
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 #: 0803479

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Comments:

Completed by:

Kara McKiernan — Kara McKiernan / Document Control — 4/7/08

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0803479

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	03/21/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	04/03/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 3	Modified TO-15	0.4 psi	5 psi
01AA	DW AMS 3 Lab Duplicate	Modified TO-15	0.4 psi	5 psi
02A	UW AMS 5	Modified TO-15	6.5 "Hg	5 psi
03A	Trip Blank	Modified TO-15	4.6psi	4.6 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 04/03/08

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

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0803479

Two 6 Liter Summa Canister (100% Certified) and one 6 Liter Summa Canister samples were received on March 21, 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

The number of samples received did not match the information on the Chain of Custody (COC). Sample Trip Blank was added to the analytical request.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
DW AMS 3	0803479-01A	3/20/2008	3/21/2008	NA	12	4/ 1/2008	NA	Good
DW AMS 3 Lab Duplicate	0803479-01AA	3/20/2008	3/21/2008	NA	12	4/ 1/2008	NA	Good
UW AMS 5	0803479-02A	3/20/2008	3/21/2008	NA	12	4/ 1/2008	NA	Good
Trip Blank	0803479-03A	NA	3/21/2008	NA	NA	4/ 1/2008	NA	Good
Lab Blank	0803479-04A	NA	NA	NA	NA	3/31/2006	NA	Good
CCV	0803479-05A	NA	NA	NA	NA	3/31/2008	NA	Good
LCS	0803479-06A	NA	NA	NA	NA	3/31/2008	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: DW AMS 3

Lab ID#: 0803479-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.65	1.5	2.4	5.6
Acetone	2.6	5.6	6.2	13
2-Propanol	2.6	21	6.4	51
Ethanol	2.6	72	4.9	140

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0803479-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033127**	**Date of Collection: 3/20/08**	
Dil. Factor:	**1.30**	**Date of Analysis: 4/1/08 12:37 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.65	Not Detected	3.2	Not Detected
Freon 114	0.65	Not Detected	4.5	Not Detected
Vinyl Chloride	0.65	Not Detected	1.7	Not Detected
Bromomethane	0.65	Not Detected	2.5	Not Detected
Chloroethane	0.65	Not Detected	1.7	Not Detected
Freon 11	0.65	Not Detected	3.6	Not Detected
1,1-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Freon 113	0.65	Not Detected	5.0	Not Detected
Methylene Chloride	0.65	Not Detected	2.2	Not Detected
1,1-Dichloroethane	0.65	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Chloroform	0.65	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Carbon Tetrachloride	0.65	Not Detected	4.1	Not Detected
Benzene	0.65	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.65	Not Detected	2.6	Not Detected
Trichloroethene	0.65	Not Detected	3.5	Not Detected
1,2-Dichloropropane	0.65	Not Detected	3.0	Not Detected
cis-1,3-Dichloropropene	0.65	Not Detected	3.0	Not Detected
Toluene	0.65	1.5	2.4	5.6
trans-1,3-Dichloropropene	0.65	Not Detected	3.0	Not Detected
1,1,2-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Tetrachloroethene	0.65	Not Detected	4.4	Not Detected
1,2-Dibromoethane (EDB)	0.65	Not Detected	5.0	Not Detected
Chlorobenzene	0.65	Not Detected	3.0	Not Detected
Ethyl Benzene	0.65	Not Detected	2.8	Not Detected
m,p-Xylene	0.65	Not Detected	2.8	Not Detected
o-Xylene	0.65	Not Detected	2.8	Not Detected
Styrene	0.65	Not Detected	2.8	Not Detected
1,1,2,2-Tetrachloroethane	0.65	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,3-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,4-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
alpha-Chlorotoluene	0.65	Not Detected	3.4	Not Detected
1,2-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,3-Butadiene	0.65	Not Detected	1.4	Not Detected
Hexane	0.65	Not Detected	2.3	Not Detected
Cyclohexane	0.65	Not Detected	2.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0803479-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033127**	**Date of Collection: 3/20/08**	
Dil. Factor:	**1.30**	**Date of Analysis: 4/1/08 12:37 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.65	Not Detected	2.7	Not Detected
Bromodichloromethane	0.65	Not Detected	4.4	Not Detected
Dibromochloromethane	0.65	Not Detected	5.5	Not Detected
Cumene	0.65	Not Detected	3.2	Not Detected
Propylbenzene	0.65	Not Detected	3.2	Not Detected
Chloromethane	2.6	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	2.6	Not Detected	19	Not Detected
Hexachlorobutadiene	2.6	Not Detected	28	Not Detected
Acetone	2.6	5.6	6.2	13
Carbon Disulfide	0.65	Not Detected	2.0	Not Detected
2-Propanol	2.6	21	6.4	51
trans-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.65	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.65	Not Detected	1.9	Not Detected
1,4-Dioxane	2.6	Not Detected	9.4	Not Detected
4-Methyl-2-pentanone	0.65	Not Detected	2.7	Not Detected
2-Hexanone	2.6	Not Detected	11	Not Detected
Bromoform	0.65	Not Detected	6.7	Not Detected
4-Ethyltoluene	0.65	Not Detected	3.2	Not Detected
Ethanol	2.6	72	4.9	140
Methyl tert-butyl ether	0.65	Not Detected	2.3	Not Detected
3-Chloropropene	2.6	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	0.65	Not Detected	3.0	Not Detected
Naphthalene	2.6	Not Detected	14	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033127.d
Lab Smp Id: 0803479-01A
Inj Date : 01-APR-2008 00:37
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #23921
Misc Info : 0.4psi -> 5psi
Comment :
Method : /chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 02-Apr-2008 12:16 ctaylor Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.30000
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		
8.087	8.087 (1.000)	130	230388	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	178639			48.30- 108.30	77.54
8.087	8.087 (1.000)	49	515086			186.10- 246.10	223.57
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	783004	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	123481			0.00- 46.24	15.77
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	532200	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	302896			0.00- 30.00	56.91
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	360767	20.6066	20.606	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	171908			19.51- 79.51	47.65
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	651838	22.7030	22.703	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	71033			0.00- 41.02	10.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	441186			39.73- 99.73	67.68
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	313932	22.6732	22.673	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	476003			113.08- 173.08	151.63
16.575	16.575 (1.105)	176	308195			65.67- 125.67	98.17
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.508)	45	456246	55.7757	72.508	80.00- 120.00	100.00
4.133	4.105 (0.511)	43	76242			0.00- 30.00	16.71
4.133	4.105 (0.511)	46	184245			0.00- 30.00	40.38
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.590)	58	40089	4.32329	5.620	80.00- 120.00	100.00
4.769	4.741 (0.590)	43	150821			0.00- 30.00	376.21
36 2-Propanol					CAS #: 67-63-0		
4.962	4.935 (0.614)	45	630602	16.0154	20.820	80.00- 120.00	100.00
4.962	4.935 (0.614)	43	155457			0.00- 30.00	24.65
4.962	4.935 (0.614)	59	23121			0.00- 30.00	3.67
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	35090	1.13489	1.475	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	23511			28.52- 88.52	67.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033127.d
Lab Smp Id: 0803479-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 0.4psi -> 5psi

