00	43.42
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	739147	25.0000	30.375	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	457220			35.01- 95.01	61.86
4.520	4.520 (0.561)	101	904523			95.51- 155.51	122.37
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	1029175	25.0000	31.049	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	423353			11.33- 71.33	41.14
4.575	4.575 (0.568)	98	284143			0.00- 56.95	27.61
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	326522	25.0000	29.840	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	1183227			0.00- 30.00	362.37
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1352744	25.0000	30.217	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	318956			0.00- 30.00	23.58
4.907	4.907 (0.609)	59	40224			0.00- 30.00	2.97
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1223806	25.0000	31.423	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	210749	25.0000	28.778	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	1048296			0.00- 30.00	497.41
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	872447	25.0000	28.997	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	348232			10.90- 70.90	39.91
5.432	5.432 (0.674)	51	262428			0.00- 30.00	30.08
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	639438	25.0000	35.475	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	222926			2.68- 62.68	34.86
5.764	5.764 (0.715)	41	260927			0.00- 30.00	40.81
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	464305	25.0000	27.389	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	973482			169.56- 229.56	209.66
5.819	5.819 (0.722)	98	309741			0.00- 30.00	66.71

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	1210195	25.0000	31.087	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	889967			0.00- 30.00	73.54
6.151	6.151 (0.763)	86	134239			0.00- 30.00	11.09
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1014049	25.0000	29.684	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	293686			0.53- 60.53	28.96
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	188448	25.0000	31.928	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	1504681			728.37- 788.37	798.46
7.644	7.644 (0.949)	57	101505			0.00- 30.00	53.86
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	812274	25.0000	33.942	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	422153			22.68- 82.68	51.97
7.617	7.617 (0.945)	98	275518			4.36- 64.36	33.92
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	885005	25.0000	26.093	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	172766			0.00- 49.90	19.52
8.031	8.031 (0.997)	72	191108			0.00- 30.00	21.59
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	891891	25.0000	28.296	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	569518			36.02- 96.02	63.86
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1016072	25.0000	33.811	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	646694			32.83- 92.83	63.65
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	575365	25.0000	30.479	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1126139			163.35- 223.35	195.73
8.418	8.418 (1.045)	41	664699			86.00- 146.00	115.53
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	98065	25.0000	28.448	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1879352			0.00- 30.00	1916.44
6.649	6.649 (0.825)	42	152523			0.00- 30.00	155.53
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1029711	25.0000	31.125	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1060177			73.89- 133.89	102.96

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		
9.082	9.082 (1.127)	57	3198031	25.0000	30.972	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	1027977			0.00- 30.00	32.14
9.082	9.082 (1.127)	41	949558			0.00- 30.00	29.69
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1144159	25.0000	29.753	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	256317			0.00- 30.00	22.40
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	851119	25.0000	29.102	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	254053			0.00- 30.00	29.85
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	152662	25.0000	30.924	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1372709			0.00- 30.00	899.18
9.469	9.469 (0.955)	71	408807			0.00- 30.00	267.79
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	509294	25.0000	27.359	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	545517			74.19- 134.19	107.11
10.326	10.326 (1.042)	97	347761			33.93- 93.93	68.28
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	493240	25.0000	29.000	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	374765			44.46- 104.46	75.98
10.824	10.824 (1.092)	41	482321			62.39- 122.39	97.79
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	253015	25.0000	30.908	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	272185			71.59- 131.59	107.58
11.073	11.073 (1.117)	57	95000			0.00- 30.00	37.55
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	889857	25.0000	30.392	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	556999			34.84- 94.84	62.59
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	583476	25.0000	31.694	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	179842			1.70- 61.70	30.82
12.317	12.317 (1.243)	39	534339			59.73- 119.73	91.58
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	479068	25.0000	32.419	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	1469186			0.00- 30.00	306.68
12.594	12.594 (1.271)	85	151558			0.00- 30.00	31.64

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	1244754	25.0000	32.618	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	770439			29.86- 89.86	61.89
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	676632	25.0000	32.429	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	217859			1.85- 61.85	32.20
13.340	13.340 (0.889)	39	526325			49.57- 109.57	77.79
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	446020	25.0000	32.730	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	272523			31.93- 91.93	61.10
13.644	13.644 (0.910)	83	360301			48.00- 108.00	80.78
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	606424	25.0000	30.459	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	517335			57.53- 117.53	85.31
13.672	13.672 (0.912)	131	491232			54.24- 114.24	81.00
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	619033	25.0000	30.320	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1438033			200.78- 260.78	232.30
14.031	14.031 (0.935)	100	107848			0.00- 30.00	17.42
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	867385	25.0000	32.120	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	664515			0.00- 30.00	76.61
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	725326	25.0000	31.243	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	690542			64.59- 124.59	95.20
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1080175	25.0000	29.908	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	360020			2.21- 62.21	33.33
15.027	15.027 (1.002)	77	661687			29.88- 89.88	61.26
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	590519	25.0000	30.525	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	1900484			0.00- 30.00	321.83
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	751508	25.0000	30.005	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1599071			0.00- 30.00	212.78
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	688951	25.0000	31.404	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	1561934			197.93- 257.93	226.71
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1064082	25.0000	29.462	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	631013			30.31- 90.31	59.30
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	720269	25.0000	32.423	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	366449			21.79- 81.79	50.88
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	909949	25.0000	31.374	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	582516			35.08- 95.08	64.02
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2305651	25.0000	31.585	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	652026			0.00- 58.06	28.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2134213	25.0000	31.122	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	944725			0.00- 30.00	44.27
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1749247	25.0000	30.886	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	752947			13.48- 73.48	43.04
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1082542	25.0000	28.615	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	682973			0.00- 30.00	63.09
17.764	17.764 (1.184)	111	482188			0.00- 30.00	44.54
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1343780	25.0000	30.142	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	865172			0.00- 30.00	64.38
17.847	17.847 (1.190)	111	616649			0.00- 30.00	45.89
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	1945358	25.0000	36.049	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	372505			0.00- 30.00	19.15
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1097508	25.0000	27.152	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	714355			33.59- 93.59	65.09
18.206	18.206 (1.214)	111	476416			13.36- 73.36	43.41

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	780113	25.0000	24.713	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	720236			64.71- 124.71	92.32
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	716998	25.0000	25.097	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	449227			30.71- 90.71	62.65
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2451091	25.0000	31.663	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	537326			0.00- 30.00	21.92
16.824	16.824 (1.122)	105	98418			0.00- 30.00	4.02
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2280934	25.0000	30.278	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	586592			0.00- 30.00	25.72
16.326	16.326 (1.088)	51	349798			0.00- 30.00	15.34
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2441935	25.0000	23.910	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	308452			0.00- 30.00	12.63
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	680876	25.0000	27.819	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	190604			0.00- 30.00	27.99
5.571	5.571 (0.691)	57	71405			0.00- 30.00	10.49
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	182337	25.0000	26.168	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1531900			0.00- 30.00	840.15
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1202930	25.0000	29.808	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	698551			0.00- 30.00	58.07
3.414	3.414 (0.424)	72	50488			0.00- 30.00	4.20
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	719516	25.0000	30.837	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	350427			0.00- 30.00	48.70
10.547	10.547 (1.064)	55	999944			0.00- 30.00	138.97

Report Date: 22-Feb-2008 13:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022118.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	293775	-2.24
92 1,4-Difluorobenze	1106928	664157	1549699	1061746	-4.08
125 Chlorobenzene-d5	791985	475191	1108779	778793	-1.67

		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/5-21feb.b/5022118.d

Date : 21-FEB-2008 19:07

Client ID: Level 4

Sample Info: 25mL #1576-263

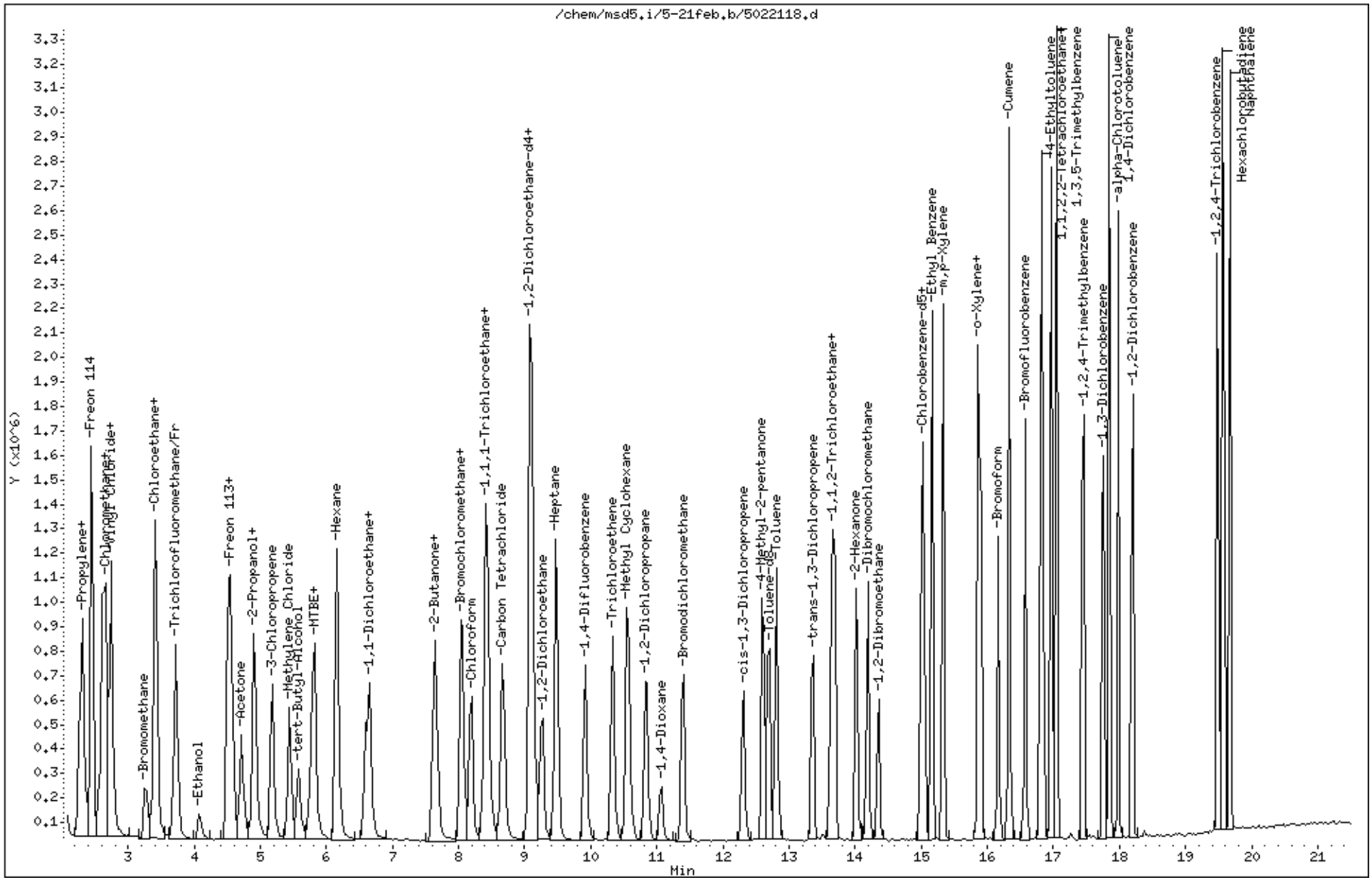
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0147



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022128.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 22-FEB-2008 11:36
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-299
Misc Info : 50ppbv (200ppbv) sp17a
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:20 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 11:36 Cal File: 5022128.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp17a.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	316829	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	254020			50.18- 110.18	80.18
8.059	8.059 (1.000)	49	766652			211.98- 271.98	241.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1201581	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	200768			0.00- 46.71	16.71
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	856914	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	523970			31.15- 91.15	61.15
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	986346	50.0000	57.198	80.00- 120.00	100.00
2.336	2.336 (0.290)	69	111974			0.00- 41.35	11.35
3 Freon 152a					CAS #: 75-37-6		
2.253	2.253 (0.280)	65	715724	50.0000	55.584	80.00- 120.00	100.00
2.336	2.336 (0.290)	51	4353887			578.32- 638.32	608.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.336	2.336 (0.290)	67	277288	50.0000	52.640	80.00- 120.00	100.00
2.336	2.336 (0.290)	51	4329321			1531.31-1591.31	1561.31
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	2265205	50.0000	56.923	80.00- 120.00	100.00
2.529	2.529 (0.314)	45	681126			0.07- 60.07	30.07
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.718	3.718 (0.461)	67	1732812	50.0000	57.970	80.00- 120.00	100.00(T)
3.718	3.718 (0.461)	69	516234			0.00- 59.79	29.79
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
22 Freon123a					CAS #: 354-23-4		
4.271	4.271 (0.530)	117	802116	50.0000	54.299	80.00- 120.00	100.00
4.271	4.271 (0.530)	67	1113366			108.80- 168.80	138.80
24 Freon123					CAS #: 306-83-2		
4.382	4.382 (0.544)	83	112787	50.0000	54.434	80.00- 120.00	100.00
4.409	4.409 (0.547)	133	25211			0.00- 52.35	22.35
4.382	4.382 (0.544)	85	97160			56.14- 116.14	86.14
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	5172339	50.0000	59.136	80.00- 120.00	100.00
6.594	6.594 (0.818)	87	757802			0.00- 44.65	14.65
6.594	6.594 (0.818)	59	426440			0.00- 38.24	8.24
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	2427838	50.0000	62.846	80.00- 120.00	100.00
7.202	7.202 (0.894)	87	717340			0.00- 59.55	29.55
7.202	7.202 (0.894)	41	539690			0.00- 52.23	22.23
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	179719	50.0000	56.050	80.00- 120.00	100.00
7.700	7.700 (0.955)	43	3171327			1734.60-1794.60	1764.60
7.700	7.700 (0.955)	61	313725			144.56- 204.56	174.56
64 1-Propanol					CAS #: 71-23-8		
6.787	6.787 (0.842)	42	242645	50.0000	50.236	80.00- 120.00	100.00
6.815	6.815 (0.846)	59	233308			66.15- 126.15	96.15
6.787	6.787 (0.842)	41	170004			40.06- 100.06	70.06
76 Isobutanol					CAS #: 78-83-1		
9.082	9.082 (0.916)	43	1144160	50.0000	59.083	80.00- 120.00	100.00
9.082	9.082 (0.916)	41	824127			42.03- 102.03	72.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.151)	73	1766020	50.0000	59.286	80.00- 120.00	100.00
9.276	9.276 (1.151)	87	473843			0.00- 56.83	26.83
9.276	9.276 (1.151)	55	838944			17.50- 77.50	47.50
91 1-Butanol					CAS #: 71-36-3		
10.354	10.354 (1.045)	56	824761	50.0000	66.784	80.00- 120.00	100.00
10.354	10.354 (1.045)	41	673693			51.68- 111.68	81.68
10.354	10.354 (1.045)	43	524373			33.58- 93.58	63.58
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	1265060	50.0000	57.455	80.00- 120.00	100.00
14.197	14.197 (1.432)	73	296841			0.00- 53.46	23.46
14.197	14.197 (1.432)	43	3228538			225.21- 285.21	255.21
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	1523984	50.0000	54.242	80.00- 120.00	100.00
16.520	16.520 (1.101)	98	431256			0.00- 58.30	28.30
16.520	16.520 (1.101)	42	1168563			46.68- 106.68	76.68
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	4442320	50.0000	54.213	80.00- 120.00	100.00
17.211	17.211 (1.147)	85	2286566			21.47- 81.47	51.47

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022128.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv) sp17a

Calibration Date: 22-FEB-2008
Calibration Time: 11:36
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	316829	190097	443561	316829	0.00
92 1,4-Difluorobenze	1201581	720949	1682213	1201581	0.00
125 Chlorobenzene-d5	856914	514148	1199680	856914	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.

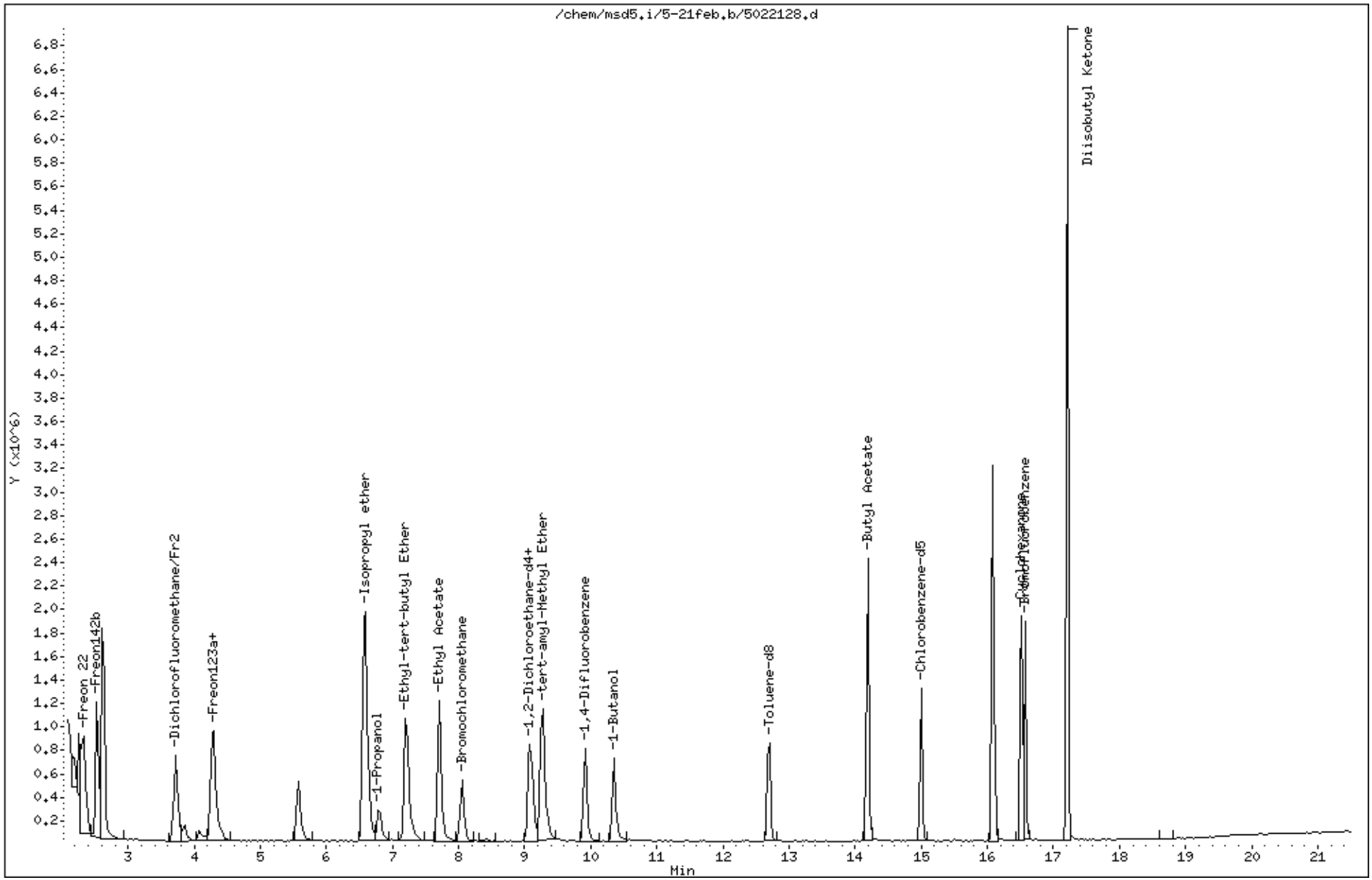
0152

Data File: /chem/msd5.i/5-21feb.b/5022128.d
Date : 22-FEB-2008 11:36
Client ID: Level 5
Sample Info: 50mL #1576-299

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022119.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 21-FEB-2008 19:35
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-263
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 19:35 Cal File: 5022119.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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	300521	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	240850			50.14- 110.14		80.14
8.059	8.059 (1.000)	49	678237			195.69- 255.69		225.69
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1106928	25.0000		80.00- 120.00		100.00
9.911	9.911 (1.000)	88	182508			0.00- 46.49		16.49
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	791985	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	477181			30.25- 90.25		60.25
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	559793	25.0000	25.020	80.00- 120.00		100.00
9.110	9.110 (1.130)	67	277167			19.51- 79.51		49.51
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1008623	25.0000	24.783	80.00- 120.00		100.00
12.704	12.704 (1.282)	70	111151			0.00- 41.02		11.02

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	703314			39.73- 99.73	69.73
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	508243	25.0000	24.569	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	733492			114.32- 174.32	144.32
16.575	16.575 (1.105)	176	492290			66.86- 126.86	96.86
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1298340	50.0000	51.416	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	873262			37.26- 97.26	67.26
2.253	2.253 (0.280)	39	895073			38.94- 98.94	68.94
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	2554384	50.0000	56.393	80.00- 120.00	100.00
2.308	2.308 (0.286)	87	824357			2.27- 62.27	32.27
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1947690	50.0000	57.288	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	599278			0.77- 60.77	30.77
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1724883	50.0000	52.615	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	478526			0.00- 57.74	27.74
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1328332	50.0000	56.855	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	390251			0.00- 59.38	29.38
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1367302	50.0000	54.749	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1624557			88.81- 148.81	118.81
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	746458	50.0000	59.704	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	703615			64.26- 124.26	94.26
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	662780	50.0000	58.208	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	248882			7.55- 67.55	37.55
3.414	3.414 (0.424)	66	199427			0.09- 60.09	30.09
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2752611	50.0000	54.047	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1762524			34.03- 94.03	64.03

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	581364	50.0000	57.011	80.00- 120.00	100.00
4.077	4.077 (0.506)	43	114890			0.00- 49.76	19.76
4.077	4.077 (0.506)	46	239056			11.12- 71.12	41.12
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1405299	50.0000	54.689	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	913546			35.01- 95.01	65.01
4.520	4.520 (0.561)	101	1763772			95.51- 155.51	125.51
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2011215	50.0000	56.675	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	831144			11.33- 71.33	41.33
4.575	4.575 (0.568)	98	542020			0.00- 56.95	26.95
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	637929	50.0000	54.453	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2299544			330.47- 390.47	360.47
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2707135	50.0000	55.728	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	609593			0.00- 52.52	22.52
4.907	4.907 (0.609)	59	75864			0.00- 32.80	2.80
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2406402	50.0000	57.415	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	414359	50.0000	53.420	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	2111471			479.58- 539.58	509.58
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1706770	50.0000	53.981	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	698114			10.90- 70.90	40.90
5.432	5.432 (0.674)	51	504893			0.00- 59.58	29.58
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1285382	50.0000	63.457	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	420035			2.68- 62.68	32.68
5.764	5.764 (0.715)	41	479500			7.30- 67.30	37.30
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	928593	50.0000	52.615	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1853142			169.56- 229.56	199.56
5.819	5.819 (0.722)	98	595194			34.10- 94.10	64.10

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	2302486	50.0000	55.643	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1736895			45.44- 105.44	75.44
6.151	6.151 (0.763)	86	271934			0.00- 41.81	11.81
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1981154	50.0000	54.856	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	604904			0.53- 60.53	30.53
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	384456	50.0000	59.599	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	2915593			728.37- 788.37	758.37
7.644	7.644 (0.949)	57	201730			22.47- 82.47	52.47
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1565585	50.0000	59.781	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	824733			22.68- 82.68	52.68
7.617	7.617 (0.945)	98	537971			4.36- 64.36	34.36
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1722068	50.0000	49.724	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	342653			0.00- 49.90	19.90
8.031	8.031 (0.997)	72	373766			0.00- 51.70	21.70
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1710931	50.0000	52.420	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1129574			36.02- 96.02	66.02
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2022395	50.0000	60.974	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1270587			32.83- 92.83	62.83
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1130208	50.0000	56.134	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2185255			163.35- 223.35	193.35
8.418	8.418 (1.045)	41	1311052			86.00- 146.00	116.00
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	218044	50.0000	57.312	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3871347			1745.49-1805.49	1775.49
6.649	6.649 (0.825)	42	299621			107.41- 167.41	137.41
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1976522	50.0000	56.048	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2053339			73.89- 133.89	103.89

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		
9.082	9.082 (1.127)	57	6213022	50.0000	56.336	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2015399			2.44- 62.44	32.44
9.082	9.082 (1.127)	41	1843879			0.00- 59.68	29.68
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2239212	50.0000	54.575	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	531897			0.00- 53.75	23.75
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	1665720	50.0000	53.394	80.00- 120.00	100.00
9.275	9.275 (0.936)	64	503561			0.23- 60.23	30.23
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	303119	50.0000	56.387	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2739496			873.77- 933.77	903.77
9.469	9.469 (0.955)	71	810288			237.32- 297.32	267.32
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1010571	50.0000	51.538	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1052881			74.19- 134.19	104.19
10.326	10.326 (1.042)	97	646074			33.93- 93.93	63.93
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	965939	50.0000	53.283	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	719223			44.46- 104.46	74.46
10.824	10.824 (1.092)	41	892449			62.39- 122.39	92.39
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	528077	50.0000	57.337	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	536452			71.59- 131.59	101.59
11.073	11.073 (1.117)	57	192687			6.49- 66.49	36.49
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1759031	50.0000	55.509	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1140471			34.84- 94.84	64.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1191505	50.0000	58.544	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	377717			1.70- 61.70	31.70
12.317	12.317 (1.243)	39	1069184			59.73- 119.73	89.73
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	943872	50.0000	57.999	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2971824			284.85- 344.85	314.85
12.593	12.593 (1.271)	85	304280			2.24- 62.24	32.24

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	2462410	50.0000	58.418	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1474018			29.86- 89.86	59.86
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1349325	50.0000	59.545	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	429793			1.85- 61.85	31.85
13.340	13.340 (0.889)	39	1073696			49.57- 109.57	79.57
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	882181	50.0000	59.589	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	546295			31.93- 91.93	61.93
13.644	13.644 (0.910)	83	688141			48.00- 108.00	78.00
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1152734	50.0000	55.026	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1009018			57.53- 117.53	87.53
13.699	13.699 (0.913)	131	971074			54.24- 114.24	84.24
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1284371	50.0000	57.328	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2964135			200.78- 260.78	230.78
14.031	14.031 (0.935)	100	203001			0.00- 45.81	15.81
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1703097	50.0000	58.502	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1344766			48.96- 108.96	78.96
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1436989	50.0000	57.730	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1359290			64.59- 124.59	94.59
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2182197	50.0000	56.743	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	702853			2.21- 62.21	32.21
15.027	15.027 (1.002)	77	1306669			29.88- 89.88	59.88
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1112400	50.0000	54.752	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3720557			304.46- 364.46	334.46
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1456902	50.0000	55.213	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3177839			188.12- 248.12	218.12
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1365248	50.0000	57.951	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	3111772			197.93- 257.93	227.93
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2120538	50.0000	56.002	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1278897			30.31- 90.31	60.31
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1454928	50.0000	60.077	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	753461			21.79- 81.79	51.79
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1764026	50.0000	57.012	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1148021			35.08- 95.08	65.08
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4546708	50.0000	57.986	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1275600			0.00- 58.06	28.06
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4155167	50.0000	56.858	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1832165			14.09- 74.09	44.09
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3492634	50.0000	57.578	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1518440			13.48- 73.48	43.48
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2130718	50.0000	53.932	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1355492			33.62- 93.62	63.62
17.764	17.764 (1.184)	111	962040			15.15- 75.15	45.15
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2715987	50.0000	57.080	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1719319			33.30- 93.30	63.30
17.847	17.847 (1.190)	111	1230234			15.30- 75.30	45.30
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4034802	50.0000	65.786	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	759129			0.00- 48.81	18.81
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2162536	50.0000	51.931	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1375125			33.59- 93.59	63.59
18.206	18.206 (1.214)	111	937640			13.36- 73.36	43.36

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	1605432	50.0000	50.008	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1520514			64.71- 124.71	94.71
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1430466	50.0000	49.489	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	868367			30.71- 90.71	60.71
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4769910	50.0000	57.543	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1134329			0.00- 53.78	23.78
16.824	16.824 (1.122)	105	194731			0.00- 34.08	4.08
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4468833	50.0000	56.452	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1088542			0.00- 54.36	24.36
16.326	16.326 (1.088)	51	682320			0.00- 45.27	15.27
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5451210	50.0000	51.630	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	707634			0.00- 42.98	12.98
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	1190042	50.0000	48.326	80.00- 120.00	100.00
5.570	5.570 (0.691)	41	329908			0.00- 57.72	27.72
5.570	5.570 (0.691)	57	133298			0.00- 41.20	11.20
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	346234	50.0000	49.040	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	2942518			819.86- 879.86	849.86
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2350638	50.0000	54.422	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1416274			30.25- 90.25	60.25
3.414	3.414 (0.424)	72	107305			0.00- 34.56	4.56
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1423397	50.0000	56.125	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	715133			20.24- 80.24	50.24
10.547	10.547 (1.064)	55	1949244			106.94- 166.94	136.94

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022119.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	300521	0.00
92 1,4-Difluorobenze	1106928	664157	1549699	1106928	0.00
125 Chlorobenzene-d5	791985	475191	1108779	791985	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

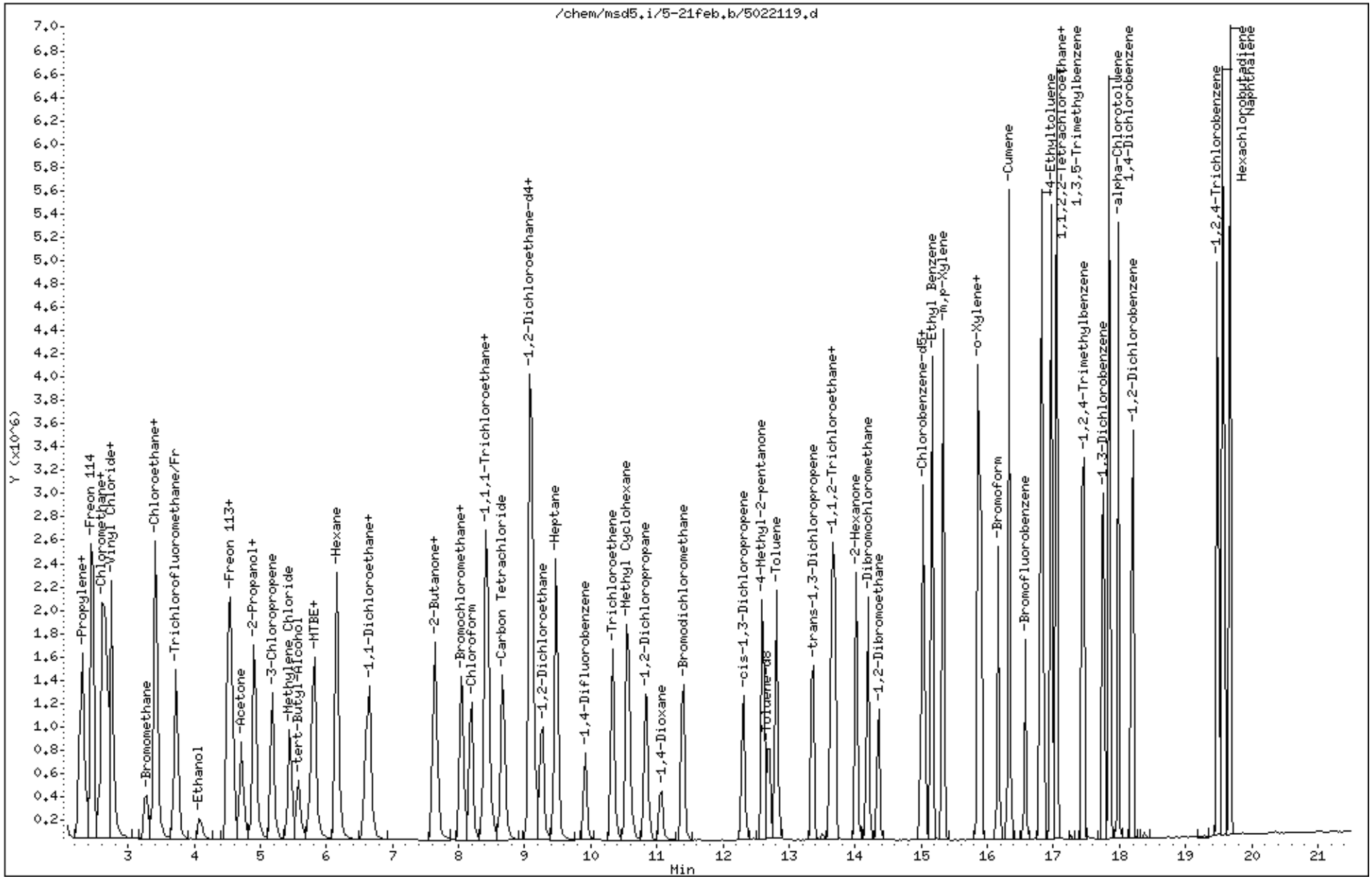
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0162

Data File: /chem/msd5.i/5-21feb.b/5022119.d
Date : 21-FEB-2008 19:35
Client ID: Level 5
Sample Info: 50mL #1576-263

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022120.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 21-FEB-2008 20:04
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #1576-263
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 20:04 Cal File: 5022120.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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	306122	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	242493			50.14- 110.14	79.21
8.059	8.059 (1.000)	49	705422			195.69- 255.69	230.44
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1123569	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	190872			0.00- 46.49	16.99
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	809192	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	495457			0.00- 30.00	61.23
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	583037	25.0000	25.464	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	319223			0.00- 30.00	54.75
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1050477	25.0000	25.342	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	111123			0.00- 30.00	10.58

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	750000			0.00- 30.00	71.40
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	530241	25.0000	25.070	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	745790			114.32- 174.32	140.65
16.575	16.575 (1.105)	176	494732			66.86- 126.86	93.30
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	2612067	100.000	101.16	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	1729074			0.00- 30.00	66.20
2.253	2.253 (0.280)	39	1813620			0.00- 30.00	69.43
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	5367582	100.000	112.65	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	1735123			0.00- 30.00	32.33
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3848340	100.000	108.70	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1185879			0.77- 60.77	30.82
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	3569438	100.000	105.08	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	990515			0.00- 30.00	27.75
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	2732005	100.000	111.50	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	770354			0.00- 30.00	28.20
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	2739664	100.000	106.06	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	3399432			0.00- 30.00	124.08
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1564206	100.000	117.46	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	1448657			64.26- 124.26	92.61
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1329987	100.000	111.40	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	505223			0.00- 30.00	37.99
3.414	3.414 (0.424)	66	405590			0.00- 30.00	30.50
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	5638598	100.000	106.83	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	3594877			34.03- 94.03	63.75

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	1148270	100.000	107.70	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	211130			0.00- 30.00	18.39
4.105	4.105 (0.509)	46	449958			0.00- 30.00	39.19
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	2912296	100.000	108.81	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1840435			35.01- 95.01	63.20
4.520	4.520 (0.561)	101	3629299			95.51- 155.51	124.62
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	4040669	100.000	109.21	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1748193			11.33- 71.33	43.26
4.575	4.575 (0.568)	98	1099700			0.00- 56.95	27.22
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1291555	100.000	106.05	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	4732153			0.00- 30.00	366.39
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	5671374	100.000	110.57	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1212629			0.00- 30.00	21.38
4.907	4.907 (0.609)	59	168124			0.00- 30.00	2.96
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	4965425	100.000	112.63	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	827451	100.000	103.50	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	4243879			0.00- 30.00	512.89
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	3458873	100.000	105.83	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	1429644			10.90- 70.90	41.33
5.460	5.460 (0.677)	51	1067851			0.00- 30.00	30.87
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	2801312	100.000	126.70	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	939821			2.68- 62.68	33.55
5.764	5.764 (0.715)	41	1048207			0.00- 30.00	37.42
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1870842	100.000	103.22	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	3791831			169.56- 229.56	202.68
5.819	5.819 (0.722)	98	1197384			0.00- 30.00	64.00

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	4788792	100.000	110.60	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3484576			0.00- 30.00	72.77
6.151	6.151 (0.763)	86	564566			0.00- 30.00	11.79
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	3978734	100.000	106.42	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	1224728			0.53- 60.53	30.78
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	811712	100.000	117.98	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	5980983			728.37- 788.37	736.84
7.644	7.644 (0.949)	57	410476			0.00- 30.00	50.57
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	3149547	100.000	113.95	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1690375			22.68- 82.68	53.67
7.617	7.617 (0.945)	98	1075338			4.36- 64.36	34.14
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3510994	100.000	99.619	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	704154			0.00- 49.90	20.06
8.031	8.031 (0.997)	72	753920			0.00- 30.00	21.47
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3525778	100.000	104.99	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2255324			36.02- 96.02	63.97
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3998954	100.000	114.17	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2564426			32.83- 92.83	64.13
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	2286080	100.000	108.96	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	4468139			163.35- 223.35	195.45
8.418	8.418 (1.045)	41	2618872			86.00- 146.00	114.56
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	460476	100.000	113.48	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	7975743			0.00- 30.00	1732.06
6.649	6.649 (0.825)	42	616869			0.00- 30.00	133.96
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3985581	100.000	108.57	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	4148683			73.89- 133.89	104.09

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		
9.082	9.082 (1.127)	57	12540505	100.000	109.09	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	4103438			0.00- 30.00	32.72
9.082	9.082 (1.127)	41	3686455			0.00- 30.00	29.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	4542373	100.000	107.44	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1057841			0.00- 30.00	23.29
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	3330928	100.000	104.11	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	1012977			0.00- 30.00	30.41
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	580821	100.000	105.09	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	5383023			0.00- 30.00	926.80
9.469	9.469 (0.955)	71	1631447			0.00- 30.00	280.89
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2072122	100.000	103.26	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2140748			74.19- 134.19	103.31
10.326	10.326 (1.042)	97	1329968			33.93- 93.93	64.18
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1958188	100.000	105.07	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	1415566			44.46- 104.46	72.29
10.824	10.824 (1.092)	41	1750030			62.39- 122.39	89.37
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1040282	100.000	108.23	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	1112765			71.59- 131.59	106.97
11.073	11.073 (1.117)	57	377969			0.00- 30.00	36.33
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	3547568	100.000	108.07	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	2281404			34.84- 94.84	64.31
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2456711	100.000	114.58	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	785055			1.70- 61.70	31.96
12.289	12.289 (1.240)	39	2158641			59.73- 119.73	87.87
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1980890	100.000	115.32	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	6019588			0.00- 30.00	303.88
12.594	12.594 (1.271)	85	623352			0.00- 30.00	31.47

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	4949371	100.000	112.16	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2947147			29.86- 89.86	59.55
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2841103	100.000	117.38	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	895935			1.85- 61.85	31.53
13.340	13.340 (0.889)	39	2112479			49.57- 109.57	74.35
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1735498	100.000	111.45	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1073630			31.93- 91.93	61.86
13.644	13.644 (0.910)	83	1379748			48.00- 108.00	79.50
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	2330843	100.000	106.99	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	2000980			57.53- 117.53	85.85
13.699	13.699 (0.913)	131	1950860			54.24- 114.24	83.70
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2660534	100.000	111.70	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	6028444			200.78- 260.78	226.59
14.031	14.031 (0.935)	100	426049			0.00- 30.00	16.01
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3476028	100.000	113.05	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2708544			0.00- 30.00	77.92
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	2954307	100.000	112.53	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	2753535			64.59- 124.59	93.20
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	4374907	100.000	108.87	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1398887			2.21- 62.21	31.98
15.027	15.027 (1.002)	77	2621812			29.88- 89.88	59.93
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2289486	100.000	108.07	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	7540370			0.00- 30.00	329.35
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2906305	100.000	106.14	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	6228625			0.00- 30.00	214.31
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2687966	100.000	109.12	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	6175350			197.93- 257.93	229.74
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	4254764	100.000	108.18	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	2454057			30.31- 90.31	57.68
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2982859	100.000	115.79	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1547220			21.79- 81.79	51.87
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3489316	100.000	108.13	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	2238059			35.08- 95.08	64.14
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	8818365	100.000	107.90	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	2492577			0.00- 58.06	28.27
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	8215172	100.000	107.86	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	3649167			0.00- 30.00	44.42
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	6986639	100.000	109.93	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	2996497			13.48- 73.48	42.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	4275229	100.000	104.67	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	2744543			0.00- 30.00	64.20
17.764	17.764 (1.184)	111	1935359			0.00- 30.00	45.27
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	5270362	100.000	106.62	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	3264199			0.00- 30.00	61.94
17.847	17.847 (1.190)	111	2505274			0.00- 30.00	47.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	8565859	100.000	127.35	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1622160			0.00- 30.00	18.94
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	4296406	100.000	100.78	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	2746076			33.59- 93.59	63.92
18.206	18.206 (1.214)	111	1927928			13.36- 73.36	44.87

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	3270276	100.000	99.775	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	3108360			64.71- 124.71	95.05
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2889540	100.000	98.372	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1776841			30.71- 90.71	61.49
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	9449763	100.000	109.05	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2127043			0.00- 30.00	22.51
16.824	16.824 (1.122)	105	352807			0.00- 30.00	3.73
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	8856203	100.000	107.79	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2244398			0.00- 30.00	25.34
16.326	16.326 (1.088)	51	1328236			0.00- 30.00	15.00
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	11123420	100.000	102.32	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1396008			0.00- 30.00	12.55
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	2125547	100.000	88.099	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	571395			0.00- 30.00	26.88
5.571	5.571 (0.691)	57	236509			0.00- 30.00	11.13
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	705537	100.000	98.570	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	6015742			0.00- 30.00	852.65
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4742677	100.000	105.73	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2808837			0.00- 30.00	59.22
3.414	3.414 (0.424)	72	210513			0.00- 30.00	4.44
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	2841400	100.000	108.13	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	1435487			0.00- 30.00	50.52
10.547	10.547 (1.064)	55	3870425			0.00- 30.00	136.22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022120.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	306122	1.86
92 1,4-Difluorobenze	1106928	664157	1549699	1123569	1.50
125 Chlorobenzene-d5	791985	475191	1108779	809192	2.17

		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.