Calibration Date: 31-MAR-2008
Calibration Time: 08:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	323835	194301	453369	230388	-28.86
92 1,4-Difluorobenze	1073233	643940	1502526	783004	-27.04
125 Chlorobenzene-d5	666140	399684	932596	532200	-20.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Apr-2008 14:31

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-31mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803479-01A
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/5-31mar.b/t14q221a.m
Misc Info: 0.4psi -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.606	82.43	70-130
$ 107 Toluene-d8	25.000	22.703	90.81	70-130
$ 138 Bromofluorobenzene	25.000	22.673	90.69	70-130

Data File: /chem/msd5.i/5-31mar.b/5033127.d

Date : 01-APR-2008 00:37

Client ID:

Sample Info: 200mL #23921

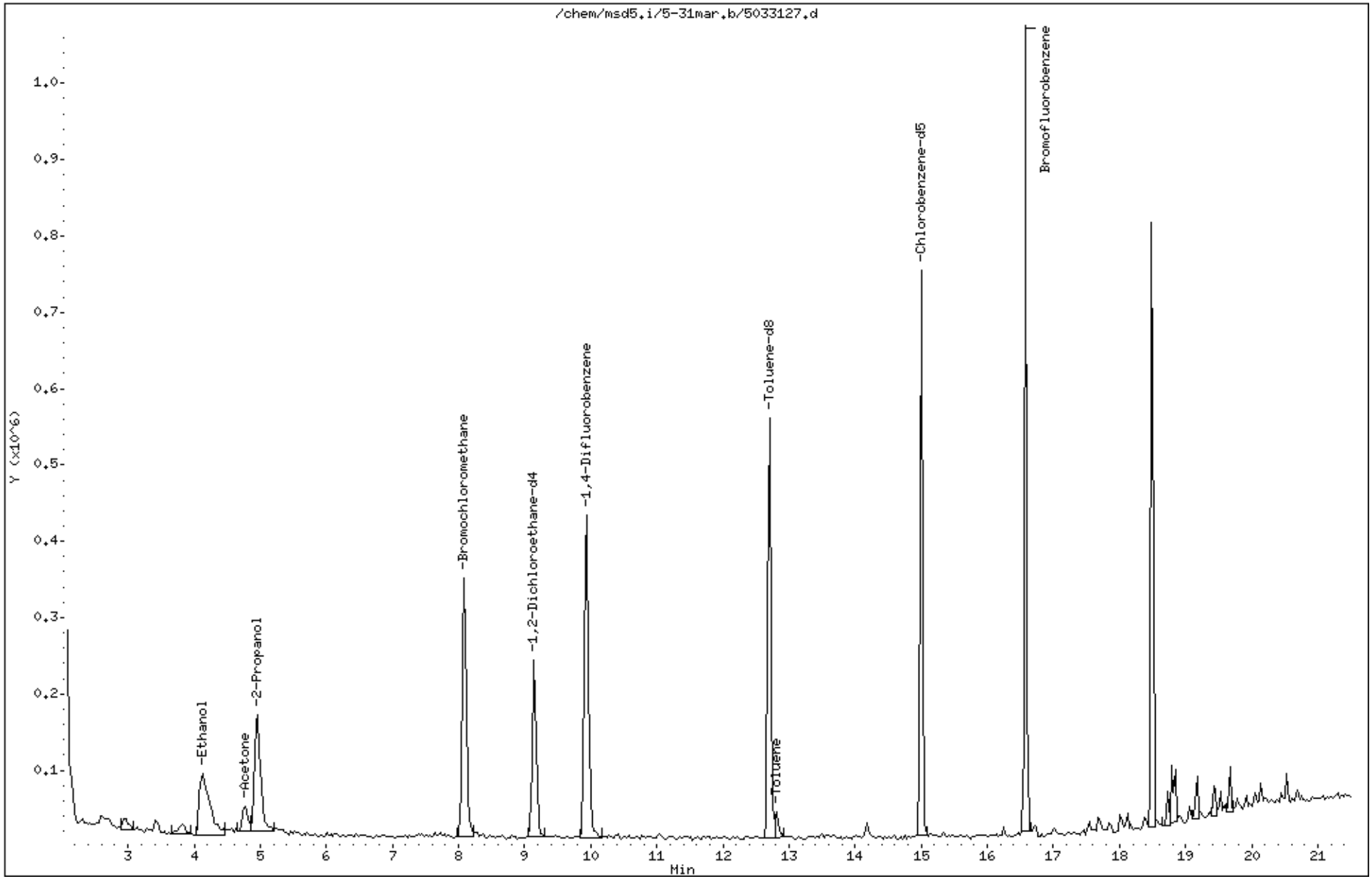
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0013