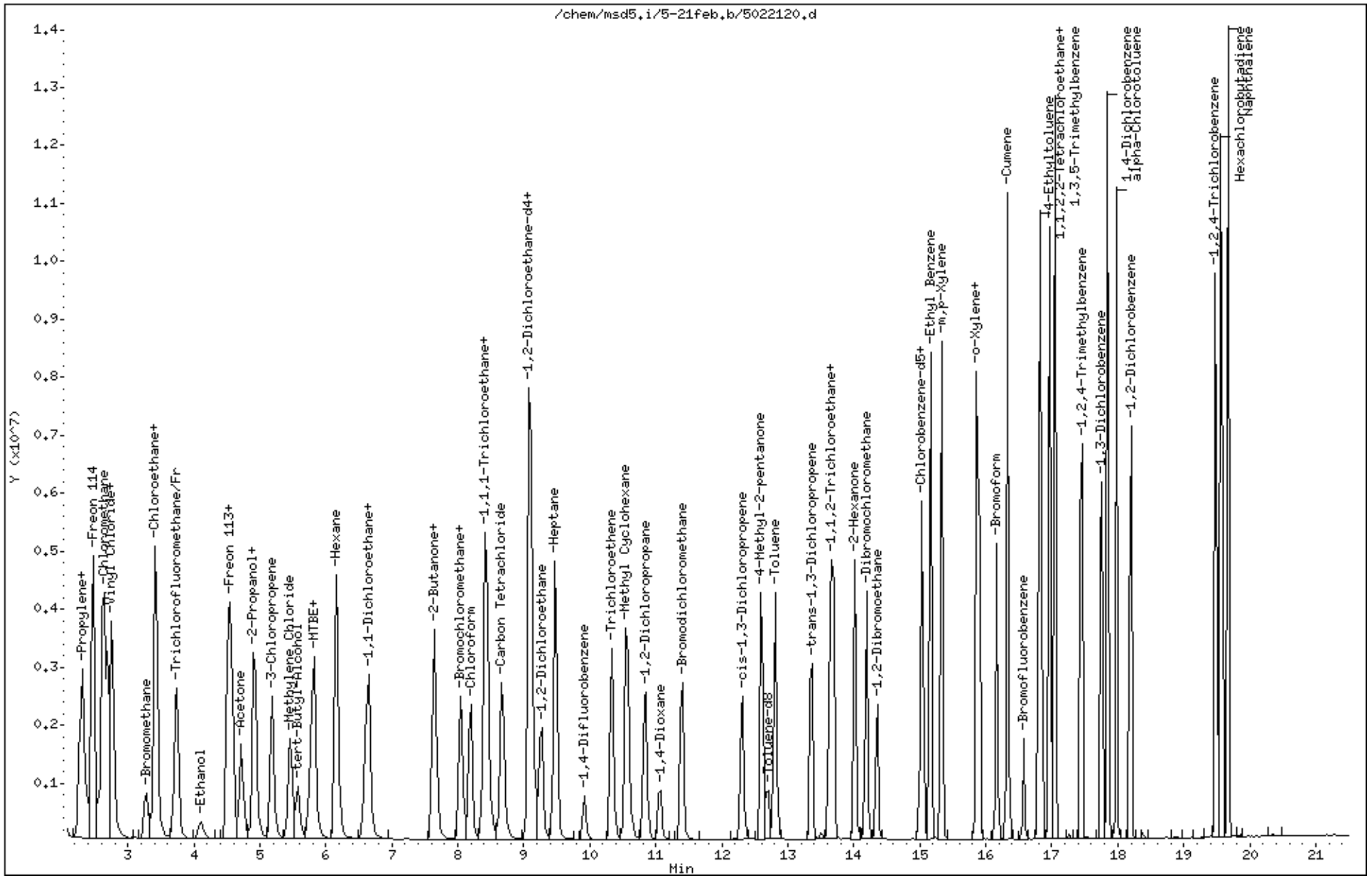
0172

Data File: /chem/msd5.i/5-21feb.b/5022120.d
Date : 21-FEB-2008 20:04
Client ID: Level 6
Sample Info: 100mL #1576-263

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022129.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-FEB-2008 12:09
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1576-299
Misc Info : 200ppbv sp17a
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:20 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp17a.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	327760	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	255449			50.18- 110.18	77.94
8.059	8.059 (1.000)	49	790971			211.98- 271.98	241.33
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1245076	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	197888			0.00- 46.71	15.89
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	873183	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	502174			0.00- 30.00	57.51
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	3902567	200.000	212.13	70.00- 130.00	100.00(TA)
0.000	1.000 (0.000)	69	0			0.00- 30.00	0.00
3 Freon 152a					CAS #: 75-37-6		
2.280	2.280 (0.283)	65	2744161	200.000	203.96	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	51	18132530			0.00- 30.00	660.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.336	2.336 (0.290)	67	1110083	200.000	202.46	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	51	17906717			0.00- 30.00	1613.10
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	8673597	200.000	207.00	70.00- 130.00	100.00(A)
2.529	2.529 (0.314)	45	2534293			0.00- 30.00	29.22
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.746	3.746 (0.465)	67	6975866	200.000	216.36	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	69	2096201			0.00- 30.00	30.05
4.022	4.022 (0.499)	35	3326			0.00- 30.00	0.05
22 Freon123a					CAS #: 354-23-4		
4.299	4.299 (0.533)	117	3226725	200.000	207.30	70.00- 130.00	100.00(A)
4.299	4.299 (0.533)	67	4564514			0.00- 30.00	141.46
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	479326	200.000	215.15	70.00- 130.00	100.00(A)
4.409	4.409 (0.547)	133	107060			0.00- 30.00	22.34
4.409	4.409 (0.547)	85	337772			0.00- 30.00	70.47
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	20798737	200.000	218.96	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	87	3107794			0.00- 30.00	14.94
6.594	6.594 (0.818)	59	1735743			0.00- 30.00	8.35
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	8469810	200.000	207.80	70.00- 130.00	100.00(A)
7.202	7.202 (0.894)	87	2518929			0.00- 30.00	29.74
7.202	7.202 (0.894)	41	1863517			0.00- 30.00	22.00
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	755574	200.000	217.70	70.00- 130.00	100.00(A)
7.700	7.700 (0.955)	43	12917292			0.00- 30.00	1709.60
7.700	7.700 (0.955)	61	1316630			0.00- 30.00	174.26
64 1-Propanol					CAS #: 71-23-8		
6.787	6.787 (0.842)	42	1101008	200.000	213.12	70.00- 130.00	100.00(A)
6.787	6.787 (0.842)	59	1047215			0.00- 30.00	95.11
6.787	6.787 (0.842)	41	788476			0.00- 30.00	71.61
76 Isobutanol					CAS #: 78-83-1		
9.055	9.055 (0.914)	43	5010493	200.000	230.60	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	41	3498341			0.00- 30.00	69.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.151)	73	5716325	200.000	190.09	70.00- 130.00	100.00
9.276	9.276 (1.151)	87	1539434			0.00- 30.00	26.93
9.276	9.276 (1.151)	55	2549177			0.00- 30.00	44.59
91 1-Butanol					CAS #: 71-36-3		
10.354	10.354 (1.045)	56	3830971	200.000	256.83	70.00- 130.00	100.00(A)
10.354	10.354 (1.045)	41	2971684			0.00- 30.00	77.57
10.354	10.354 (1.045)	43	2404518			0.00- 30.00	62.77
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	5277780	200.000	219.85	70.00- 130.00	100.00(A)
14.197	14.197 (1.432)	73	1251556			0.00- 30.00	23.71
14.197	14.197 (1.432)	43	13857714			0.00- 30.00	262.57
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	6424193	200.000	215.62	70.00- 130.00	100.00(A)
16.520	16.520 (1.101)	98	1840348			0.00- 30.00	28.65
16.520	16.520 (1.101)	42	5037301			0.00- 30.00	78.41
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	15248001	200.000	188.06	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	9114831			21.47- 81.47	59.78

QC Flag Legend

T - Target compound detected outside RT window.
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: 5022129.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 200ppbv sp17a

Calibration Date: 22-FEB-2008
Calibration Time: 11:36
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	316829	190097	443561	327760	3.45
92 1,4-Difluorobenze	1201581	720949	1682213	1245076	3.62
125 Chlorobenzene-d5	856914	514148	1199680	873183	1.90

		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.

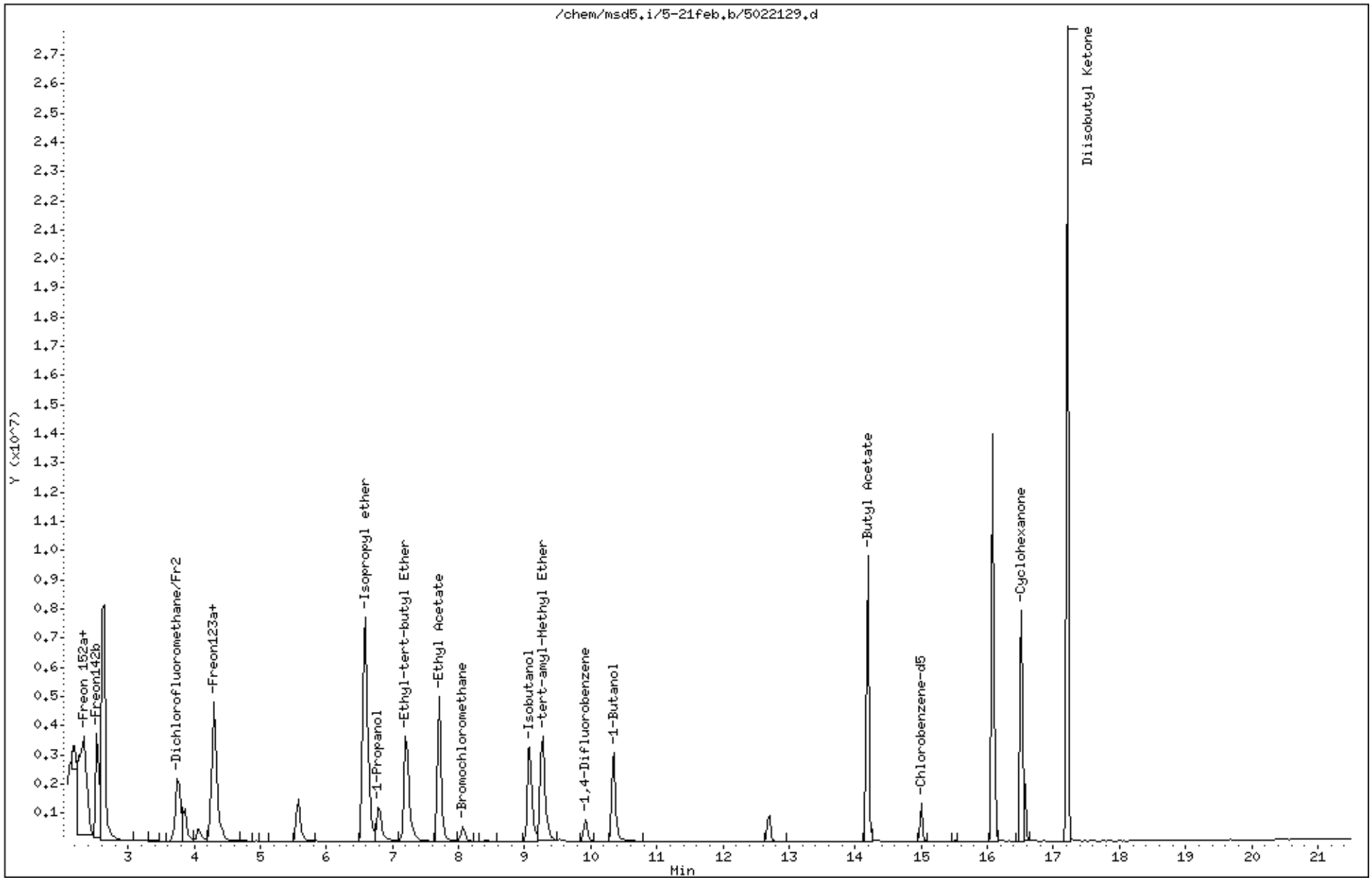
0177

Data File: /chem/msd5.i/5-21feb.b/5022129.d
Date : 22-FEB-2008 12:09
Client ID: Level 7
Sample Info: 200mL #1576-299

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022121.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 21-FEB-2008 20:36
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1576-263
Misc Info : 200ppbv
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 20:36 Cal File: 5022121.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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	330627	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	249619			50.14- 110.14		75.50
8.059	8.059 (1.000)	49	768754			195.69- 255.69		232.51
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1241116	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	216433			0.00- 46.49		17.44
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	855617	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	507125			0.00- 30.00		59.27
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	677470	25.0000	26.964	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	430486			0.00- 30.00		63.54
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1102878	25.0000	24.234	70.00- 130.00		100.00
12.704	12.704 (1.282)	70	139292			0.00- 30.00		12.63

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	845565			0.00- 30.00	76.67
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	543500	25.0000	24.416	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	808198			114.32- 174.32	148.70
16.575	16.575 (1.105)	176	550575			66.86- 126.86	101.30
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	5400547	200.000	194.88	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	3613085			0.00- 30.00	66.90
2.253	2.253 (0.280)	39	3723214			0.00- 30.00	68.94
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	10754915	200.000	207.44	70.00- 130.00	100.00(A)
2.308	2.308 (0.286)	87	3428023			0.00- 30.00	31.87
9 Freon 114					CAS #: 76-14-2		
2.501	2.501 (0.310)	135	7988675	200.000	207.39	70.00- 130.00	100.00(A)
2.501	2.501 (0.310)	137	2494465			0.77- 60.77	31.23
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	7958740	200.000	213.32	70.00- 130.00	100.00(A)
2.612	2.612 (0.324)	52	2160938			0.00- 30.00	27.15
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	5747234	200.000	214.10	70.00- 130.00	100.00(A)
2.750	2.750 (0.341)	64	1714501			0.00- 30.00	29.83
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	5865536	200.000	208.46	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	7624537			0.00- 30.00	129.99
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	3347285	200.000	226.55	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	3126536			64.26- 124.26	93.41
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	2912001	200.000	221.07	70.00- 130.00	100.00(A)
3.414	3.414 (0.424)	49	1074753			0.00- 30.00	36.91
3.441	3.441 (0.427)	66	861293			0.00- 30.00	29.58
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	12103789	200.000	210.17	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	7785863			34.03- 94.03	64.33

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	2527255	200.000	215.29	70.00- 130.00	100.00(A)
4.133	4.133 (0.513)	43	458054			0.00- 30.00	18.12
4.105	4.105 (0.509)	46	1033180			0.00- 30.00	40.88
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	6308670	200.000	214.97	70.00- 130.00	100.00(A)
4.547	4.547 (0.564)	153	3961755			35.01- 95.01	62.80
4.520	4.520 (0.561)	101	7785233			95.51- 155.51	123.41
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	8833292	200.000	217.23	70.00- 130.00	100.00(A)
4.603	4.603 (0.571)	96	3756635			11.33- 71.33	42.53
4.603	4.603 (0.571)	98	2415144			0.00- 56.95	27.34
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	2784068	200.000	209.21	70.00- 130.00	100.00(A)
4.741	4.741 (0.588)	43	10041435			0.00- 30.00	360.67
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	12188689	200.000	215.70	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2750588			0.00- 30.00	22.57
4.935	4.935 (0.612)	59	376744			0.00- 30.00	3.09
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	10823449	200.000	222.25	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	1890155	200.000	214.84	70.00- 130.00	100.00(A)
5.211	5.211 (0.647)	41	9171434			0.00- 30.00	485.22
43 Methylene Chloride					CAS #: 75-09-2		
5.488	5.488 (0.681)	49	7339116	200.000	206.55	70.00- 130.00	100.00(A)
5.488	5.488 (0.681)	84	3067400			10.90- 70.90	41.80
5.488	5.488 (0.681)	51	2267849			0.00- 30.00	30.90
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	5295400	200.000	217.81	70.00- 130.00	100.00(A)
5.764	5.764 (0.715)	57	1807885			2.68- 62.68	34.14
5.764	5.764 (0.715)	41	1953250			0.00- 30.00	36.89
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	4110270	200.000	208.25	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	8300463			169.56- 229.56	201.94
5.819	5.819 (0.722)	98	2594216			0.00- 30.00	63.12

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	10343546	200.000	217.35	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	7551030			0.00- 30.00	73.00
6.151	6.151 (0.763)	86	1218491			0.00- 30.00	11.78
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	8772053	200.000	214.16	70.00- 130.00	100.00(A)
6.593	6.593 (0.818)	65	2653062			0.53- 60.53	30.24
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1717658	200.000	225.30	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	12870938			728.37- 788.37	749.33
7.644	7.644 (0.949)	57	890405			0.00- 30.00	51.84
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	6878912	200.000	224.73	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	3607070			22.68- 82.68	52.44
7.644	7.644 (0.949)	98	2312667			4.36- 64.36	33.62
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	7549287	200.000	198.60	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	1531413			0.00- 49.90	20.29
8.031	8.031 (0.997)	72	1692733			0.00- 30.00	22.42
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	7547337	200.000	206.89	70.00- 130.00	100.00(A)
8.197	8.197 (1.017)	85	4794679			36.02- 96.02	63.53
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	8647032	200.000	223.26	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	5500241			32.83- 92.83	63.61
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	4997049	200.000	216.82	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	56	9502116			163.35- 223.35	190.15
8.418	8.418 (1.045)	41	5594982			86.00- 146.00	111.97
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	996300	200.000	221.28	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	17676618			0.00- 30.00	1774.23
6.649	6.649 (0.825)	42	1319278			0.00- 30.00	132.42
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	8860835	200.000	219.20	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	9108030			73.89- 133.89	102.79

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	26238573	200.000	209.36	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	8475915			0.00- 30.00	32.30
9.110	9.110 (1.130)	41	7643095			0.00- 30.00	29.13
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	9478489	200.000	202.54	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	77	2232529			0.00- 30.00	23.55
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	7200514	200.000	203.11	70.00- 130.00	100.00(A)
9.275	9.275 (0.936)	64	2170129			0.00- 30.00	30.14
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1301543	200.000	210.87	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	11473603			0.00- 30.00	881.54
9.469	9.469 (0.955)	71	3593561			0.00- 30.00	276.10
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	4406309	200.000	198.99	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	4530673			74.19- 134.19	102.82
10.326	10.326 (1.042)	97	2827086			33.93- 93.93	64.16
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	4240893	200.000	204.97	70.00- 130.00	100.00(A)
10.852	10.852 (1.095)	62	3088722			44.46- 104.46	72.83
10.852	10.852 (1.095)	41	3644056			62.39- 122.39	85.93
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	2244585	200.000	209.02	70.00- 130.00	100.00(A)
11.045	11.045 (1.114)	58	2394462			71.59- 131.59	106.68
11.045	11.045 (1.114)	57	790549			0.00- 30.00	35.22
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	7600285	200.000	207.93	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	4829796			34.84- 94.84	63.55
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	5205134	200.000	216.22	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1669037			1.70- 61.70	32.07
12.317	12.317 (1.243)	39	4510973			59.73- 119.73	86.66
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	4004001	200.000	209.11	70.00- 130.00	100.00(A)
12.593	12.593 (1.271)	43	12458116			0.00- 30.00	311.14
12.593	12.593 (1.271)	85	1317184			0.00- 30.00	32.90

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	10067871	200.000	205.43	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	5841853			29.86- 89.86	58.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	5931557	200.000	225.79	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1927811			1.85- 61.85	32.50
13.340	13.340 (0.889)	39	4388239			49.57- 109.57	73.98
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	3601690	200.000	215.38	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	2193553			31.93- 91.93	60.90
13.644	13.644 (0.910)	83	2818536			48.00- 108.00	78.26
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	4790428	200.000	206.59	70.00- 130.00	100.00(A)
13.699	13.699 (0.913)	129	4077702			57.53- 117.53	85.12
13.699	13.699 (0.913)	131	3868915			54.24- 114.24	80.76
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	5520851	200.000	215.07	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	12510258			200.78- 260.78	226.60
14.004	14.004 (0.934)	100	877630			0.00- 30.00	15.90
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7286137	200.000	219.70	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	5687669			0.00- 30.00	78.06
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	6114956	200.000	216.61	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	5663920			64.59- 124.59	92.62
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	8948440	200.000	208.76	70.00- 130.00	100.00(A)
15.027	15.027 (1.002)	114	2840135			2.21- 62.21	31.74
15.027	15.027 (1.002)	77	5346915			29.88- 89.88	59.75
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	4488462	200.000	200.31	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	15059785			0.00- 30.00	335.52
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	5703948	200.000	197.51	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	12499395			0.00- 30.00	219.14
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	5290086	200.000	202.58	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	12383744			197.93- 257.93	234.09
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	8077002	200.000	195.02	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	4899969			30.31- 90.31	60.67
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	6167266	200.000	221.54	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3162475			21.79- 81.79	51.28
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	7300042	200.000	211.49	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	4635838			35.08- 95.08	63.50
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	17991357	200.000	206.78	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	4943131			0.00- 58.06	27.48
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	15808359	200.000	196.90	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	7152648			0.00- 30.00	45.25
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	14338713	200.000	211.02	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	6006256			13.48- 73.48	41.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	8718866	200.000	201.57	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	5512208			0.00- 30.00	63.22
17.764	17.764 (1.184)	111	3872613			0.00- 30.00	44.42
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	10879917	200.000	206.74	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	6803311			0.00- 30.00	62.53
17.847	17.847 (1.190)	111	4986379			0.00- 30.00	45.83
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14648884	200.000	204.95	70.00- 130.00	100.00(A)
17.985	17.985 (1.199)	126	3368501			0.00- 30.00	22.99
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	8747761	200.000	195.03	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	5529845			33.59- 93.59	63.21
18.206	18.206 (1.214)	111	3864958			13.36- 73.36	44.18