Data File: /chem/msd5.i/5-31mar.b/5033127.d

Date : 01-APR-2008 00:37

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

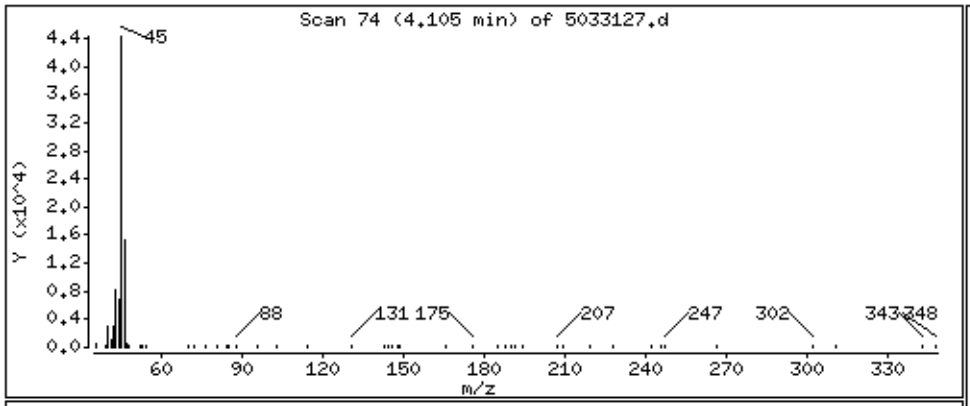
Operator: cb

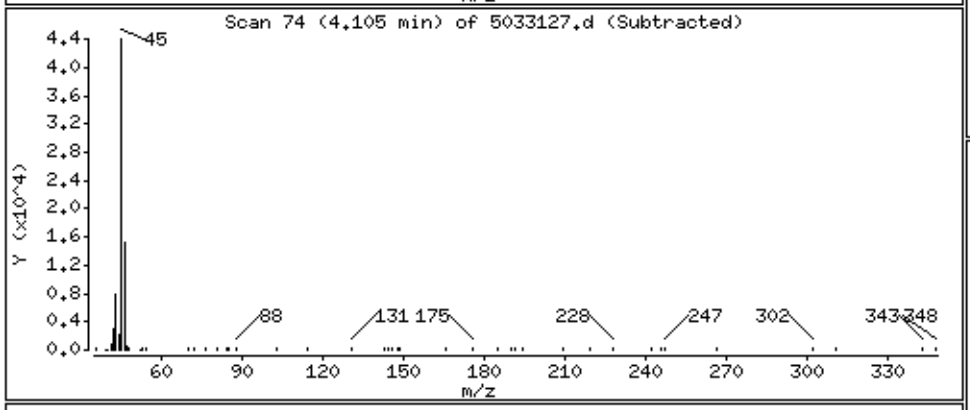
Column phase: RTx-624

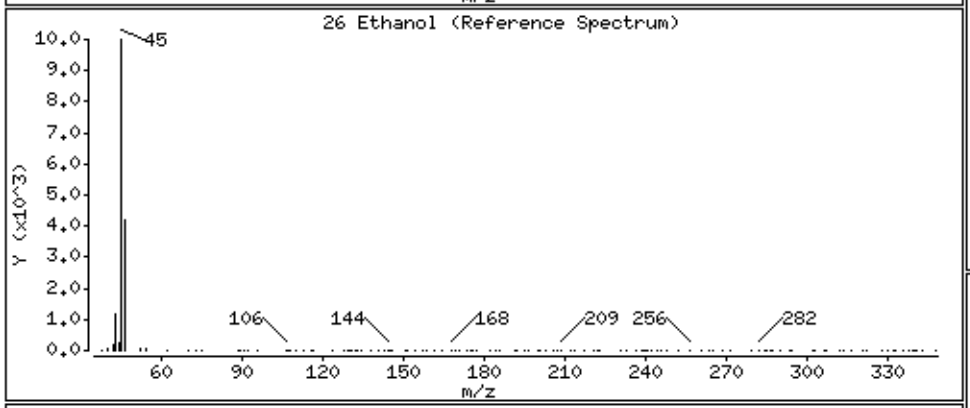
Column diameter: 0.53

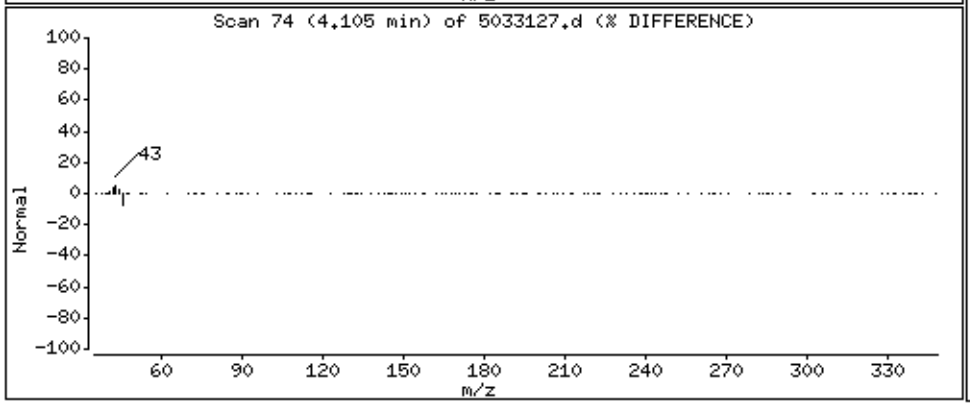
26 Ethanol

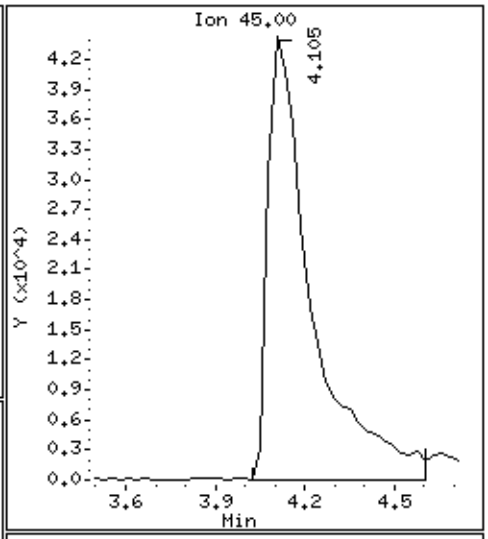
Concentration: 72.508 PPBV

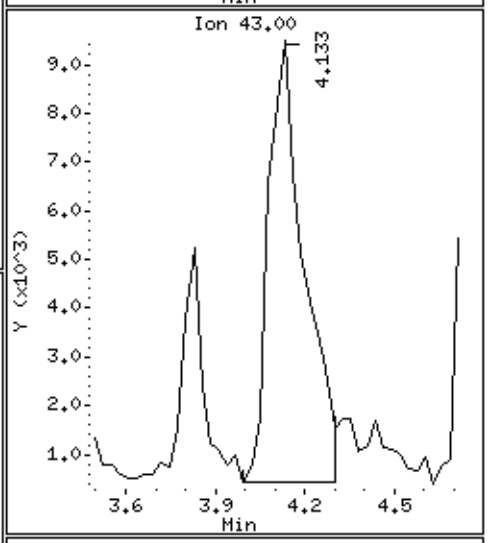


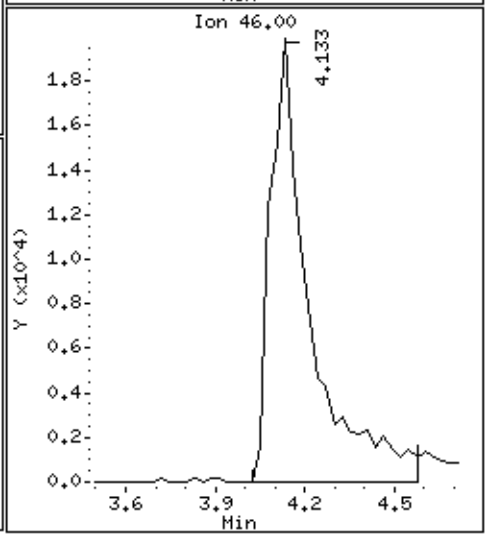












Data File: /chem/msd5.i/5-31mar.b/5033127.d

Date : 01-APR-2008 00:37

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

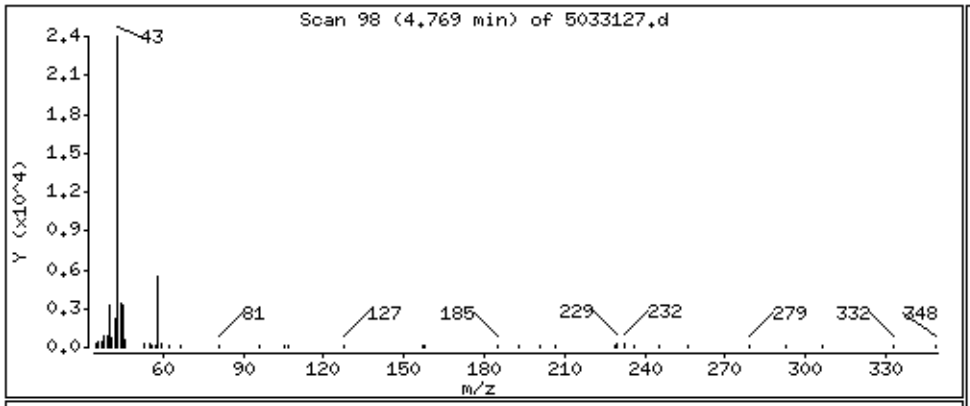
Operator: cb

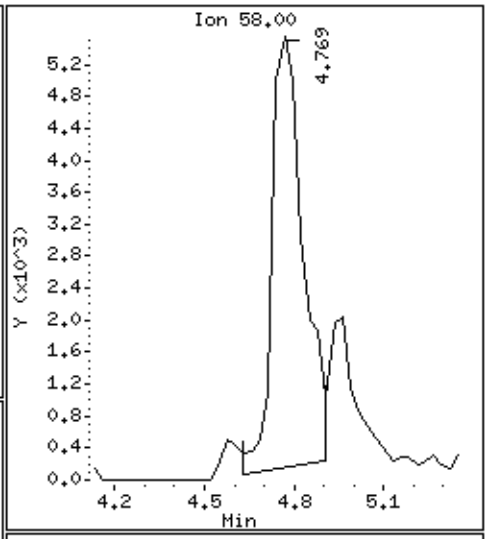
Column phase: RTx-624

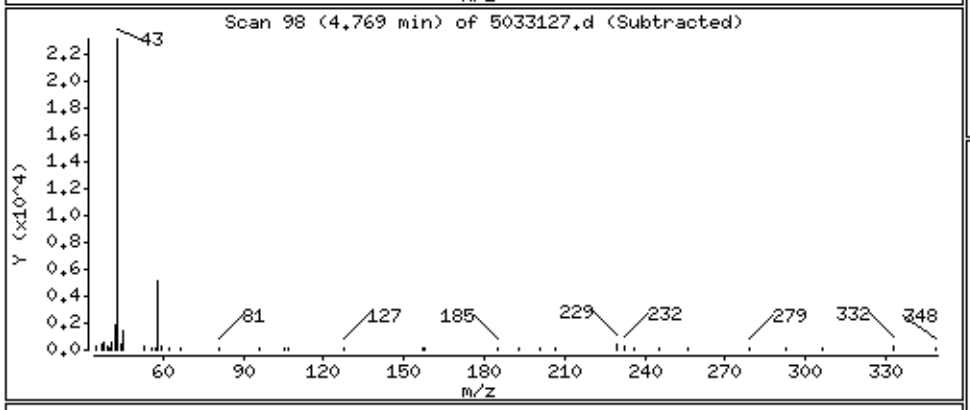
Column diameter: 0.53

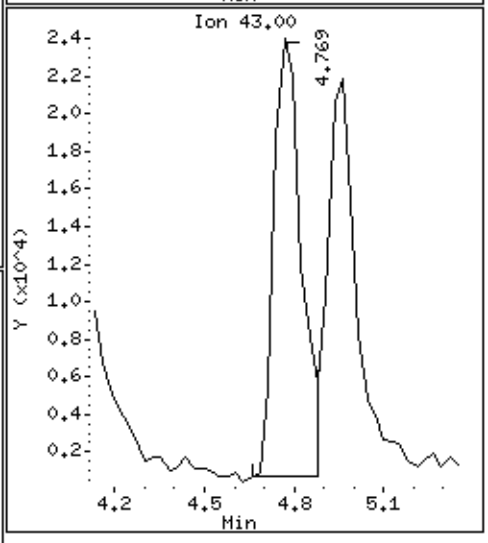
32 Acetone

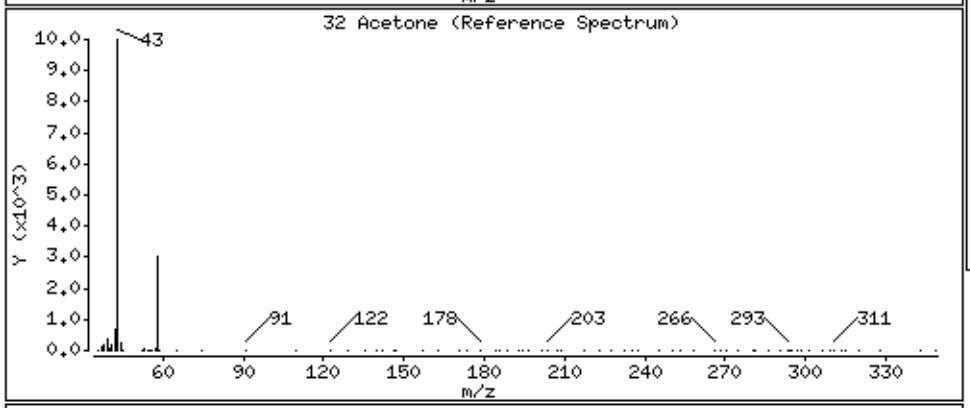
Concentration: 5.620 PPBV

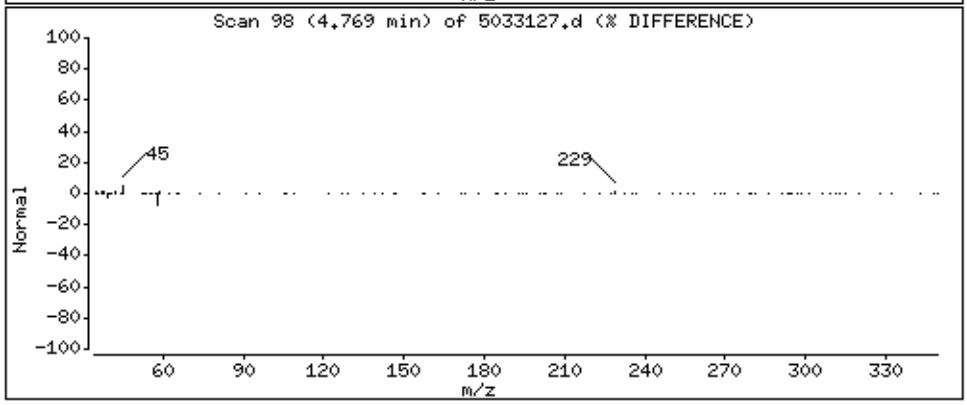












Data File: /chem/msd5.i/5-31mar.b/5033127.d

Date : 01-APR-2008 00:37

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

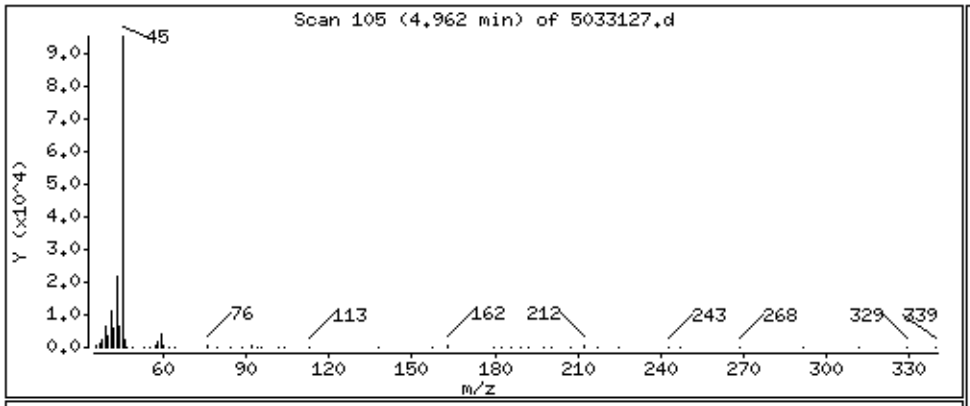
Operator: cb

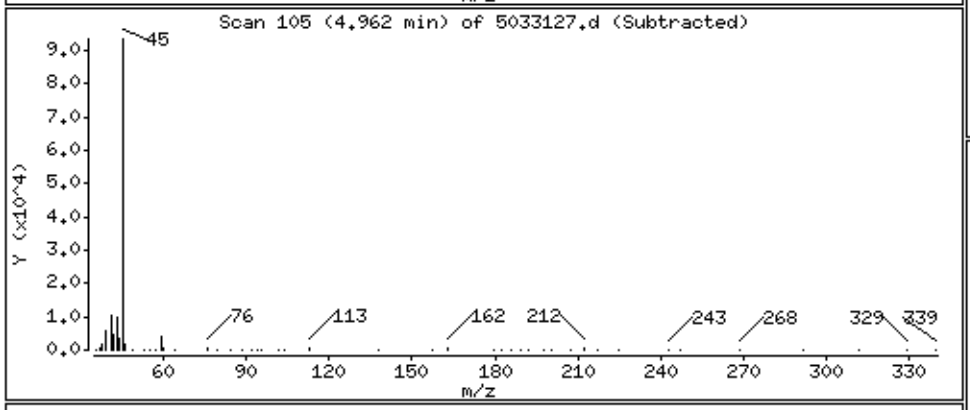
Column phase: RTx-624

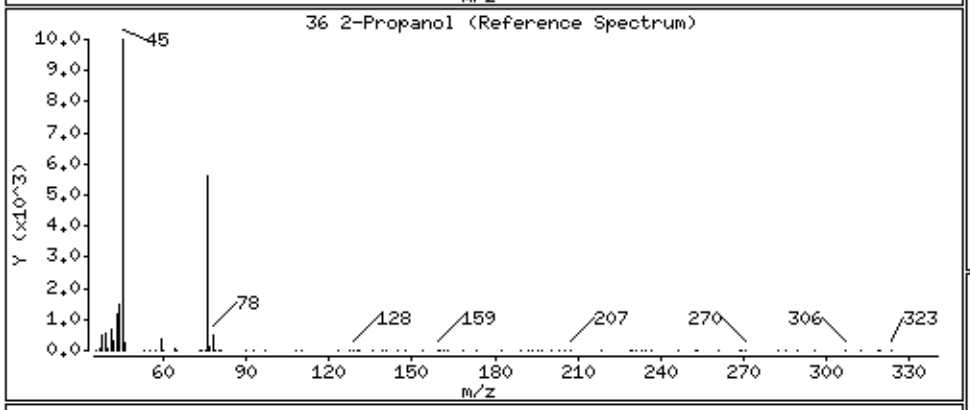
Column diameter: 0.53

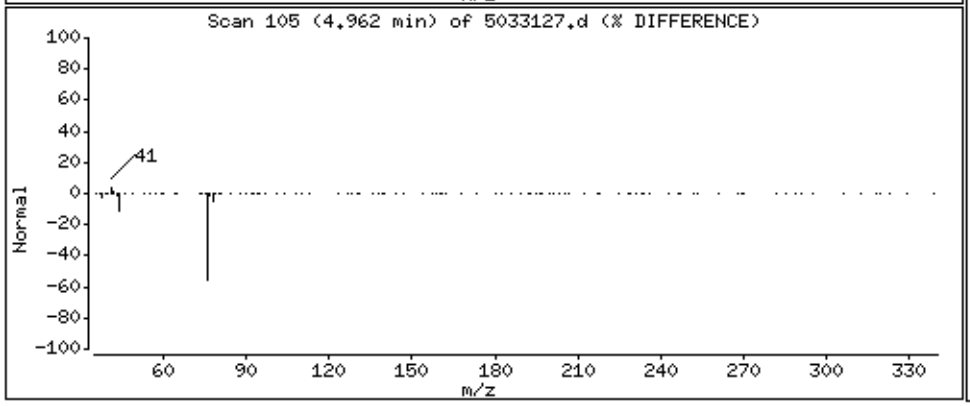
36 2-Propanol

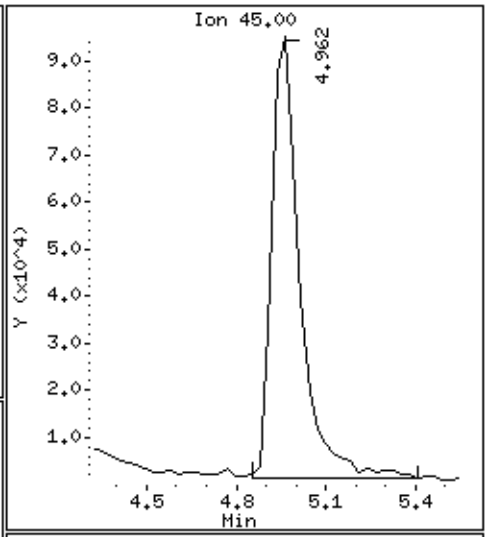
Concentration: 20.820 PPBV

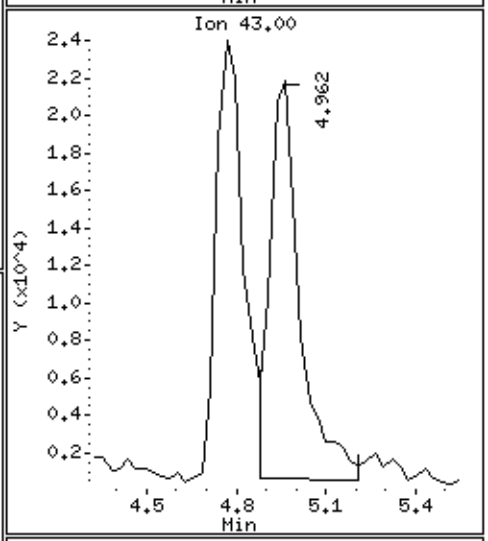


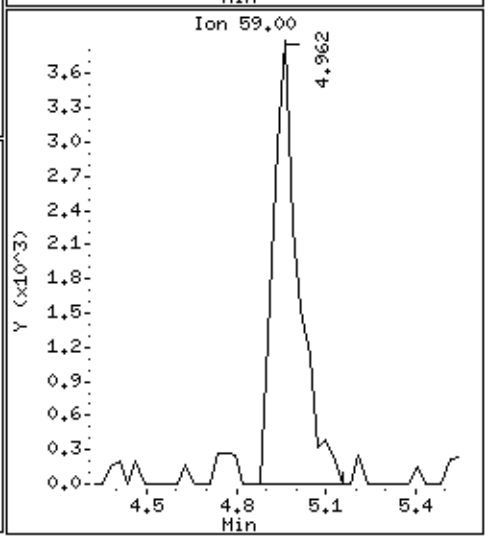












Data File: /chem/msd5.i/5-31mar.b/5033127.d