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	6612385	200.000	192.57	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	6242607			64.71- 124.71	94.41
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	5842363	200.000	190.37	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	3657841			30.71- 90.71	62.61
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	19145968	200.000	207.41	70.00- 130.00	100.00(A)
16.824	16.824 (1.122)	120	4305106			0.00- 30.00	22.49
16.824	16.824 (1.122)	105	726554			0.00- 30.00	3.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	17197414	200.000	198.24	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	4359908			0.00- 30.00	25.35
16.326	16.326 (1.088)	51	2606304			0.00- 30.00	15.16
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14938752	200.000	139.74	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2825635			0.00- 30.00	18.91
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	3412363	200.000	140.66	70.00- 130.00	100.00
5.570	5.570 (0.691)	41	1136223			0.00- 30.00	33.30
5.570	5.570 (0.691)	57	367683			0.00- 30.00	10.78
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1545000	200.000	199.88	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	12723426			0.00- 30.00	823.52
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	10270922	200.000	209.49	70.00- 130.00	100.00(A)
3.414	3.414 (0.424)	57	6166935			0.00- 30.00	60.04
3.414	3.414 (0.424)	72	483503			0.00- 30.00	4.71
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	6067879	200.000	207.48	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	3081603			0.00- 30.00	50.79
10.547	10.547 (1.064)	55	8149580			0.00- 30.00	134.31

QC Flag Legend

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

Report Date: 22-Feb-2008 13:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022121.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 200ppbv

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	330627	10.02
92 1,4-Difluorobenze	1106928	664157	1549699	1241116	12.12
125 Chlorobenzene-d5	791985	475191	1108779	855617	8.03

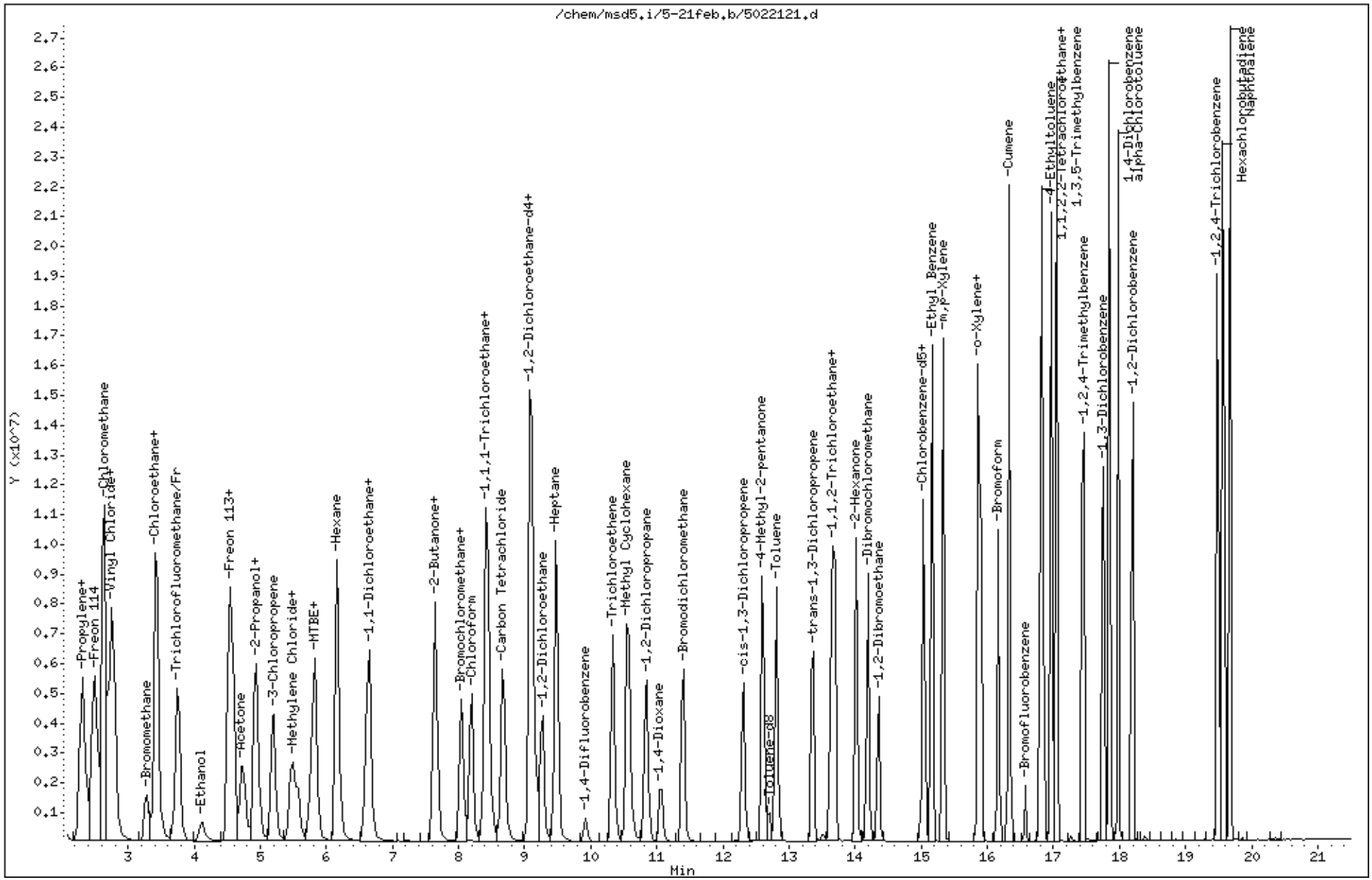
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/5-21feb.b/5022121.d
Date : 21-FEB-2008 20:36
Client ID: Level 7
Sample Info: 200mL #1576-263

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0802295-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 09:57 AM**

Compound	%Recovery
Freon 12	96
Freon 114	109
Vinyl Chloride	107
Bromomethane	108
Chloroethane	110
Freon 11	91
1,1-Dichloroethene	98
Freon 113	100
Methylene Chloride	96
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	104
Chloroform	92
1,1,1-Trichloroethane	98
Carbon Tetrachloride	91
Benzene	107
1,2-Dichloroethane	89
Trichloroethene	95
1,2-Dichloropropane	100
cis-1,3-Dichloropropene	103
Toluene	110
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	106
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	104
Chlorobenzene	105
Ethyl Benzene	109
m,p-Xylene	107
o-Xylene	109
Styrene	108
1,1,2,2-Tetrachloroethane	106
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	102
1,3-Butadiene	99
Hexane	102
Cyclohexane	104

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0802295-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 09:57 AM**	

Compound	%Recovery
Heptane	106
Bromodichloromethane	93
Dibromochloromethane	100
Cumene	104
Propylbenzene	106
Chloromethane	96
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	89
Acetone	100
Carbon Disulfide	110
2-Propanol	101
trans-1,2-Dichloroethene	100
2-Butanone (Methyl Ethyl Ketone)	113
Tetrahydrofuran	95
1,4-Dioxane	104
4-Methyl-2-pentanone	107
2-Hexanone	106
Bromoform	103
4-Ethyltoluene	106
Ethanol	104
Methyl tert-butyl ether	105
3-Chloropropene	102
2,2,4-Trimethylpentane	104
Naphthalene	106

Container Type: NA - Not Applicable

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

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 25-FEB-2008 09:57
Lab File ID: 5022503.d Init. Cal. Date(s): 21-FEB-2008 22-FEB-2008
Analysis Type: AIR Init. Cal. Times: 18:11 12:09
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-25feb.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.89977	1.62962	0.010	14.22031	30.00000	Averaged
$ 107 Toluene-d8	0.91671	0.90511	0.010	1.26552	30.00000	Averaged
$ 138 Bromofluorobenzene	0.65041	0.64272	0.010	1.18250	30.00000	Averaged
6 Propylene	2.09538	2.14085	0.010	-2.17011	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	3.92035	3.78302	0.010	3.50299	30.00000	Averaged
9 Freon 114	2.91268	3.16446	0.010	-8.64429	30.00000	Averaged
10 Chloromethane	2.82110	2.71007	0.010	3.93568	30.00000	Averaged
13 Vinyl Chloride	2.02971	2.16616	0.010	-6.72231	30.00000	Averaged
12 1,3-Butadiene	2.12753	2.10533	0.010	1.04346	30.00000	Averaged
15 Bromomethane	1.11721	1.20168	0.010	-7.56083	30.00000	Averaged
19 Chloroethane	0.99600	1.09315	0.010	-9.75457	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	4.35470	3.95756	0.010	9.11979	30.00000	Averaged
26 Ethanol	0.88763	0.92090	0.010	-3.74798	30.00000	Averaged
30 Freon 113	2.21900	2.22918	0.010	-0.45874	30.00000	Averaged
31 1,1-Dichloroethene	3.07465	3.01253	0.010	2.02017	30.00000	Averaged
32 Acetone	1.00622	1.00919	0.010	-0.29603	30.00000	Averaged
36 2-Propanol	4.27265	4.29881	0.010	-0.61213	30.00000	Averaged
35 Carbon Disulfide	3.68230	4.03970	0.010	-9.70576	30.00000	Averaged
38 3-Chloropropene	0.66523	0.67947	0.010	-2.13984	30.00000	Averaged
43 Methylene Chloride	2.68674	2.58627	0.010	3.73931	30.00000	Averaged
46 MTBE	1.83835	1.93189	0.010	-5.08857	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.49243	1.48955	0.010	0.19293	30.00000	Averaged
51 Hexane	3.59847	3.66373	0.010	-1.81370	30.00000	Averaged
56 Vinyl Acetate	0.34044	0.35806	0.010	-5.17597	30.00000	Averaged
55 1,1-Dichloroethane	3.09721	3.10555	0.010	-0.26926	30.00000	Averaged
67 2-Butanone	0.57647	0.65275	0.010	-13.23245	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.31454	2.39681	0.010	-3.55440	30.00000	Averaged
70 Tetrahydrofuran	2.87426	2.72400	0.010	5.22770	30.00000	Averaged
72 Chloroform	2.75838	2.54588	0.010	7.70405	30.00000	Averaged
75 1,1,1-Trichloroethane	2.92864	2.86156	0.010	2.29064	30.00000	Averaged
74 Cyclohexane	1.74267	1.81672	0.010	-4.24961	30.00000	Averaged
77 Carbon Tetrachloride	3.05656	2.78169	0.010	8.99276	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.47652	9.85975	0.010	-4.04400	30.00000	Averaged
81 Benzene	0.94266	1.01027	0.010	-7.17196	30.00000	Averaged
85 1,2-Dichloroethane	0.71411	0.63281	0.010	11.38441	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 25-FEB-2008 09:57
Lab File ID: 5022503.d Init. Cal. Date(s): 21-FEB-2008 22-FEB-2008
Analysis Type: AIR Init. Cal. Times: 18:11 12:09
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-25feb.b/t14q221a.m

	COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90	Heptane	0.12433	0.13242	0.010	-6.51278	30.00000	Averaged
93	Trichloroethene	0.44604	0.42512	0.010	4.69072	30.00000	Averaged
98	1,2-Dichloropropane	0.41676	0.41676	0.010	-0.00049	30.00000	Averaged
99	1,4-Dioxane	0.21631	0.22623	0.010	-4.58625	30.00000	Averaged
100	Bromodichloromethane	0.73627	0.68718	0.010	6.66716	30.00000	Averaged
103	cis-1,3-Dichloropropene	0.48492	0.50143	0.010	-3.40557	30.00000	Averaged
106	4-Methyl-2-pentanone	0.38570	0.41346	0.010	-7.19669	30.00000	Averaged
108	Toluene	0.98720	1.08503	0.010	-9.90985	30.00000	Averaged
113	trans-1,3-Dichloropropene	0.76759	0.78112	0.010	-1.76179	30.00000	Averaged
114	1,1,2-Trichloroethane	0.48861	0.51939	0.010	-6.29943	30.00000	Averaged
116	Tetrachloroethene	0.67751	0.72125	0.010	-6.45652	30.00000	Averaged
119	2-Hexanone	0.75003	0.79441	0.010	-5.91652	30.00000	Averaged
120	Dibromochloromethane	0.96903	0.96485	0.010	0.43080	30.00000	Averaged
122	1,2-Dibromoethane	0.82483	0.85422	0.010	-3.56264	30.00000	Averaged
126	Chlorobenzene	1.25246	1.31377	0.010	-4.89551	30.00000	Averaged
128	Ethyl Benzene	0.65473	0.71543	0.010	-9.27081	30.00000	Averaged
130	m,p-Xylene	0.84383	0.90226	0.010	-6.92405	30.00000	Averaged
132	o-Xylene	0.76299	0.83019	0.010	-8.80762	30.00000	Averaged
133	Styrene	1.21011	1.31351	0.010	-8.54454	30.00000	Averaged
134	Bromoform	0.81340	0.84013	0.010	-3.28657	30.00000	Averaged
141	1,1,2,2-Tetrachloroethane	1.00855	1.07470	0.010	-6.55908	30.00000	Averaged
144	4-Ethyltoluene	2.54221	2.70457	0.010	-6.38641	30.00000	Averaged
147	1,3,5-Trimethylbenzene	2.34583	2.47604	0.010	-5.55074	30.00000	Averaged
152	1,2,4-Trimethylbenzene	1.98540	2.00767	0.010	-1.12160	30.00000	Averaged
155	1,3-Dichlorobenzene	1.26383	1.29290	0.010	-2.30025	30.00000	Averaged
156	1,4-Dichlorobenzene	1.53762	1.64877	0.010	-7.22832	30.00000	Averaged
157	alpha-Chlorotoluene	2.08844	2.40632	0.010	-15.22066	30.00000	Averaged
159	1,2-Dichlorobenzene	1.31055	1.33378	0.010	-1.77212	30.00000	Averaged
163	1,2,4-Trichlorobenzene	1.00331	0.94901	0.010	5.41173	30.00000	Averaged
164	Hexachlorobutadiene	0.89670	0.79622	0.010	11.20552	30.00000	Averaged
142	Propylbenzene	2.69717	2.86996	0.010	-6.40640	30.00000	Averaged
136	Cumene	2.53467	2.65112	0.010	-4.59412	30.00000	Averaged
165	Naphthalene	3.12351	3.31627	0.010	-6.17133	30.00000	Averaged
37	tert-Butyl-Alcohol	1.83431	1.73536	0.010	5.39436	40.00000	Averaged
11	Butane	0.58446	0.54630	0.010	6.52878	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 25-FEB-2008 09:57
Lab File ID: 5022503.d Init. Cal. Date(s): 21-FEB-2008 22-FEB-2008
Analysis Type: AIR Init. Cal. Times: 18:11 12:09
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-25feb.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
17 Isopentane	3.70716	3.60972	0.010	2.62834	30.00000	Averaged
94 Methyl Cyclohexane	0.58908	0.62881	0.010	-6.74362	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022503.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 25-FEB-2008 09:57
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-263
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 11:18 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.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	409127	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	307555			45.17- 105.17		75.17
8.059	8.059 (1.000)	49	875903			184.09- 244.09		214.09
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1482847	25.0000		80.00- 120.00		100.00
9.912	9.912 (1.000)	88	227767			0.00- 45.36		15.36
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1050862	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	621476			0.00- 30.00		59.14
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	666720	25.0000	21.445	80.00- 120.00		100.00
9.110	9.110 (1.130)	67	340244			19.51- 79.51		51.03
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1342142	25.0000	24.684	80.00- 120.00		100.00
12.704	12.704 (1.282)	70	157362			0.00- 41.02		11.72

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	936858			39.73- 99.73	69.80
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	675410	25.0000	24.704	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	952085			110.96- 170.96	140.96
16.575	16.575 (1.105)	176	641253			64.94- 124.94	94.94
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1751758	50.0000	51.085	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	1109070			0.00- 30.00	63.31
2.253	2.253 (0.280)	39	1146706			0.00- 30.00	65.46
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	3095471	50.0000	48.248	80.00- 120.00	100.00
2.308	2.308 (0.286)	87	1006193			0.00- 30.00	32.51
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	2589334	50.0000	54.322	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	807045			1.17- 61.17	31.17
10 Chloromethane					CAS #: 74-87-3		
2.557	2.557 (0.317)	50	2217527	50.0000	48.032	80.00- 120.00	100.00
2.557	2.557 (0.317)	52	624580			0.00- 30.00	28.17
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1772465	50.0000	53.361	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	510397			0.00- 30.00	28.80
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1722697	50.0000	49.478	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1999067			0.00- 30.00	116.04
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	983276	50.0000	53.780	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	911913			62.74- 122.74	92.74
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	894476	50.0000	54.877	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	319938			0.00- 30.00	35.77
3.414	3.414 (0.424)	66	263862			0.00- 30.00	29.50
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	3238289	50.0000	45.440	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	2153773			36.51- 96.51	66.51

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	753532	50.0000	51.874	80.00- 120.00	100.00
4.078	4.078 (0.506)	43	132212			0.00- 30.00	17.55
4.078	4.078 (0.506)	46	310876			0.00- 30.00	41.26
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1824038	50.0000	50.229	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1146396			32.85- 92.85	62.85
4.520	4.520 (0.561)	101	2256248			93.70- 153.70	123.70
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2465018	50.0000	48.990	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1114222			15.20- 75.20	45.20
4.575	4.575 (0.568)	98	706914			0.00- 58.68	28.68
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	825777	50.0000	50.148	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2875412			0.00- 30.00	348.21
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	3517516	50.0000	50.306	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	738916			0.00- 30.00	21.01
4.907	4.907 (0.609)	59	109361			0.00- 30.00	3.11
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3305497	50.0000	54.853	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	555977	50.0000	51.070	80.00- 120.00	100.00
5.184	5.184 (0.643)	41	2662889			0.00- 30.00	478.96
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	2116227	50.0000	48.130	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	931556			14.02- 74.02	44.02
5.432	5.432 (0.674)	51	648541			0.00- 30.00	30.65
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1580779	50.0000	52.544	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	541832			4.28- 64.28	34.28
5.764	5.764 (0.715)	41	580385			0.00- 30.00	36.72
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1218832	50.0000	49.904	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	2367014			164.20- 224.20	194.20
5.819	5.819 (0.722)	98	754913			0.00- 30.00	61.94

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	2997865	50.0000	50.907	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	2164927			0.00- 30.00	72.22
6.151	6.151 (0.763)	86	345783			0.00- 30.00	11.53
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	292986	50.0000	52.588	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	4936628			0.00- 30.00	1684.94
6.649	6.649 (0.825)	42	353469			0.00- 30.00	120.64
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2541130	50.0000	50.135	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	760396			0.00- 59.92	29.92
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	534113	50.0000	56.616	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	3644942			652.43- 712.43	682.43
7.644	7.644 (0.949)	57	249857			0.00- 30.00	46.78
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1961196	50.0000	51.777	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1085813			25.36- 85.36	55.36
7.617	7.617 (0.945)	98	687557			5.06- 65.06	35.06
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2228924	50.0000	47.386	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	472596			0.00- 51.20	21.20
8.031	8.031 (0.997)	72	529173			0.00- 30.00	23.74
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2083174	50.0000	46.148	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1339065			34.28- 94.28	64.28
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2341481	50.0000	48.855	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1501207			34.11- 94.11	64.11
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	1486540	50.0000	52.125	80.00- 120.00	100.00
8.419	8.419 (1.045)	56	2796732			158.14- 218.14	188.14
8.419	8.419 (1.045)	41	1645972			80.73- 140.73	110.73
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2276132	50.0000	45.504	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2337541			72.70- 132.70	102.70

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		
9.082	9.082 (1.127)	57	8067781	50.0000	52.022	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2677748			0.00- 30.00	33.19
9.082	9.082 (1.127)	41	2242322			0.00- 30.00	27.79
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2996149	50.0000	53.586	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	689583			0.00- 30.00	23.02
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1876728	50.0000	44.308	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	557878			0.00- 30.00	29.73
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	392730	50.0000	53.256	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	3355546			0.00- 30.00	854.42
9.469	9.469 (0.955)	71	1079906			0.00- 30.00	274.97
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1260781	50.0000	47.655	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1357068			77.64- 137.64	107.64
10.326	10.326 (1.042)	97	811923			34.40- 94.40	64.40
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1235994	50.0000	50.000	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	921285			44.54- 104.54	74.54
10.824	10.824 (1.092)	41	1018075			52.37- 112.37	82.37
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	670936	50.0000	52.293	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	688072			72.55- 132.55	102.55
11.073	11.073 (1.117)	57	223059			0.00- 30.00	33.25
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	2037979	50.0000	46.666	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1301741			33.87- 93.87	63.87
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1487086	50.0000	51.703	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	468272			1.49- 61.49	31.49
12.289	12.289 (1.240)	39	1245993			53.79- 113.79	83.79
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1226198	50.0000	53.598	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3639617			0.00- 30.00	296.82
12.594	12.594 (1.271)	85	402221			0.00- 30.00	32.80

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	3217878	50.0000	54.955	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1892152			28.80- 88.80	58.80
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1641690	50.0000	50.881	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	521026			1.74- 61.74	31.74
13.340	13.340 (0.889)	39	1225164			44.63- 104.63	74.63
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1091608	50.0000	53.150	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	684106			32.67- 92.67	62.67
13.644	13.644 (0.910)	83	891035			51.63- 111.63	81.63
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1515876	50.0000	53.228	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	1191707			48.62- 108.62	78.62
13.700	13.700 (0.913)	131	1195579			48.87- 108.87	78.87
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1669629	50.0000	52.958	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	3560612			183.26- 243.26	213.26
14.031	14.031 (0.935)	100	266790			0.00- 30.00	15.98
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2027857	50.0000	49.785	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1584738			0.00- 30.00	78.15
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1795334	50.0000	51.781	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1686891			63.96- 123.96	93.96
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2761184	50.0000	52.448	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	894768			2.41- 62.41	32.41
15.027	15.027 (1.002)	77	1652551			29.85- 89.85	59.85
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1503639	50.0000	54.635	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4765541			0.00- 30.00	316.93
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1896291	50.0000	53.462	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3886932			0.00- 30.00	204.98
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1744830	50.0000	54.404	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3805011			188.07- 248.07	218.07
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2760640	50.0000	54.272	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	1512674			24.79- 84.79	54.79
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1765730	50.0000	51.643	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	923105			22.28- 82.28	52.28
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2258721	50.0000	53.280	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1452595			34.31- 94.31	64.31
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5684251	50.0000	53.193	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1642275			0.00- 58.89	28.89
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	5203946	50.0000	52.775	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2377909			0.00- 30.00	45.69
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4219575	50.0000	50.561	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1918115			15.46- 75.46	45.46
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2717324	50.0000	51.150	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1730638			0.00- 30.00	63.69
17.764	17.764 (1.184)	111	1182563			0.00- 30.00	43.52
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3465251	50.0000	53.614	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2138791			0.00- 30.00	61.72
17.847	17.847 (1.190)	111	1483712			0.00- 30.00	42.82
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	5057414	50.0000	57.610	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	1016317			0.00- 30.00	20.10
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2803230	50.0000	50.886	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1752496			32.52- 92.52	62.52
18.206	18.206 (1.214)	111	1172151			11.81- 71.81	41.81

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		
19.478	19.478 (1.299)	180	1994567	50.0000	47.294	80.00- 120.00	100.00
19.478	19.478 (1.299)	182	1881991			64.36- 124.36	94.36
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1673438	50.0000	44.397	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	1053349			32.95- 92.95	62.95
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6031861	50.0000	53.203	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1405966			0.00- 30.00	23.31
16.824	16.824 (1.122)	105	233567			0.00- 30.00	3.87
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5571917	50.0000	52.297	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1437285			0.00- 30.00	25.80
16.326	16.326 (1.088)	51	808212			0.00- 30.00	14.51
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6969882	50.0000	53.086	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	886942			0.00- 30.00	12.73
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	1419969	50.0000	47.303	80.00- 120.00	100.00
5.571	5.571 (0.691)	41	379392			0.00- 30.00	26.72
5.571	5.571 (0.691)	57	156473			0.00- 30.00	11.02
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	447014	50.0000	46.736	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	3731324			0.00- 30.00	834.72
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2953671	50.0000	48.686	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1747537			0.00- 30.00	59.16
3.414	3.414 (0.424)	72	137219			0.00- 30.00	4.65
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	1864858	50.0000	53.372	80.00- 120.00	100.00
10.548	10.548 (1.064)	98	895570			0.00- 30.00	48.02
10.548	10.548 (1.064)	55	2396166			0.00- 30.00	128.49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022503.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 25-FEB-2008
Calibration Time: 11:11
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	403150	241890	564410	409127	1.48
92 1,4-Difluorobenze	1509597	905758	2113436	1482847	-1.77
125 Chlorobenzene-d5	1050302	630181	1470423	1050862	0.05

		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.

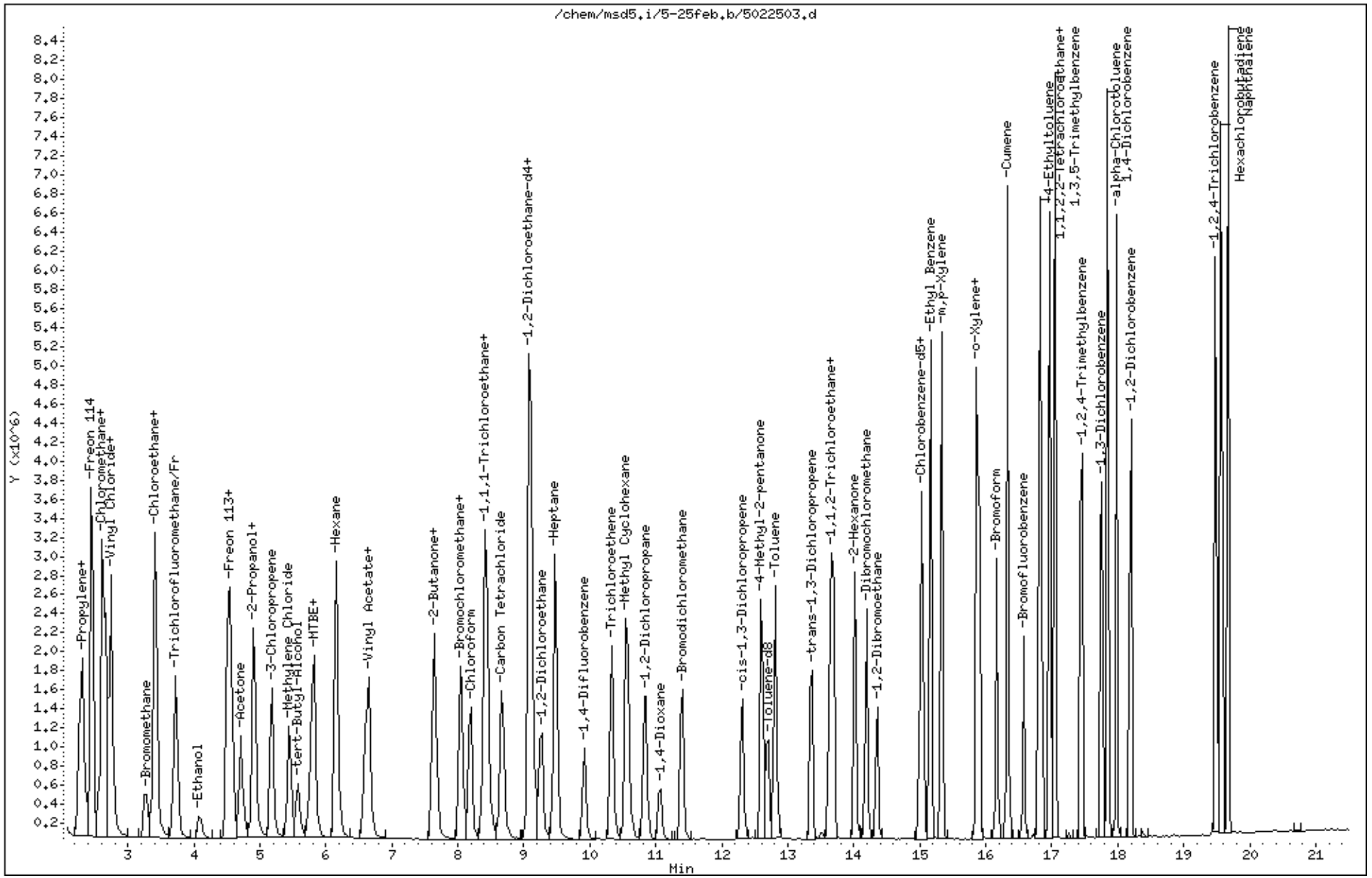
0202

Data File: /chem/msd5.i/5-25feb.b/5022503.d
Date : 25-FEB-2008 09:57
Client ID: CCV-1
Sample Info: 50mL #1576-263

Instrument: msd5.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0802295-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 10:26 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	119
Vinyl Chloride	120
Bromomethane	122
Chloroethane	122
Freon 11	103
1,1-Dichloroethene	123
Freon 113	127
Methylene Chloride	117
1,1-Dichloroethane	117
cis-1,2-Dichloroethene	120
Chloroform	112
1,1,1-Trichloroethane	114
Carbon Tetrachloride	107
Benzene	118
1,2-Dichloroethane	99
Trichloroethene	107
1,2-Dichloropropane	111
cis-1,3-Dichloropropene	115
Toluene	127
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	117
Tetrachloroethene	116
1,2-Dibromoethane (EDB)	111
Chlorobenzene	115
Ethyl Benzene	116
m,p-Xylene	114
o-Xylene	120
Styrene	117
1,1,2,2-Tetrachloroethane	121
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	131 Q
1,2-Dichlorobenzene	107
1,3-Butadiene	112
Hexane	118
Cyclohexane	123

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0802295-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5022504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/25/08 10:26 AM**	

Compound	**%Recovery**
Heptane	116
Bromodichloromethane	105
Dibromochloromethane	110
Cumene	117
Propylbenzene	117
Chloromethane	107
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	97
Acetone	116
Carbon Disulfide	125
2-Propanol	118
trans-1,2-Dichloroethene	113
2-Butanone (Methyl Ethyl Ketone)	130
Tetrahydrofuran	110
1,4-Dioxane	113
4-Methyl-2-pentanone	119
2-Hexanone	116
Bromoform	114
4-Ethyltoluene	121
Ethanol	113
Methyl tert-butyl ether	120
3-Chloropropene	121
2,2,4-Trimethylpentane	122
Naphthalene	126

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 25-Feb-2008 10:40

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/t14q221a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	53.226	106.45	70-130
9 Freon 114	50.000	59.391	118.78	70-130
10 Chloromethane	50.000	53.578	107.16	70-130
13 Vinyl Chloride	50.000	60.165	120.33	70-130
12 1,3-Butadiene	50.000	55.977	111.95	60-140
15 Bromomethane	50.000	60.751	121.50	70-130
19 Chloroethane	50.000	61.126	122.25	70-130
20 Trichlorofluoromet	50.000	51.439	102.88	70-130
26 Ethanol	50.000	56.402	112.80	60-140
30 Freon 113	50.000	63.611	127.22	70-130
31 1,1-Dichloroethene	50.000	61.556	123.11	70-130
35 Carbon Disulfide	50.000	62.623	125.25	60-140
32 Acetone	50.000	57.948	115.90	60-140
36 2-Propanol	50.000	59.062	118.12	60-140
38 3-Chloropropene	50.000	60.668	121.34	60-140
43 Methylene Chloride	50.000	58.727	117.45	70-130
46 MTBE	50.000	60.117	120.23	60-140
47 trans-1,2-Dichloro	50.000	56.647	113.29	60-140
51 Hexane	50.000	58.767	117.53	60-140
55 1,1-Dichloroethane	50.000	58.647	117.29	70-130
66 cis-1,2-Dichloroet	50.000	59.909	119.82	70-130
67 2-Butanone	50.000	65.206	130.41	60-140
70 Tetrahydrofuran	50.000	54.904	109.81	60-140
72 Chloroform	50.000	55.756	111.51	70-130
74 Cyclohexane	50.000	61.380	122.76	60-140
75 1,1,1-Trichloroeth	50.000	56.994	113.99	70-130
56 Vinyl Acetate	50.000	60.701	121.40	60-140
77 Carbon Tetrachlori	50.000	53.366	106.73	70-130
80 2,2,4-Trimethylpen	50.000	61.224	122.45	60-140
81 Benzene	50.000	59.284	118.57	70-130
85 1,2-Dichloroethane	50.000	49.340	98.68	70-130
90 Heptane	50.000	57.958	115.92	60-140
93 Trichloroethene	50.000	53.613	107.23	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	55.392	110.78	70-130
99 1,4-Dioxane	50.000	56.492	112.98	60-140
100 Bromodichlorometha	50.000	52.356	104.71	60-140
103 cis-1,3-Dichloropr	50.000	57.435	114.87	70-130
106 4-Methyl-2-pentano	50.000	59.334	118.67	60-140
108 Toluene	50.000	63.668	127.34	70-130
113 trans-1,3-Dichloro	50.000	55.326	110.65	70-130
114 1,1,2-Trichloroeth	50.000	58.700	117.40	70-130
116 Tetrachloroethene	50.000	57.885	115.77	70-130
119 2-Hexanone	50.000	58.076	116.15	60-140
120 Dibromochlorometha	50.000	54.951	109.90	60-140
122 1,2-Dibromoethane	50.000	55.300	110.60	70-130
126 Chlorobenzene	50.000	57.481	114.96	70-130
128 Ethyl Benzene	50.000	58.056	116.11	70-130
130 m,p-Xylene	50.000	57.151	114.30	70-130
132 o-Xylene	50.000	60.051	120.10	70-130
133 Styrene	50.000	58.580	117.16	70-130
134 Bromoform	50.000	57.296	114.59	60-140
136 Cumene	50.000	58.556	117.11	60-140
141 1,1,2,2-Tetrachlor	50.000	60.510	121.02	70-130
142 Propylbenzene	50.000	58.670	117.34	60-140
144 4-Ethyltoluene	50.000	60.648	121.30	60-140
147 1,3,5-Trimethylben	50.000	58.321	116.64	70-130
152 1,2,4-Trimethylben	50.000	55.170	110.34	70-130
155 1,3-Dichlorobenzen	50.000	55.638	111.28	70-130
156 1,4-Dichlorobenzen	50.000	58.082	116.16	70-130
157 alpha-Chlorotoluen	50.000	65.701	131.40*	70-130
159 1,2-Dichlorobenzen	50.000	53.672	107.34	70-130
163 1,2,4-Trichloroben	50.000	55.039	110.08	70-130
164 Hexachlorobutadien	50.000	48.737	97.47	70-130
6 Propylene	50.000	60.924	121.85	70-130
165 Naphthalene	50.000	62.801	125.60	60-140
11 Butane	50.000	54.730	109.46	70-130
17 Isopentane	50.000	54.411	108.82	70-130
94 Methyl Cyclohexane	50.000	58.468	116.94	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	22.406	89.62	70-130
$ 107 Toluene-d8	25.000	25.719	102.88	70-130
$ 138 Bromofluorobenzene	25.000	24.453	97.81	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-25feb.b/5022504.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 25-FEB-2008 10:26
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #1576-260A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /var/chem/msd5.i/5-25feb.b/t14q221a.m
Meth Date : 25-Feb-2008 10:24 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.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	376664	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	305289			45.17- 105.17	81.05
8.059	8.059 (1.000)	49	917402			184.09- 244.09	243.56
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1466935	25.0000		80.00- 120.00	100.00
9.911	9.912 (1.000)	88	243491			0.00- 45.36	16.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1040449	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	601058			0.00- 30.00	57.77
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	641317	22.4057	22.406	80.00- 120.00	100.00
9.110	9.110 (1.130)	67	344228			19.51- 79.51	53.68
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1383436	25.7190	25.719	80.00- 120.00	100.00
12.676	12.704 (1.279)	70	147548			0.00- 41.02	10.67

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	936464			39.73- 99.73	67.69
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	661924	24.4534	24.453	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	923342			110.96- 170.96	139.49
16.575	16.575 (1.105)	176	642522			64.94- 124.94	97.07
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1923394	60.9245	60.924	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	1264660			0.00- 30.00	65.75
2.253	2.253 (0.280)	39	1283229			0.00- 30.00	66.72
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	3143847	53.2258	53.226	80.00- 120.00	100.00
2.308	2.308 (0.286)	87	1006673			0.00- 30.00	32.02
9 Freon 114					CAS #: 76-14-2		
2.474	2.446 (0.307)	135	2606311	59.3908	59.391	80.00- 120.00	100.00
2.474	2.446 (0.307)	137	825903			1.17- 61.17	31.69
10 Chloromethane					CAS #: 74-87-3		
2.612	2.557 (0.324)	50	2277312	53.5784	53.578	80.00- 120.00	100.00
2.584	2.557 (0.321)	52	648351			0.00- 30.00	28.47
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1839906	60.1655	60.165	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	532131			0.00- 30.00	28.92
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1794313	55.9768	55.977	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	2107178			0.00- 30.00	117.44
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1022591	60.7512	60.751	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	961576			62.74- 122.74	94.03
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	917268	61.1258	61.126	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	318543			0.00- 30.00	34.73
3.414	3.414 (0.424)	66	282893			0.00- 30.00	30.84
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	3374933	51.4390	51.439	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	2206985			36.51- 96.51	65.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.078 (0.509)	45	754296	56.4019	56.402	80.00- 120.00	100.00
4.105	4.078 (0.509)	43	141945			0.00- 30.00	18.82
4.105	4.078 (0.509)	46	322007			0.00- 30.00	42.69
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	2126685	63.6108	63.611	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1354268			32.85- 92.85	63.68
4.520	4.520 (0.561)	101	2623947			93.70- 153.70	123.38
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2851558	61.5563	61.556	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1321635			15.20- 75.20	46.35
4.575	4.575 (0.568)	98	840227			0.00- 58.68	29.47
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	878496	57.9475	57.948	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	3046307			0.00- 30.00	346.76
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	3802091	59.0624	59.062	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	815169			0.00- 30.00	21.44
4.907	4.907 (0.609)	59	123308			0.00- 30.00	3.24
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3474309	62.6232	62.623	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.184 (0.643)	76	608067	60.6686	60.668	80.00- 120.00	100.00
5.183	5.184 (0.643)	41	2853503			0.00- 30.00	469.27
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.432 (0.677)	49	2377257	58.7269	58.727	80.00- 120.00	100.00
5.460	5.432 (0.677)	84	1075572			14.02- 74.02	45.24
5.460	5.432 (0.677)	51	730333			0.00- 30.00	30.72
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1665085	60.1166	60.117	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	551893			4.28- 64.28	33.15
5.764	5.764 (0.715)	41	569326			0.00- 30.00	34.19
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1273747	56.6467	56.647	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	2507547			164.20- 224.20	196.86
5.819	5.819 (0.722)	98	813331			0.00- 30.00	63.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	3186157	58.7672	58.767	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	2317087			0.00- 30.00	72.72
6.151	6.151 (0.763)	86	389213			0.00- 30.00	12.22
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	311354	60.7013	60.701	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	5303987			0.00- 30.00	1703.52
6.649	6.649 (0.825)	42	397844			0.00- 30.00	127.78
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2736723	58.6470	58.647	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	834373			0.00- 59.92	30.49
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	566341	65.2063	65.206	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	3944837			652.43- 712.43	696.55
7.644	7.644 (0.949)	57	295549			0.00- 30.00	52.19
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2089150	59.9089	59.909	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1192727			25.36- 85.36	57.09
7.617	7.617 (0.945)	98	758872			5.06- 65.06	36.32
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2377637	54.9042	54.904	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	493832			0.00- 51.20	20.77
8.031	8.031 (0.997)	72	558941			0.00- 30.00	23.51
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2317201	55.7564	55.756	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1481825			34.28- 94.28	63.95
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2514852	56.9944	56.994	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1563978			34.11- 94.11	62.19
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.419 (1.045)	84	1611592	61.3800	61.380	80.00- 120.00	100.00
8.418	8.419 (1.045)	56	3078329			158.14- 218.14	191.01
8.391	8.419 (1.041)	41	1728500			80.73- 140.73	107.25
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2457588	53.3656	53.366	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2542729			72.70- 132.70	103.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	8741477	61.2240	61.224	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2820770			0.00- 30.00	32.27
9.082	9.082 (1.127)	41	2390113			0.00- 30.00	27.34
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3279146	59.2835	59.284	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	762308			0.00- 30.00	23.25
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.276 (0.936)	62	2067434	49.3396	49.340	80.00- 120.00	100.00
9.275	9.276 (0.936)	64	633947			0.00- 30.00	30.66
90 Heptane					CAS #: 142-82-5		
9.469	9.497 (0.955)	100	422812	57.9576	57.958	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	3654879			0.00- 30.00	864.42
9.469	9.469 (0.955)	71	1186559			0.00- 30.00	280.64
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1403203	53.6132	53.613	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1463190			77.64- 137.64	104.28
10.326	10.326 (1.042)	97	903177			34.40- 94.40	64.37
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.852 (1.092)	63	1354573	55.3916	55.392	80.00- 120.00	100.00
10.824	10.852 (1.092)	62	1004399			44.54- 104.54	74.15
10.824	10.824 (1.092)	41	1104594			52.37- 112.37	81.55
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	717026	56.4916	56.492	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	775650			72.55- 132.55	108.18
11.073	11.073 (1.117)	57	231181			0.00- 30.00	32.24
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	2261922	52.3562	52.356	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1431473			33.87- 93.87	63.29
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1634228	57.4349	57.435	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	515120			1.49- 61.49	31.52
12.289	12.289 (1.240)	39	1330942			53.79- 113.79	81.44
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.594 (1.271)	58	1342842	59.3337	59.334	80.00- 120.00	100.00
12.593	12.594 (1.271)	43	4032593			0.00- 30.00	300.30
12.593	12.594 (1.271)	85	427521			0.00- 30.00	31.84