Date : 01-APR-2008 00:37

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

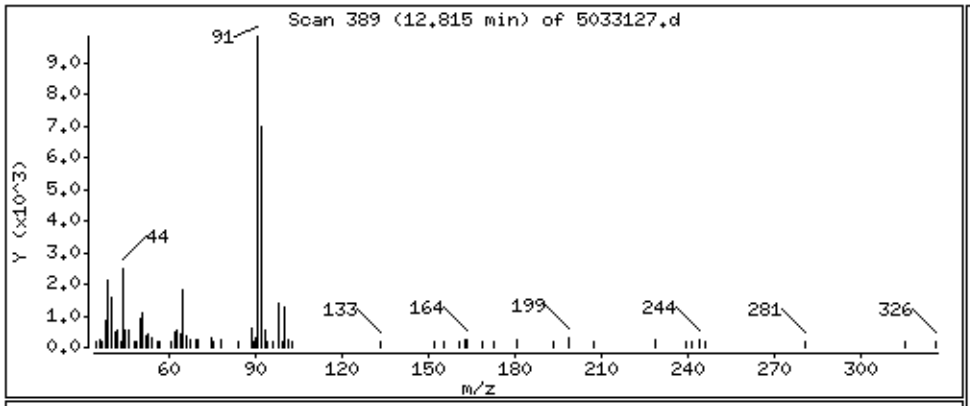
Operator: cb

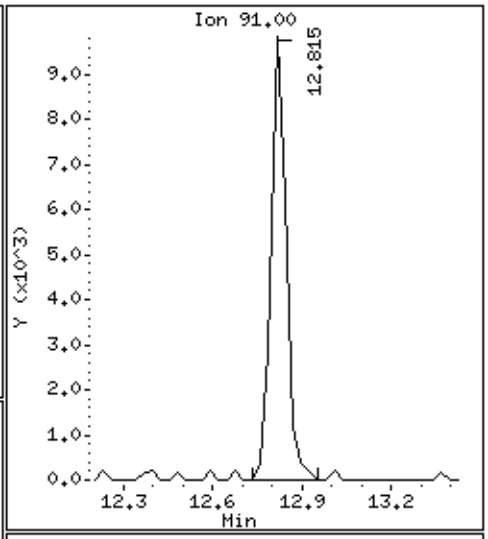
Column phase: RTx-624

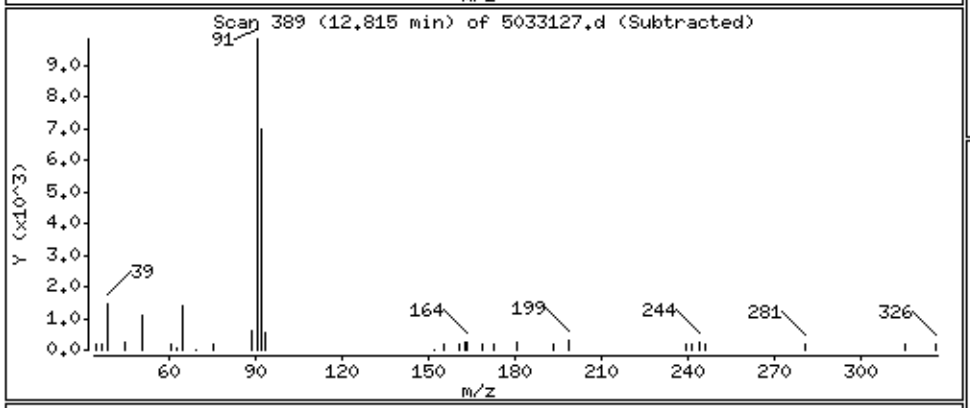
Column diameter: 0.53

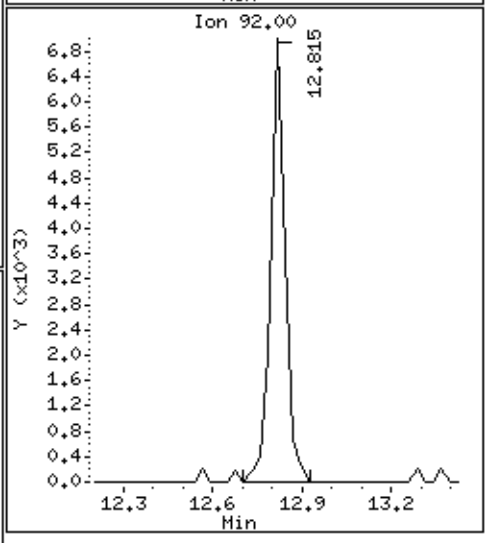
108 Toluene

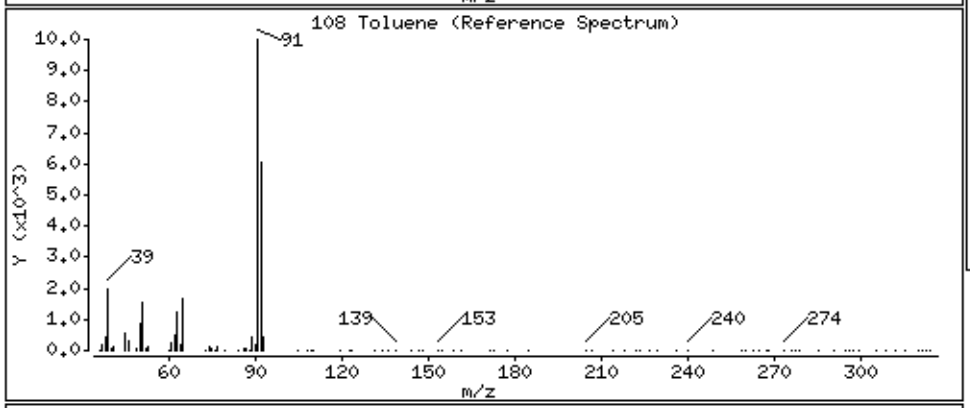
Concentration: 1.475 PPBV

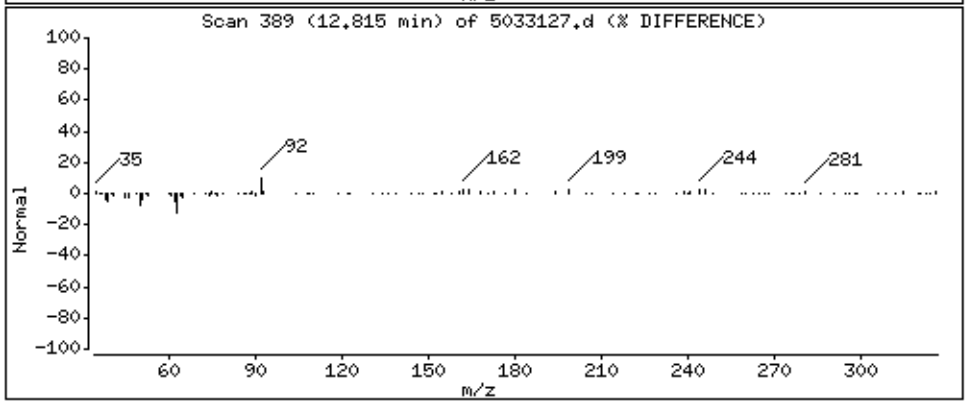












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3 Lab Duplicate

Lab ID#: 0803479-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.65	1.6	2.4	5.9
Acetone	2.6	5.9	6.2	14
2-Propanol	2.6	21	6.4	52
Ethanol	2.6	72	4.9	140

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3 Lab Duplicate

Lab ID#: 0803479-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033128**	**Date of Collection:**	**3/20/08**
Dil. Factor:	**1.30**	**Date of Analysis:**	**4/1/08 01:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.65	Not Detected	3.2	Not Detected
Freon 114	0.65	Not Detected	4.5	Not Detected
Vinyl Chloride	0.65	Not Detected	1.7	Not Detected
Bromomethane	0.65	Not Detected	2.5	Not Detected
Chloroethane	0.65	Not Detected	1.7	Not Detected
Freon 11	0.65	Not Detected	3.6	Not Detected
1,1-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Freon 113	0.65	Not Detected	5.0	Not Detected
Methylene Chloride	0.65	Not Detected	2.2	Not Detected
1,1-Dichloroethane	0.65	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Chloroform	0.65	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Carbon Tetrachloride	0.65	Not Detected	4.1	Not Detected