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	3688053	63.6678	63.668	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	2168482			28.80- 88.80	58.80
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1767443	55.3266	55.326	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	563019			1.74- 61.74	31.86
13.340	13.340 (0.889)	39	1291151			44.63- 104.63	73.05
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1193663	58.7004	58.700	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	745010			32.67- 92.67	62.41
13.644	13.644 (0.910)	83	964112			51.63- 111.63	80.77
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.700 (0.913)	166	1632155	57.8848	57.885	80.00- 120.00	100.00
13.699	13.700 (0.913)	129	1343730			48.62- 108.62	82.33
13.699	13.700 (0.913)	131	1294949			48.87- 108.87	79.34
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1812847	58.0764	58.076	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	3837880			183.26- 243.26	211.70
14.004	14.031 (0.934)	100	288139			0.00- 30.00	15.89
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2216118	54.9510	54.951	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1730888			0.00- 30.00	78.10
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1898319	55.2996	55.300	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1794568			63.96- 123.96	94.53
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2996185	57.4811	57.481	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	966710			2.41- 62.41	32.26
15.027	15.027 (1.002)	77	1752162			29.85- 89.85	58.48
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1581949	58.0561	58.056	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	5050150			0.00- 30.00	319.24
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2007056	57.1511	57.151	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	4170409			0.00- 30.00	207.79
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1906875	60.0514	60.051	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	4236465			188.07- 248.07	222.17
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	2950259	58.5805	58.580	80.00- 120.00	100.00
15.911	15.912 (1.061)	78	1617621			24.79- 84.79	54.83
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1939576	57.2956	57.296	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	1002276			22.28- 82.28	51.68
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2539827	60.5100	60.510	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1611841			34.31- 94.31	63.46
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	6416716	60.6486	60.648	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1822593			0.00- 58.89	28.40
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	5693762	58.3207	58.321	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2593933			0.00- 30.00	45.56
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4558609	55.1699	55.170	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	2070517			15.46- 75.46	45.42
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2926449	55.6379	55.638	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1875622			0.00- 30.00	64.09
17.764	17.764 (1.184)	111	1274168			0.00- 30.00	43.54
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3716832	58.0821	58.082	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2308615			0.00- 30.00	62.11
17.847	17.847 (1.190)	111	1598339			0.00- 30.00	43.00
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	5710546	65.7014	65.701	80.00- 120.00	100.00(R)
17.985	17.985 (1.199)	126	1131038			0.00- 30.00	19.81
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2927421	53.6723	53.672	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1855782			32.52- 92.52	63.39
18.206	18.206 (1.214)	111	1244102			11.81- 71.81	42.50

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		
19.478	19.478 (1.299)	180	2298207	55.0393	55.039	80.00- 120.00	100.00
19.478	19.478 (1.299)	182	2163331			64.36- 124.36	94.13
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1818818	48.7372	48.737	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	1123801			32.95- 92.95	61.79
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6585724	58.6698	58.670	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1543004			0.00- 30.00	23.43
16.824	16.824 (1.122)	105	261790			0.00- 30.00	3.98
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	6176916	58.5557	58.556	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1638260			0.00- 30.00	26.52
16.326	16.326 (1.088)	51	907655			0.00- 30.00	14.69
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	8163791	62.8013	62.801	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	1027244			0.00- 30.00	12.58
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.571 (0.691)	59	1430557	51.7628	51.763	80.00- 120.00	100.00
5.570	5.571 (0.691)	41	370884			0.00- 30.00	25.93
5.570	5.571 (0.691)	57	146285			0.00- 30.00	10.23
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	481938	54.7296	54.730	80.00- 120.00	100.00
2.695	2.667 (0.334)	43	4004355			0.00- 30.00	830.89
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	3039090	54.4112	54.411	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1847252			0.00- 30.00	60.78
3.414	3.414 (0.424)	72	144832			0.00- 30.00	4.77
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.548 (1.064)	83	2021020	58.4685	58.468	80.00- 120.00	100.00
10.547	10.548 (1.064)	98	999090			0.00- 30.00	49.43
10.547	10.548 (1.064)	55	2620327			0.00- 30.00	129.65

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022504.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-25feb.b/t14q221a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 25-FEB-2008
Calibration Time: 09:57
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	409127	245476	572778	376664	-7.93
92 1,4-Difluorobenze	1482847	889708	2075986	1466935	-1.07
125 Chlorobenzene-d5	1050862	630517	1471207	1040449	-0.99

		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.

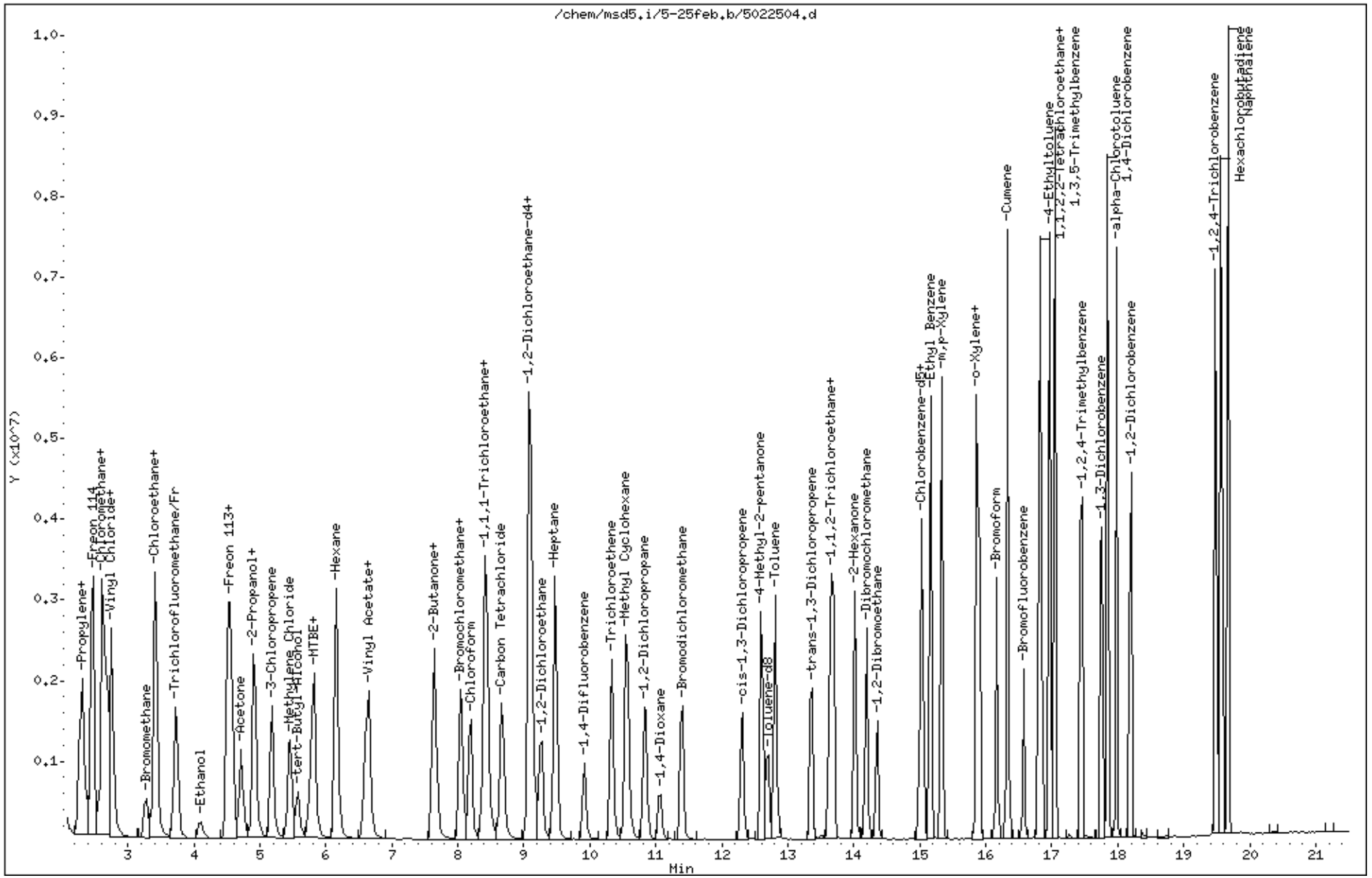
0216

Data File: /chem/msd5.i/5-25feb.b/5022504.d
Date : 25-FEB-2008 10:26
Client ID: LCS-1
Sample Info: 100mL #1576-260A

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.31
75	30.0 – 60.0% of mass 95	49.50
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.25
173	Less than 2.0% of mass 174	(1.04)[1]
174	Greater than 50.0% of mass 95	72.99
175	5.0 – 9.0% of mass 174	(7.74)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.22)[1]
177	5.0 – 9.0% of mass 176	(6.56)[2]

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

Verify 176/174 m/z Ratio: 1847650 / 1900532 x100 = 97.22%

BFB Injection Date: 2/25/08

BFB Injection Time: 0850

BFB File ID: 5022501

Tekmar Purge Flow: 13.4 mL/min

Vacuum: 6.45 x 10^{-6} torr

IS/S Std.#:	1576-298	Exp. Date: 5-20-08
BCM	409127	
1,4-DFB	1482847	
CB-d5	1050862	

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

NOAH Cart #: 14/11 **File #:** 5022506 / 5022507

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1342142\ )}{(\ 1482847\ )} \times \frac{(\ 25.0\ )}{(\ 0.91671\ )} =$ 24.684

Reported Result 24.684

File ID:	5022503
Compound:	toluene-d8
Initials:	CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5022501	BFB Tune Check	1476-191	50mg	2uL	1.00	2/25/08	0850	CB	
2	✓	02	System Blank	12941	Humid	200mL			0920	CB	
3	✓	03	CCV-1 (200ppbv)	1576-263	50ppbv	50mL			0957	CB	
4	✓	04	LCS-1 (100ppbv)	1576-260A	↓	100mL			1026	CB	
5	✓	05	CCVsp (200ppbv)	1576-299	↓	50mL			1111	CB	sp17a CCV
6	✓	06	Lab Blank	12941	Humid	200mL			1201	CB	Cert Cart #14 Lg 8
7	✓	07	Cert Cart #11 Lg1	↓	↓	↓	↓		1251	CB	
8	✓	08	0802424A-01A	34238	5.5"Hg-5psi	200mL	1.64		1523	CB	
9	✓	09	↓ -02A	35616	0.0"Hg-15psi	↓	2.52	✓	1555	CB	

Signature

2/25/08
Date

0217

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	50225 10	0802389-01A	30826	30"Hg-15psi	200mL	2.24	2-25-08	1809	MS		
11	✓	11	02A	1035	25"Hg-15psi	100mL	4.40		1838	MS		
12	X	12	02AA	↓	↓	↓	4.40		1935	MS		
13	✓	13	0802295-01A	33775	8.5"Hg-5psi	200mL	1.87		2008	MS		
14	✓	14	01AA	↓	↓		↓		2041	MS		
15	✓	15	02A	13849	2.5"Hg		1.96		2113	MS		
16	✓	16	03A	34228	9.0"Hg		1.91		2146	MS		
17	✓	17	04A	30837	4.0"Hg	↓	1.00		2218	KR		
18	X	18	0802389-02A	1035	25"Hg-15psi	200mL	~~2.20~~ 4.40		2357	KR		
19	✓	19	↓ -02AA	1035	~~25"Hg-15psi~~ 35"Hg-15psi	200mL	5.04	2-26-08	0122	KR		
20	✓	20	0802326-01A	35136	2.5"Hg-5psi	200mL	~~1.96~~ 2.44		0228	KR		
21	✓	21	-01AA	↓	↓		↓		0300	KR		
22	✓	22	-02A	4230	6.5"Hg		1.71		0333	KR		
23	✓	23	-03A	33965	4.5"Hg		1.58		0405	KR		
24	✓	24	-04A	33934	7.0"Hg		1.75		0438	KR		
25	✓	25	-05A	13860	2.0"Hg		1.44		0510	KR		
26	✓	26	0802369-01A	34396	0.0"Hg		1.34		0543	KR		
27	✓	27	↓ -01AA	↓	↓	↓	↓		0615	KR		
28	X	28	↓ -02A	94607	7.0"Hg	1mL	350		0643	SO	RR 5mL	
29	X	29	0802421-01A	35561	5.0"Hg-15psi	10mL	48.4		0714	SO	RR 100mL	
30	✓	30	0802386-02A	94607	7.0"Hg-5psi	5mL	70.0		0755	SO/CB	dil due to NT	
31		31	0802421-01A	35561	5.0"Hg-15psi	100mL	4.84					
32												

0218

Comments:

Signature

8/2 7/26/08
Date

CB 7/26/08

Air Toxics Ltd.

Data file : /chem/msd5.i/5-21feb.b/5022114.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 21-FEB-2008 17:16
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-21feb.b/bfb30.m
Meth Date : 21-Feb-2008 17:05 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		
3.803	3.900	-0.097	95	1380629			100.00- 100.00	100.00
3.803	3.900	-0.097	50	436660			15.00- 40.00	31.63
3.803	3.900	-0.097	75	771553			30.00- 60.00	55.88
3.803	3.900	-0.097	96	89970			5.00- 9.00	6.52
3.803	3.900	-0.097	173	10425			0.00- 2.00	1.14
3.803	3.900	-0.097	174	917973			50.00- 100.00	66.49
3.803	3.900	-0.097	175	64933			5.00- 9.00	7.07
3.803	3.900	-0.097	176	902928			95.00- 101.00	98.36
3.803	3.900	-0.097	177	56630			5.00- 9.00	6.27

Data File: /chem/msd5.i/5-21feb.b/5022114.d

Date : 21-FEB-2008 17:16

Client ID: BFB

Instrument: msd5.i

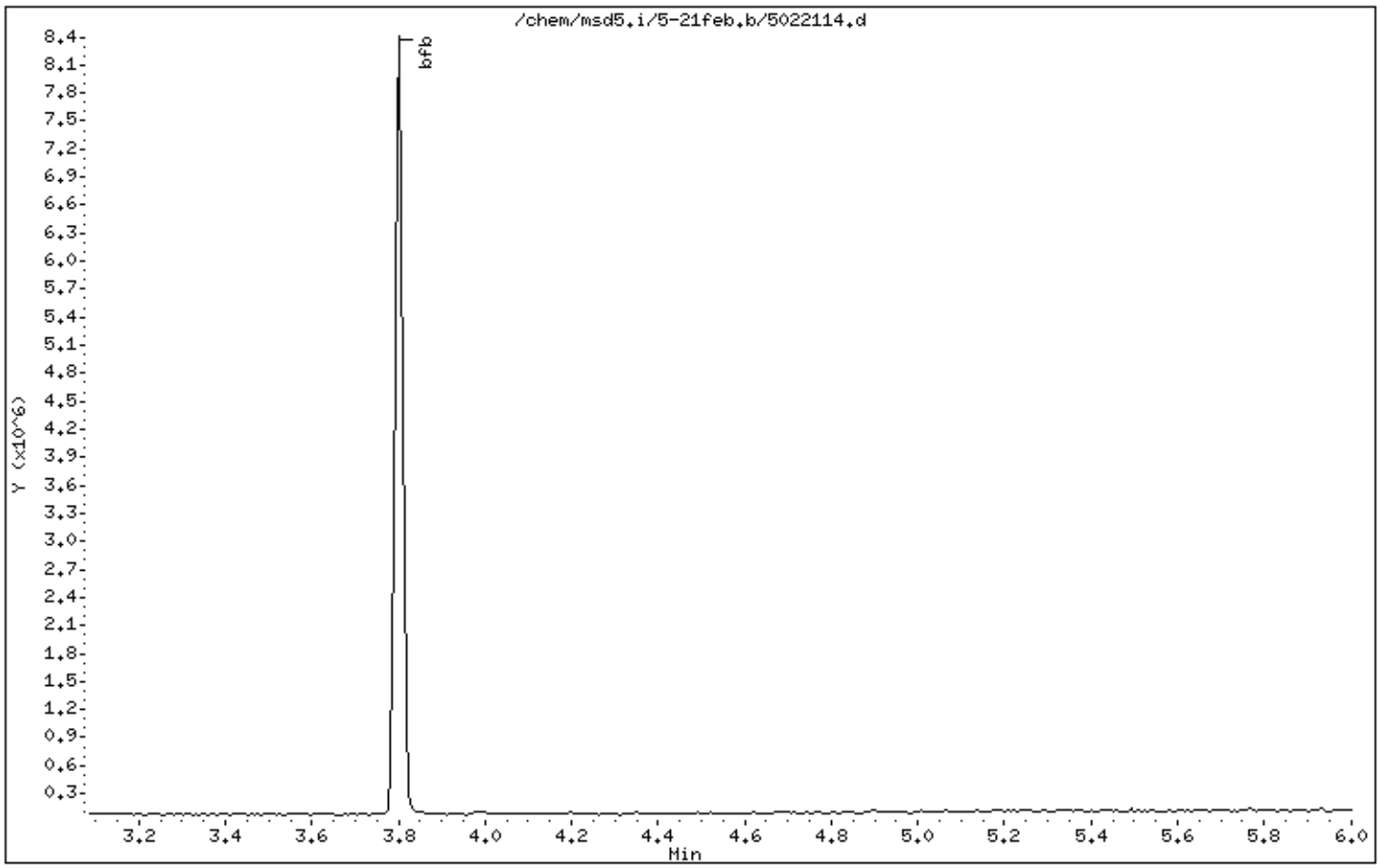
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-21feb.b/5022114.d

Date : 21-FEB-2008 17:16

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

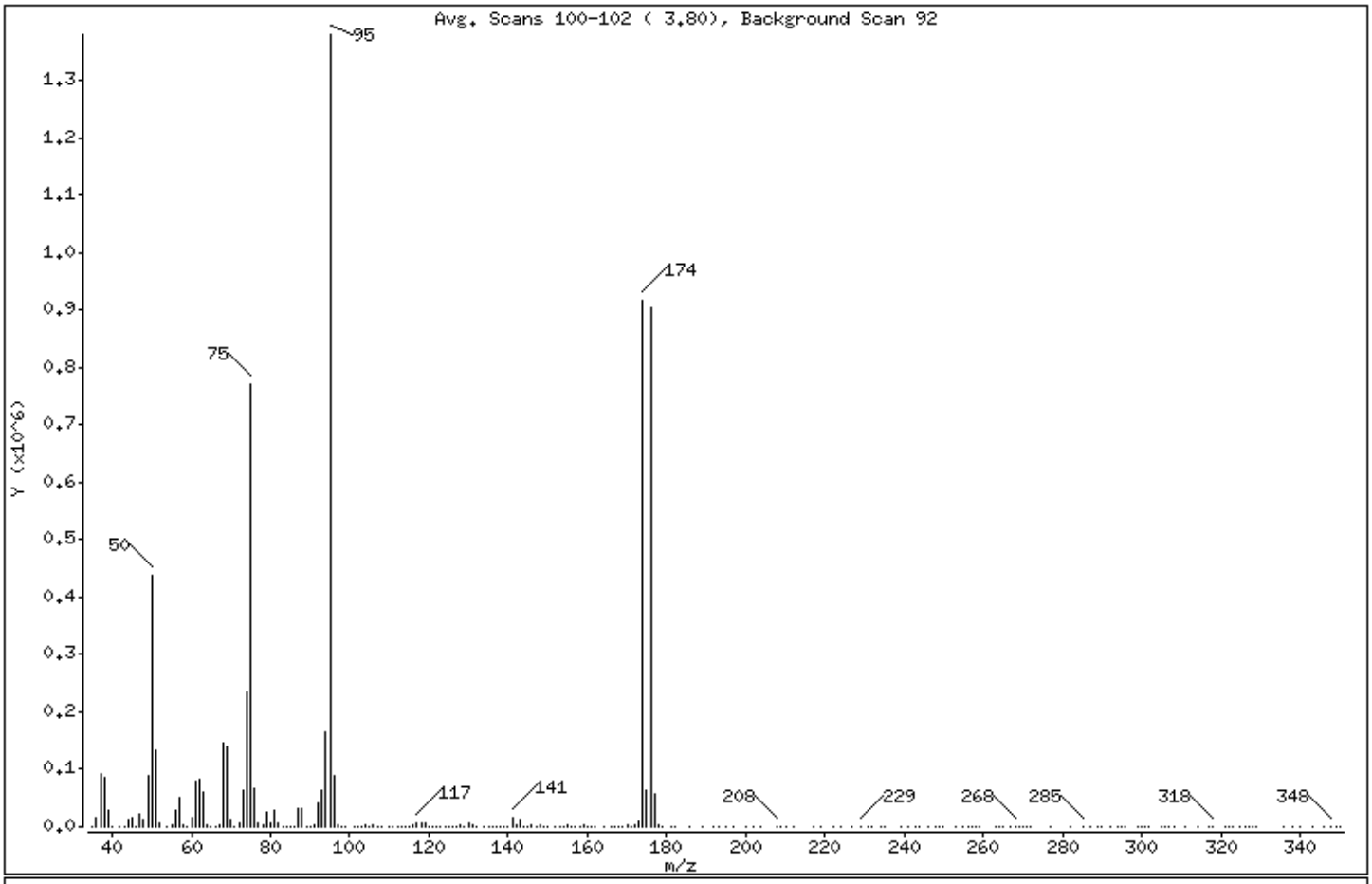
Volume Injected (uL): 1.0

Operator: srs

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	31.63
75	30.00 - 60.00% of mass 95	55.88
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.76 (1.14)
174	50.00 - 100.00% of mass 95	66.49
175	5.00 - 9.00% of mass 174	4.70 (7.07)
176	95.00 - 101.00% of mass 174	65.40 (98.36)
177	5.00 - 9.00% of mass 176	4.10 (6.27)