Benzene	0.65	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.65	Not Detected	2.6	Not Detected
Trichloroethene	0.65	Not Detected	3.5	Not Detected
1,2-Dichloropropane	0.65	Not Detected	3.0	Not Detected
cis-1,3-Dichloropropene	0.65	Not Detected	3.0	Not Detected
Toluene	0.65	1.6	2.4	5.9
trans-1,3-Dichloropropene	0.65	Not Detected	3.0	Not Detected
1,1,2-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Tetrachloroethene	0.65	Not Detected	4.4	Not Detected
1,2-Dibromoethane (EDB)	0.65	Not Detected	5.0	Not Detected
Chlorobenzene	0.65	Not Detected	3.0	Not Detected
Ethyl Benzene	0.65	Not Detected	2.8	Not Detected
m,p-Xylene	0.65	Not Detected	2.8	Not Detected
o-Xylene	0.65	Not Detected	2.8	Not Detected
Styrene	0.65	Not Detected	2.8	Not Detected
1,1,2,2-Tetrachloroethane	0.65	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,3-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,4-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
alpha-Chlorotoluene	0.65	Not Detected	3.4	Not Detected
1,2-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,3-Butadiene	0.65	Not Detected	1.4	Not Detected
Hexane	0.65	Not Detected	2.3	Not Detected
Cyclohexane	0.65	Not Detected	2.2	Not Detected

0019

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3 Lab Duplicate

Lab ID#: 0803479-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033128**	**Date of Collection:**	**3/20/08**
Dil. Factor:	**1.30**	**Date of Analysis:**	**4/1/08 01:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.65	Not Detected	2.7	Not Detected
Bromodichloromethane	0.65	Not Detected	4.4	Not Detected
Dibromochloromethane	0.65	Not Detected	5.5	Not Detected
Cumene	0.65	Not Detected	3.2	Not Detected
Propylbenzene	0.65	Not Detected	3.2	Not Detected
Chloromethane	2.6	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	2.6	Not Detected	19	Not Detected
Hexachlorobutadiene	2.6	Not Detected	28	Not Detected
Acetone	2.6	5.9	6.2	14
Carbon Disulfide	0.65	Not Detected	2.0	Not Detected
2-Propanol	2.6	21	6.4	52
trans-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.65	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.65	Not Detected	1.9	Not Detected
1,4-Dioxane	2.6	Not Detected	9.4	Not Detected
4-Methyl-2-pentanone	0.65	Not Detected	2.7	Not Detected
2-Hexanone	2.6	Not Detected	11	Not Detected
Bromoform	0.65	Not Detected	6.7	Not Detected
4-Ethyltoluene	0.65	Not Detected	3.2	Not Detected
Ethanol	2.6	72	4.9	140
Methyl tert-butyl ether	0.65	Not Detected	2.3	Not Detected
3-Chloropropene	2.6	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	0.65	Not Detected	3.0	Not Detected
Naphthalene	2.6	Not Detected	14	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033128.d
Lab Smp Id: 0803479-01AA
Inj Date : 01-APR-2008 01:10
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #23921
Misc Info : 0.4psi -> 5psi
Comment :
Method : /chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 02-Apr-2008 12:16 ctaylor Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.30000
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		
8.087	8.087 (1.000)	130	230788	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	175746			48.30- 108.30	76.15
8.087	8.087 (1.000)	49	517231			186.10- 246.10	224.11
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	779235	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	120389			0.00- 46.24	15.45
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	549888	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	313584			0.00- 30.00	57.03
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	366530	20.8995	20.899	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	171192			19.51- 79.51	46.71
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	655802	22.9515	22.951	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	69719			0.00- 41.02	10.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	448829			39.73- 99.73	68.44
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	318781	22.2828	22.283	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	452742			113.08- 173.08	142.02
16.575	16.575 (1.105)	176	310182			65.67- 125.67	97.30
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.508)	45	452485	55.2201	71.786	80.00- 120.00	100.00
4.105	4.105 (0.508)	43	85310			0.00- 30.00	18.85
4.133	4.105 (0.511)	46	175841			0.00- 30.00	38.86
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.590)	58	42090	4.53122	5.890	80.00- 120.00	100.00
4.769	4.741 (0.590)	43	143440			0.00- 30.00	340.79
36 2-Propanol					CAS #: 67-63-0		
4.962	4.935 (0.614)	45	643263	16.3086	21.201	80.00- 120.00	100.00
4.962	4.935 (0.614)	43	159211			0.00- 30.00	24.75
4.962	4.935 (0.614)	59	19922			0.00- 30.00	3.10
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	37163	1.20775	1.570	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	21676			28.52- 88.52	58.33