Date : 21-FEB-2008 17:16

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5022114.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	53	93.00	63968	153.00	879	249.00	238
36.00	15800	94.00	165184	154.00	964	250.00	209
37.00	93544	95.00	1380352	155.00	3827	253.00	428
38.00	84920	96.00	89968	156.00	209	255.00	180
39.00	29824	97.00	2415	157.00	1169	256.00	485
40.00	445	98.00	71	158.00	183	257.00	50
42.00	736	99.00	298	159.00	1947	258.00	381
43.00	533	101.00	165	160.00	261	259.00	169
44.00	13317	102.00	85	161.00	365	263.00	4
45.00	14781	103.00	128	162.00	630	264.00	262
46.00	720	104.00	4738	164.00	525	265.00	204
47.00	20672	105.00	1566	166.00	423	267.00	41
48.00	13105	106.00	4008	167.00	782	268.00	583
49.00	88992	107.00	1514	168.00	529	269.00	227
50.00	436608	108.00	165	169.00	981	270.00	115
51.00	134080	110.00	19	170.00	2232	271.00	275
52.00	5136	111.00	1052	171.00	1469	272.00	397
54.00	392	112.00	744	172.00	3157	277.00	185
55.00	4452	113.00	1157	173.00	10425	282.00	162
56.00	27256	114.00	201	174.00	917952	285.00	455
57.00	51224	115.00	1118	175.00	64928	287.00	192
58.00	1700	116.00	3963	176.00	902912	289.00	297
59.00	1292	117.00	6381	177.00	56624	290.00	115
60.00	17064	118.00	4814	178.00	1674	292.00	285
61.00	80376	119.00	5004	179.00	282	294.00	225
62.00	82440	120.00	564	181.00	215	295.00	310
63.00	61728	121.00	339	182.00	161	296.00	321
64.00	4719	122.00	170	186.00	224	299.00	85
65.00	655	123.00	741	189.00	126	300.00	55
66.00	12	124.00	1029	192.00	30	301.00	118
67.00	3963	125.00	637	193.00	511	302.00	208
68.00	145984	126.00	639	195.00	67	305.00	143
69.00	140992	127.00	579	197.00	50	306.00	99
70.00	11901	128.00	4753	200.00	161	307.00	401
71.00	545	129.00	1527	202.00	174	308.00	165

Data File: /chem/msd5.i/5-21feb.b/5022114.d

Date : 21-FEB-2008 17:16

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

Data File: 5022114.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	7058	130.00	5086	204.00	253	311.00	357
73.00	62672	131.00	3518	208.00	538	314.00	133
74.00	235520	132.00	472	209.00	232	317.00	164
75.00	771520	134.00	455	210.00	146	318.00	477
76.00	65424	135.00	1116	212.00	125	321.00	199
77.00	6460	136.00	681	217.00	136	322.00	39
78.00	3145	137.00	942	219.00	133	323.00	111
79.00	24888	138.00	165	222.00	61	325.00	240
80.00	6403	139.00	768	224.00	143	326.00	90
81.00	27024	140.00	1569	227.00	252	327.00	401
82.00	6042	141.00	14704	229.00	481	328.00	78
83.00	808	142.00	2165	231.00	156	329.00	119
84.00	223	143.00	13317	232.00	162	336.00	420
85.00	27	144.00	1326	234.00	101	338.00	78
86.00	324	145.00	1165	235.00	316	340.00	143
87.00	32008	146.00	2216	239.00	81	343.00	179
88.00	30984	147.00	365	241.00	330	346.00	342
89.00	723	148.00	3081	243.00	471	348.00	441
90.00	276	149.00	1108	244.00	60	349.00	233
91.00	3828	150.00	1394	246.00	225	350.00	99
92.00	40992	152.00	271	248.00	489		

Air Toxics Ltd.

Data file : /chem/msd5.i/5-25feb.b/5022501.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 25-FEB-2008 08:50
Operator : cb Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-25feb.b/bfb30.m
Meth Date : 25-Feb-2008 08:39 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	2603858			100.00- 100.00	100.00
3.796	3.900	-0.104	50	711224			15.00- 40.00	27.31
3.796	3.900	-0.104	75	1289033			30.00- 60.00	49.50
3.796	3.900	-0.104	96	162845			5.00- 9.00	6.25
3.796	3.900	-0.104	173	19722			0.00- 2.00	1.04
3.796	3.900	-0.104	174	1900532			50.00- 100.00	72.99
3.796	3.900	-0.104	175	147085			5.00- 9.00	7.74
3.796	3.900	-0.104	176	1847650			95.00- 101.00	97.22
3.796	3.900	-0.104	177	121172			5.00- 9.00	6.56

Data File: /chem/msd5.i/5-25feb.b/5022501.d

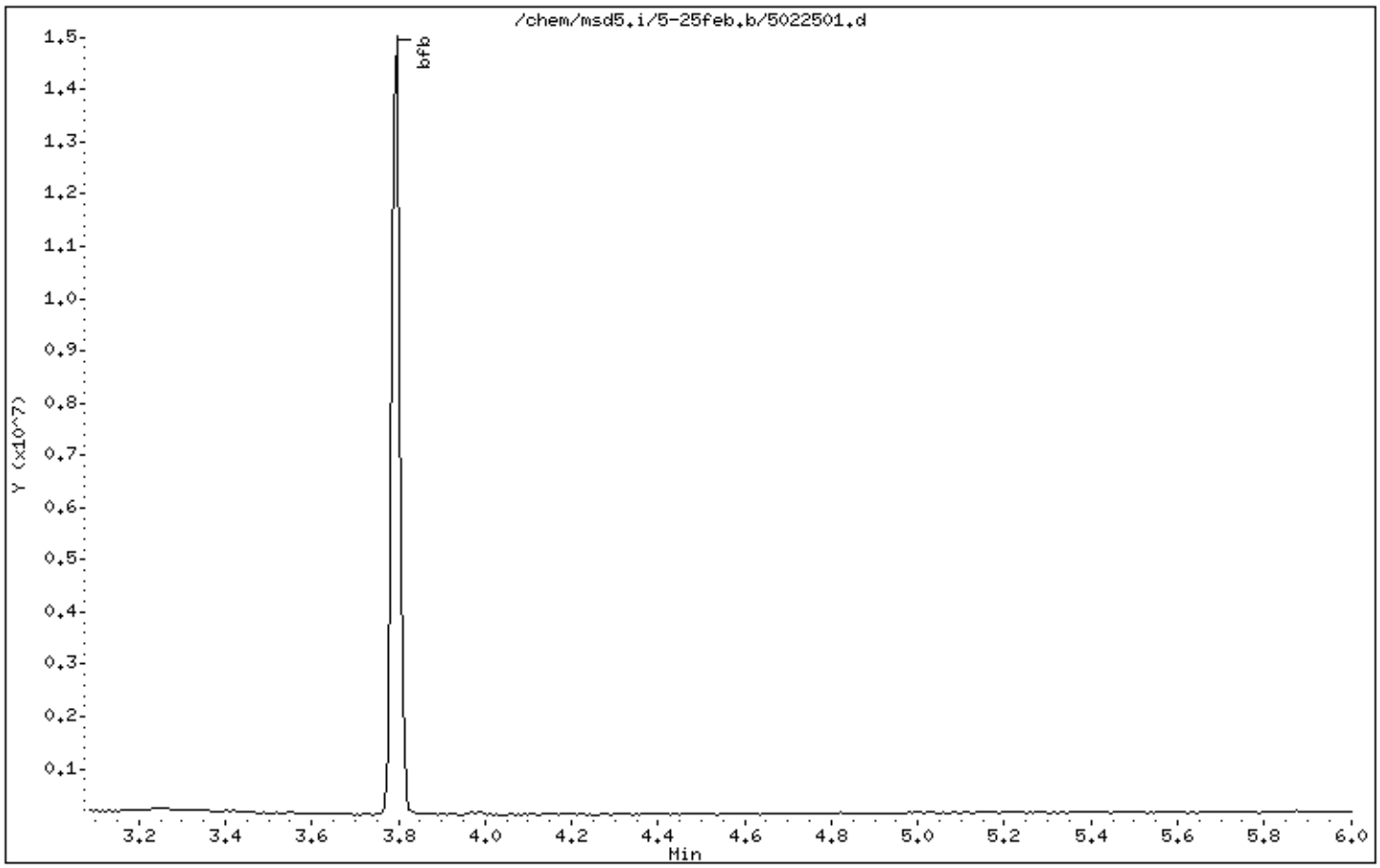
Date : 25-FEB-2008 08:50

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00



Data File: /chem/msd5.i/5-25feb.b/5022501.d

Date : 25-FEB-2008 08:50

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

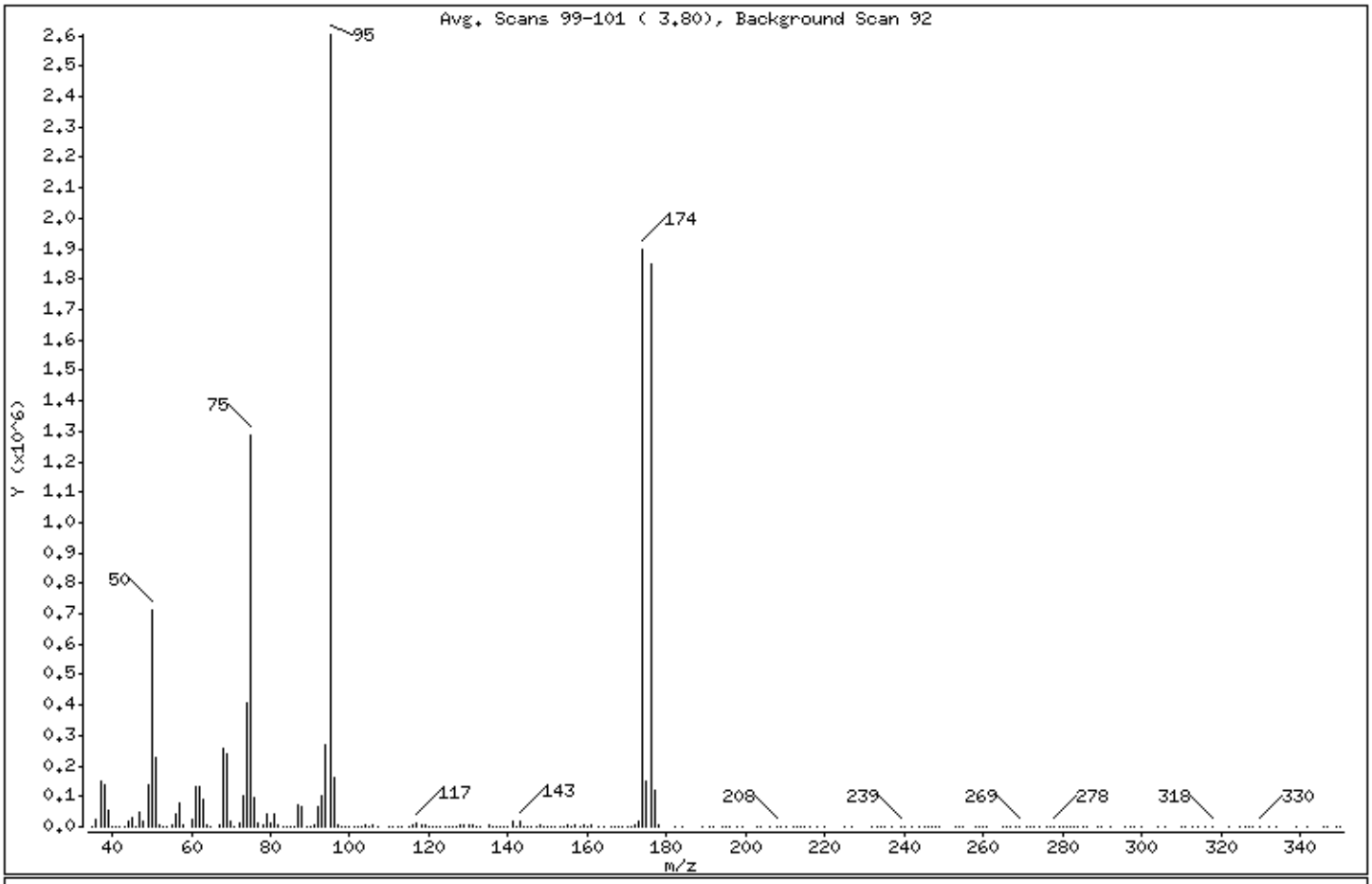
Volume Injected (uL): 1.0

Operator: cb

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	27.31
75	30.00 - 60.00% of mass 95	49.50
96	5.00 - 9.00% of mass 95	6.25
173	Less than 2.00% of mass 174	0.76 (1.04)
174	50.00 - 100.00% of mass 95	72.99
175	5.00 - 9.00% of mass 174	5.65 (7.74)
176	95.00 - 101.00% of mass 174	70.96 (97.22)
177	5.00 - 9.00% of mass 176	4.65 (6.56)

Data File: /chem/msd5.i/5-25feb.b/5022501.d

Date : 25-FEB-2008 08:50

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5022501.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 231

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	360	95.00	2603520	157.00	3158	249.00	59
36.00	23872	96.00	162816	158.00	233	253.00	769
37.00	150208	97.00	5354	159.00	3311	254.00	93
38.00	135168	98.00	501	160.00	179	255.00	258
39.00	52232	99.00	120	161.00	3343	258.00	292
40.00	1549	100.00	342	163.00	50	259.00	270
41.00	1061	101.00	530	164.00	571	260.00	109
42.00	864	102.00	360	166.00	401	261.00	582
43.00	651	103.00	883	167.00	137	265.00	5
44.00	17064	104.00	6999	168.00	879	266.00	155
45.00	28656	105.00	2741	169.00	1897	267.00	201
46.00	1394	106.00	7835	170.00	1617	268.00	130
47.00	45544	107.00	1784	171.00	1226	269.00	1224
48.00	19672	110.00	1241	172.00	4038	271.00	47
49.00	139200	111.00	1762	173.00	19720	272.00	404
50.00	711168	112.00	1203	174.00	1900032	273.00	263
51.00	225344	113.00	1730	175.00	147072	274.00	177
52.00	7757	115.00	1779	176.00	1847296	276.00	149
53.00	810	116.00	6659	177.00	121168	277.00	187
54.00	225	117.00	11985	178.00	3521	278.00	454
55.00	8266	118.00	7468	182.00	462	279.00	224
56.00	43368	119.00	8974	184.00	388	280.00	330
57.00	79504	120.00	127	189.00	3	281.00	447
58.00	3329	121.00	192	191.00	148	282.00	443
60.00	23328	122.00	610	192.00	595	283.00	2
61.00	134400	123.00	1115	194.00	245	284.00	98
62.00	131072	124.00	2092	195.00	237	285.00	448
63.00	89832	125.00	232	196.00	196	286.00	242
64.00	7794	126.00	150	198.00	217	289.00	194
65.00	481	127.00	753	199.00	222	290.00	97
67.00	7149	128.00	7699	203.00	509	292.00	61
68.00	255552	129.00	3539	204.00	197	296.00	212
69.00	240576	130.00	7942	206.00	236	297.00	243
70.00	17792	131.00	3732	208.00	683	298.00	205
71.00	714	132.00	475	209.00	414	300.00	63

Date : 25-FEB-2008 08:50

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5022501.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 231

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	11435	133.00	515	210.00	402	304.00	231
73.00	102352	135.00	3528	212.00	208	306.00	206
74.00	405568	136.00	114	213.00	557	310.00	62
75.00	1288704	137.00	2665	214.00	308	311.00	393
76.00	98008	138.00	486	215.00	564	313.00	508
77.00	10628	139.00	939	216.00	131	314.00	145
78.00	6383	140.00	2095	218.00	166	316.00	115
79.00	40304	141.00	17032	220.00	275	318.00	706
80.00	11593	142.00	2233	225.00	282	322.00	41
81.00	44528	143.00	20440	227.00	108	325.00	216
82.00	7077	144.00	1661	232.00	341	326.00	71
83.00	1024	145.00	2320	233.00	171	327.00	208
84.00	308	146.00	2664	234.00	197	328.00	242
85.00	48	147.00	1523	235.00	103	330.00	412
86.00	649	148.00	4970	237.00	183	332.00	401
87.00	69704	149.00	857	239.00	498	334.00	88
88.00	64160	150.00	2038	240.00	122	339.00	188
89.00	1444	151.00	582	242.00	277	342.00	195
90.00	644	152.00	1126	244.00	132	346.00	69
91.00	5261	153.00	2156	245.00	367	347.00	240
92.00	68200	154.00	1014	246.00	129	349.00	319
93.00	103912	155.00	4954	247.00	301	350.00	136
94.00	270528	156.00	105	248.00	148		

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 #: 0802295
# of pages (Including Cover): 1

3/4/2008

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

0231

Contact		**Project Info:**	**Turn Around Time:**
Company	GEI Consultants, Inc.	P.O. #	
Address	455 Winding Brook Glastonbury CT 06033	Project # 061140 - 8 - 1703	☒ Normal
Phone	860-368-5300 Cell:	Project Name BayShore OU1 Southern cell Air Monitoring	☐ Rush _____ Specify
Collected By: Signature:			

Lab I.D.	Field Sample I.D.	Can #	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UW AMS 5	3377S	02/12/08 0610/1416	TO-15 + Naphthalene	-28.0	-7.5	
02A	DW AMS 3	13844	02/13/08 0610/1415	TO-15 + Naphthalene	-28.3	-1.0	
03A	XX AMS X	34228	02/13/08 0610/1415	TO-15 + NAPHTHALENE	-28.3	-8.5	
04A		30857		TRIP BLANK			

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
[signature] 2/14/08 1500	
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
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 1764 5576	MG	N/A	Good	Yes No None	0802295

Received by fax on 2/15/08 Monica Bregen

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0802295

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: 03/03/08
Date Completed: 2/29/08
Date Received: 2/15/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 1,268.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS 5	Modified TO-15	2/13/2008	8.5 "Hg	$225.00
01AA	UW AMS 5 Lab Duplicate	Modified TO-15	2/13/2008	8.5 "Hg	$0.00
02A	DW AMS 3	Modified TO-15	2/13/2008	2.5 "Hg	$225.00
03A	XXAMS X	Modified TO-15	2/13/2008	9.0 "Hg	$225.00
04A	TRIP BLANK	Modified TO-15	NA	4.4 psi	$225.00
05A	Lab Blank	Modified TO-15	NA	NA	$0.00
06A	CCV	Modified TO-15	NA	NA	$0.00
07A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each., Shipment 54021	$50.00
	6 Liter Summa Canister (100% Certified) (3) @ $65.00 each., Shipment 54	$195.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 54021	$70.00
	Blue Body Flow Controller (100% Certified) (1) @ $40.00 each., Shipmen	$40.00
	Fuel Surcharge (4) @ $2.00 each.	$8.00
	Duplicate Sampling T (100% Certified) (1) @ $5.00 each.	$5.00

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

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

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	

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F020107; 6L#13844 w/10.2ml+T:1
Date: 2/1/2008 12:02:30

Peak #	#	Quantification	CAS	Type	Concentration	Units
	1	Propylene	0-00-0	Not Found		ppbv
	2	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		ppbv
	3	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	4	Freon 12	0-00-0	Not Found		ppbv
	5	Isobutane	0-00-0	Not Found		ppbv
	6	Freon 114	0-00-0	Not Found		ppbv
	7	Chloromethane	0-00-0	Not Found		ppbv
	8	Butane	0-00-0	Not Found		ppbv
	9	Vinyl Chloride	0-00-0	Not Found		ppbv
	10	1,3-Butadiene	0-00-0	Not Found		ppbv
	11	Bromomethane	0-00-0	Not Found		ppbv
	12	Chloroethane	0-00-0	Not Found		ppbv
	14	Vinyl bromide	0-00-0	Not Found		ppbv
	16	Ethanol	0-00-0	Not Found		ppbv
	17	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	22	2-Propanol	0-00-0	Not Found		ppbv
	23	3-Chloropropene	0-00-0	Not Found		ppbv
	24	2-Methylpentane	0-00-0	Not Found		ppbv
	25	Methyl Acetate	0-00-0	Not Found		ppbv
	27	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	28	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	29	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	30	Acrylonitrile	0-00-0	Not Found		ppbv
	31	Hexane	0-00-0	Not Found		ppbv
	32	Isopropyl ether	0-00-0	Not Found		ppbv
	33	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	34	Vinyl Acetate	0-00-0	Not Found		ppbv
	35	Chloroprene	0-00-0	Not Found		ppbv
	36	Ethyl-tert-butyl ether	0-00-0	Not Found		ppbv
	37	2,2-Dichloropropane	0-00-0	Not Found		ppbv
	38	cis-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	39	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Not Found		ppbv
	43	Chloroform	0-00-0	Not Found		ppbv
	44	Cyclohexane	0-00-0	Not Found		ppbv
	45	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	46	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	47	Carbon Tetrachloride	0-00-0	Not Found		ppbv
	48	1,1-Dichloropropene	0-00-0	Not Found		ppbv
	49	2,2,4-Trimethylpentane	0-00-0	Not Found		ppbv
	52	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F020107; 6L#13844 w/10.2ml+T:1
Date: 2/1/2008 12:02:30

Peak #	#	Quantification	CAS	Type	Concentration	Units
	53	1,2-Dichloroethane	0-00-0	Not Found		ppbv
	54	Heptane	0-00-0	Not Found		ppbv
	55	Thiophene	0-00-0	Not Found		ppbv
	58	Methylcyclohexane	0-00-0	Not Found		ppbv
	60	1,4-Dioxane	0-00-0	Not Found		ppbv
	62	Bromodichloromethane	0-00-0	Not Found		ppbv
	63	cis-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	64	4-Methyl-2-pentanone	0-00-0	Not Found		ppbv
	67	trans-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	69	Tetrachloroethene	0-00-0	Not Found		ppbv
	70	2-Hexanone	0-00-0	Not Found		ppbv
	71	Dibromochloromethane	0-00-0	Not Found		ppbv
	72	1,2-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	74	Chlorobenzene	0-00-0	Not Found		ppbv
	75	Ethyl Benzene	0-00-0	Not Found		ppbv
	76	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	77	m,p-Xylene	0-00-0	Not Found		ppbv
	78	o-Xylene	0-00-0	Not Found		ppbv
	79	Styrene	0-00-0	Not Found		ppbv
	80	Bromoform	0-00-0	Not Found		ppbv
	81	Cumene	0-00-0	Not Found		ppbv
	83	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	84	Propylbenzene	0-00-0	Not Found		ppbv
	85	1,2,3-Trichloropropane	0-00-0	Not Found		ppbv
	86	4-Ethyltoluene	0-00-0	Not Found		ppbv
	87	1,3,5-Trimethylbenzene	0-00-0	Not Found		ppbv
	88	tert-Butylbenzene	0-00-0	Not Found		ppbv
	89	1,2,4-Trimethylbenzene	0-00-0	Not Found		ppbv
	90	Pentachloroethane	0-00-0	Not Found		ppbv
	92	p-Cymene	0-00-0	Not Found		ppbv
	93	1,3-Dichlorobenzene	0-00-0	Not Found		ppbv
	94	1,2,3-Trimethylbenzene	95-63-6	Not Found		ppbv
	95	1,4-Dichlorobenzene	0-00-0	Not Found		ppbv
	96	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	97	Indan	0-00-0	Not Found		ppbv
	98	Butylbenzene	0-00-0	Not Found		ppbv
	99	1,2-Dichlorobenzene	0-00-0	Not Found		ppbv
	100	Indene	0-00-0	Not Found		ppbv
	101	Hexachloroethane	0-00-0	Not Found		ppbv
	102	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F020107; 6L#13844 w/10.2ml+T:1
Date: 2/1/2008 12:02:30

Peak #	#	Quantification	CAS	Type	Concentration	Units
	103	1,2,4-Trichlorobenzene	0-00-0	Not Found		ppbv
	104	Hexachlorobutadiene	0-00-0	Not Found		ppbv
	106	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
3	13	Isopentane	0-00-0	Quantified	0.01	ppbv
4	15	Freon 11	55256-22-9	Quantified	0.00	ppbv
6	19	Acrolein	0-00-0	Quantified	0.00	ppbv
7	18	Freon 113	115781-87-8	Quantified	0.00	ppbv
11	20	Carbon Disulfide	75-15-0	Quantified	0.02	ppbv
14	21	Acetone	108-24-7	Quantified	0.05	ppbv
16	26	Methylene Chloride	75-09-2	Quantified	0.04	ppbv
24	40	Ethyl Acetate	79-06-1	Quantified	0.00	ppbv
26	41	Bromochloromethane-IS	74-97-5	Quantified	5.00	ppbv
29	42	Tetrahydrofuran	4923-79-9	Quantified	0.06	ppbv
30	50	Benzene	71-43-2	Quantified	0.01	ppbv
31	51	1,2-Dichloroethane-d4	930-29-0	Quantified	5.03	ppbv
33	56	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	ppbv
37	57	Trichloroethene	55475-49-5	Quantified	0.00	ppbv
39	59	1,2-Dichloropropane	56053-18-0	Quantified	0.00	ppbv
40	61	Dibromomethane	1121-49-9	Quantified	0.00	ppbv
42	65	Toluene-D8	2037-26-5	Quantified	5.06	ppbv
43	66	Toluene	103438-94-4	Quantified	0.02	ppbv
47	68	1,1,2-Trichloroethane	0-00-0	Quantified	0.00	ppbv
52	73	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	ppbv
54	82	Bromofluorobenzene	1073-06-9	Quantified	4.99	ppbv
56	91	sec-Butylbenzene	182926-07-4	Quantified	0.00	ppbv
57	105	Naphthalene	0-00-0	Quantified	0.00	ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F020106; 6L#34228 w/10.2ml+T:1
Date: 2/1/2008 11:39:07

Peak #	#	Quantification	CAS	Type	Concentration	Units
	1	Propylene	0-00-0	Not Found		ppbv
	2	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		ppbv
	3	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	4	Freon 12	0-00-0	Not Found		ppbv
	5	Isobutane	0-00-0	Not Found		ppbv
	6	Freon 114	0-00-0	Not Found		ppbv
	8	Butane	0-00-0	Not Found		ppbv
	9	Vinyl Chloride	0-00-0	Not Found		ppbv
	10	1,3-Butadiene	0-00-0	Not Found		ppbv
	11	Bromomethane	0-00-0	Not Found		ppbv
	12	Chloroethane	0-00-0	Not Found		ppbv
	13	Isopentane	0-00-0	Not Found		ppbv
	14	Vinyl bromide	0-00-0	Not Found		ppbv
	17	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	18	Freon 113	0-00-0	Not Found		ppbv
	19	Acrolein	0-00-0	Not Found		ppbv
	22	2-Propanol	0-00-0	Not Found		ppbv
	23	3-Chloropropene	0-00-0	Not Found		ppbv
	24	2-Methylpentane	0-00-0	Not Found		ppbv
	25	Methyl Acetate	0-00-0	Not Found		ppbv
	27	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	28	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	29	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	30	Acrylonitrile	0-00-0	Not Found		ppbv
	31	Hexane	0-00-0	Not Found		ppbv
	32	Isopropyl ether	0-00-0	Not Found		ppbv
	33	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	34	Vinyl Acetate	0-00-0	Not Found		ppbv
	35	Chloroprene	0-00-0	Not Found		ppbv
	36	Ethyl-tert-butyl ether	0-00-0	Not Found		ppbv
	37	2,2-Dichloropropane	0-00-0	Not Found		ppbv
	43	Chloroform	0-00-0	Not Found		ppbv
	44	Cyclohexane	0-00-0	Not Found		ppbv
	45	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	46	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	47	Carbon Tetrachloride	0-00-0	Not Found		ppbv
	48	1,1-Dichloropropene	0-00-0	Not Found		ppbv
	49	2,2,4-Trimethylpentane	0-00-0	Not Found		ppbv
	52	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv
	53	1,2-Dichloroethane	0-00-0	Not Found		ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F020106; 6L#34228 w/10.2ml+T:1
Date: 2/1/2008 11:39:07

Peak #	#	Quantification	CAS	Type	Concentration	Units
	54	Heptane	0-00-0	Not Found		ppbv
	55	Thiophene	0-00-0	Not Found		ppbv
	57	Trichloroethene	0-00-0	Not Found		ppbv
	59	1,2-Dichloropropane	0-00-0	Not Found		ppbv
	60	1,4-Dioxane	0-00-0	Not Found		ppbv
	62	Bromodichloromethane	0-00-0	Not Found		ppbv
	63	cis-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	64	4-Methyl-2-pentanone	0-00-0	Not Found		ppbv
	67	trans-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	68	1,1,2-Trichloroethane	0-00-0	Not Found		ppbv
	69	Tetrachloroethene	0-00-0	Not Found		ppbv
	70	2-Hexanone	0-00-0	Not Found		ppbv
	71	Dibromochloromethane	0-00-0	Not Found		ppbv
	72	1,2-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	74	Chlorobenzene	0-00-0	Not Found		ppbv
	75	Ethyl Benzene	0-00-0	Not Found		ppbv
	76	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	77	m,p-Xylene	0-00-0	Not Found		ppbv
	78	o-Xylene	0-00-0	Not Found		ppbv
	79	Styrene	0-00-0	Not Found		ppbv
	80	Bromoform	0-00-0	Not Found		ppbv
	81	Cumene	0-00-0	Not Found		ppbv
	83	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	84	Propylbenzene	0-00-0	Not Found		ppbv
	85	1,2,3-Trichloropropane	0-00-0	Not Found		ppbv
	86	4-Ethyltoluene	0-00-0	Not Found		ppbv
	87	1,3,5-Trimethylbenzene	0-00-0	Not Found		ppbv
	88	tert-Butylbenzene	0-00-0	Not Found		ppbv
	90	Pentachloroethane	0-00-0	Not Found		ppbv
	91	sec-Butylbenzene	0-00-0	Not Found		ppbv
	92	p-Cymene	0-00-0	Not Found		ppbv
	93	1,3-Dichlorobenzene	0-00-0	Not Found		ppbv
	95	1,4-Dichlorobenzene	0-00-0	Not Found		ppbv
	96	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	97	Indan	0-00-0	Not Found		ppbv
	98	Butylbenzene	0-00-0	Not Found		ppbv
	99	1,2-Dichlorobenzene	0-00-0	Not Found		ppbv
	100	Indene	0-00-0	Not Found		ppbv
	101	Hexachloroethane	0-00-0	Not Found		ppbv
	102	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F020106; 6L#34228 w/10.2ml+T:1
Date: 2/1/2008 11:39:07

Peak #	#	Quantification	CAS	Type	Concentration	Units
	103	1,2,4-Trichlorobenzene	0-00-0	Not Found		ppbv
	104	Hexachlorobutadiene	0-00-0	Not Found		ppbv
	105	Naphthalene	0-00-0	Not Found		ppbv
	106	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
1	7	Chloromethane	490-53-9	Quantified	0.02	ppbv
6	15	Freon 11	58829-74-6	Quantified	0.00	ppbv
7	16	Ethanol	0-00-0	Quantified	0.07	ppbv
10	20	Carbon Disulfide	75-15-0	Quantified	0.01	ppbv
12	21	Acetone	123-46-6	Quantified	0.06	ppbv
14	26	Methylene Chloride	75-09-2	Quantified	0.03	ppbv
18	38	cis-1,2-Dichloroethene	18100-65-7	Quantified	0.00	ppbv
18	39	2-Butanone (Methyl Ethyl Ketone)	18100-65-7	Quantified	0.03	ppbv
19	40	Ethyl Acetate	288-37-9	Quantified	0.00	ppbv
22	41	Bromochloromethane-IS	74-97-5	Quantified	5.00	ppbv
23	42	Tetrahydrofuran	106-88-7	Quantified	0.07	ppbv
26	50	Benzene	71-43-2	Quantified	0.02	ppbv
27	51	1,2-Dichloroethane-d4	930-29-0	Quantified	5.15	ppbv
29	56	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	ppbv
32	58	Methylcyclohexane	0-00-0	Quantified	0.01	ppbv
34	61	Dibromomethane	571-31-3	Quantified	0.00	ppbv
36	65	Toluene-D8	2037-26-5	Quantified	5.07	ppbv
37	66	Toluene	0-00-0	Quantified	0.00	ppbv
42	73	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	ppbv
43	82	Bromofluorobenzene	460-00-4	Quantified	4.85	ppbv
51	89	1,2,4-Trimethylbenzene	0-00-0	Quantified	0.01	ppbv
52	94	1,2,3-Trimethylbenzene	0-00-0	Quantified	0.00	ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F013121; 6L#30837 w/10.2ml:1
Date: 1/31/2008 18:03:02

Peak #	#	Quantification	CAS	Type	Concentration	Units
	1	Propylene	0-00-0	Not Found		ppbv
	3	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	6	Freon 114	0-00-0	Not Found		ppbv
	9	Vinyl Chloride	0-00-0	Not Found		ppbv
	10	1,3-Butadiene	0-00-0	Not Found		ppbv
	11	Bromomethane	0-00-0	Not Found		ppbv
	12	Chloroethane	0-00-0	Not Found		ppbv
	14	Vinyl bromide	0-00-0	Not Found		ppbv
	17	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	19	Acrolein	0-00-0	Not Found		ppbv
	23	3-Chloropropene	0-00-0	Not Found		ppbv
	24	2-Methylpentane	0-00-0	Not Found		ppbv
	25	Methyl Acetate	0-00-0	Not Found		ppbv
	27	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	28	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	29	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	32	Isopropyl ether	0-00-0	Not Found		ppbv
	33	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	34	Vinyl Acetate	0-00-0	Not Found		ppbv
	35	Chloroprene	0-00-0	Not Found		ppbv
	36	Ethyl-tert-butyl ether	0-00-0	Not Found		ppbv
	37	2,2-Dichloropropane	0-00-0	Not Found		ppbv
	38	cis-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	39	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Not Found		ppbv
	44	Cyclohexane	0-00-0	Not Found		ppbv
	45	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	46	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	48	1,1-Dichloropropene	0-00-0	Not Found		ppbv
	49	2,2,4-Trimethylpentane	0-00-0	Not Found		ppbv
	52	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv
	53	1,2-Dichloroethane	0-00-0	Not Found		ppbv
	54	Heptane	0-00-0	Not Found		ppbv
	55	Thiophene	0-00-0	Not Found		ppbv
	57	Trichloroethene	0-00-0	Not Found		ppbv
	58	Methylcyclohexane	0-00-0	Not Found		ppbv
	59	1,2-Dichloropropane	0-00-0	Not Found		ppbv
	60	1,4-Dioxane	0-00-0	Not Found		ppbv
	62	Bromodichloromethane	0-00-0	Not Found		ppbv
	63	cis-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	64	4-Methyl-2-pentanone	0-00-0	Not Found		ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F013121; 6L#30837 w/10.2ml:1
Date: 1/31/2008 18:03:02

Peak #	#	Quantification	CAS	Type	Concentration	Units
	67	trans-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	68	1,1,2-Trichloroethane	0-00-0	Not Found		ppbv
	69	Tetrachloroethene	0-00-0	Not Found		ppbv
	70	2-Hexanone	0-00-0	Not Found		ppbv
	71	Dibromochloromethane	0-00-0	Not Found		ppbv
	72	1,2-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	74	Chlorobenzene	0-00-0	Not Found		ppbv
	75	Ethyl Benzene	0-00-0	Not Found		ppbv
	76	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	78	o-Xylene	0-00-0	Not Found		ppbv
	79	Styrene	0-00-0	Not Found		ppbv
	80	Bromoform	0-00-0	Not Found		ppbv
	81	Cumene	0-00-0	Not Found		ppbv
	83	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	84	Propylbenzene	0-00-0	Not Found		ppbv
	85	1,2,3-Trichloropropane	0-00-0	Not Found		ppbv
	88	tert-Butylbenzene	0-00-0	Not Found		ppbv
	89	1,2,4-Trimethylbenzene	0-00-0	Not Found		ppbv
	90	Pentachloroethane	0-00-0	Not Found		ppbv
	91	sec-Butylbenzene	0-00-0	Not Found		ppbv
	92	p-Cymene	0-00-0	Not Found		ppbv
	93	1,3-Dichlorobenzene	0-00-0	Not Found		ppbv
	94	1,2,3-Trimethylbenzene	95-63-6	Not Found		ppbv
	95	1,4-Dichlorobenzene	0-00-0	Not Found		ppbv
	96	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	97	Indan	0-00-0	Not Found		ppbv
	98	Butylbenzene	0-00-0	Not Found		ppbv
	99	1,2-Dichlorobenzene	0-00-0	Not Found		ppbv
	100	Indene	0-00-0	Not Found		ppbv
	101	Hexachloroethane	0-00-0	Not Found		ppbv
	102	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		ppbv
	103	1,2,4-Trichlorobenzene	0-00-0	Not Found		ppbv
	104	Hexachlorobutadiene	0-00-0	Not Found		ppbv
	105	Naphthalene	0-00-0	Not Found		ppbv
	106	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
1	2	1,1,1,2-Tetrafluoroethane	182926-07-4	Quantified	0.00	ppbv
2	4	Freon 12	56630-30-9	Quantified	0.01	ppbv
4	5	Isobutane	19634-37-8	Quantified	0.00	ppbv
5	7	Chloromethane	349573-11-1	Quantified	0.05	ppbv
7	8	Butane	0-00-0	Quantified	0.04	ppbv

www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: F013121; 6L#30837 w/10.2ml:1
Date: 1/31/2008 18:03:02

Peak #	#	Quantification	CAS	Type	Concentration	Units
18	13	Isopentane	66075-09-0	Quantified	0.02	ppbv
19	15	Freon 11	75-69-4	Quantified	0.02	ppbv
25	16	Ethanol	865-40-7	Quantified	0.72	ppbv
26	18	Freon 113	54699-43-3	Quantified	0.00	ppbv
30	20	Carbon Disulfide	75-15-0	Quantified	0.04	ppbv
31	21	Acetone	67-64-1	Quantified	0.65	ppbv
32	22	2-Propanol	625-31-0	Quantified	0.36	ppbv
37	26	Methylene Chloride	75-09-2	Quantified	0.29	ppbv
40	30	Acrylonitrile	54965-39-8	Quantified	0.00	ppbv
41	31	Hexane	55255-50-0	Quantified	0.04	ppbv
45	40	Ethyl Acetate	0-00-0	Quantified	0.00	ppbv
50	41	Bromochloromethane-IS	74-97-5	Quantified	5.00	ppbv
51	42	Tetrahydrofuran	0-00-0	Quantified	0.07	ppbv
51	43	Chloroform	0-00-0	Quantified	0.00	ppbv
52	47	Carbon Tetrachloride	189133-05-9	Quantified	0.01	ppbv
53	50	Benzene	71-43-2	Quantified	0.01	ppbv
54	51	1,2-Dichloroethane-d4	930-29-0	Quantified	5.11	ppbv
61	56	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	ppbv
63	61	Dibromomethane	74-95-3	Quantified	0.00	ppbv
66	65	Toluene-D8	2037-26-5	Quantified	5.08	ppbv
67	66	Toluene	2422-86-8	Quantified	0.02	ppbv
72	73	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	ppbv
73	77	m,p-Xylene	0-00-0	Quantified	0.01	ppbv
75	82	Bromofluorobenzene	1073-06-9	Quantified	5.02	ppbv
76	86	4-Ethyltoluene	0-00-0	Quantified	0.00	ppbv
76	87	1,3,5-Trimethylbenzene	0-00-0	Quantified	0.01	ppbv

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0802295

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)
N/A	N/A	☐	☐	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)
	N/A	☐		TICs resemble reference spectra
	N/A	☐		TICs between duplicate samples are consistent
N/A	N/A	☐	N/A	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)
	N/A	☐	N/A	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: Ø out CCV, 1 out LCS
01A dup
04A - TB

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
OB 2/26/08	R: NK 2/28/08	2/29/08	
	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