Report Date: 03-Apr-2008 14:32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033128.d
Lab Smp Id: 0803479-01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 0.4psi -> 5psi

Calibration Date: 31-MAR-2008
Calibration Time: 08:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	323835	194301	453369	230788	-28.73
92 1,4-Difluorobenze	1073233	643940	1502526	779235	-27.39
125 Chlorobenzene-d5	666140	399684	932596	549888	-17.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Apr-2008 14:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-31mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803479-01AA
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/5-31mar.b/t14q221a.m
Misc Info: 0.4psi -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.899	83.60	70-130
$ 107 Toluene-d8	25.000	22.951	91.81	70-130
$ 138 Bromofluorobenzene	25.000	22.283	89.13	70-130

Data File: /chem/msd5.i/5-31mar.b/5033128.d

Date : 01-APR-2008 01:10

Client ID:

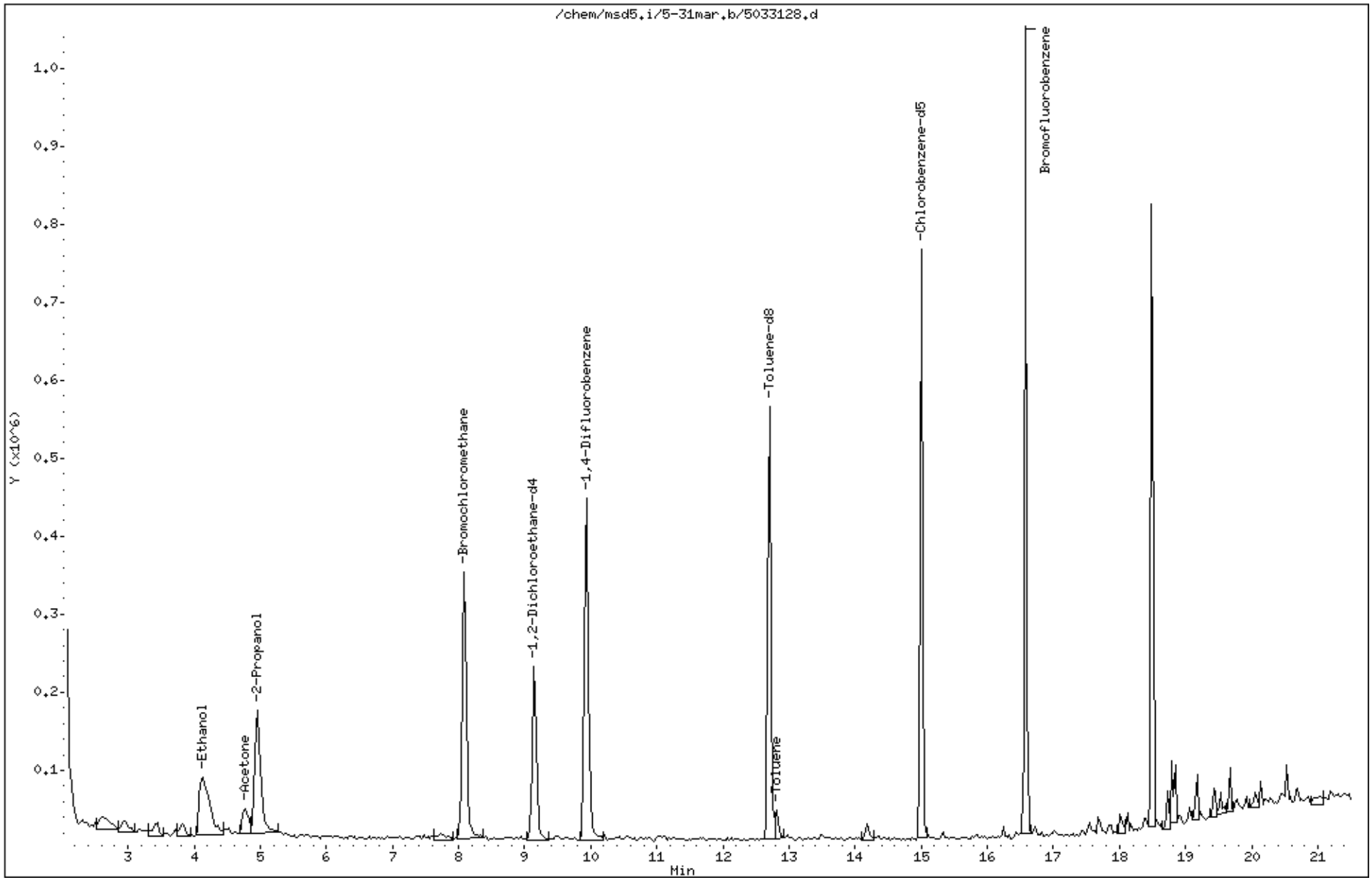
Sample Info: 200mL #23921

Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53



Data File: /chem/msd5.i/5-31mar.b/5033128.d

Date : 01-APR-2008 01:10

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

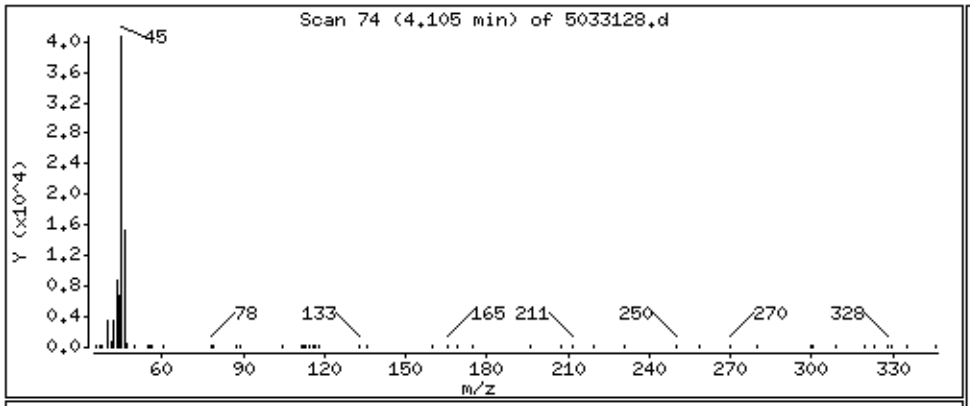
Operator: cb

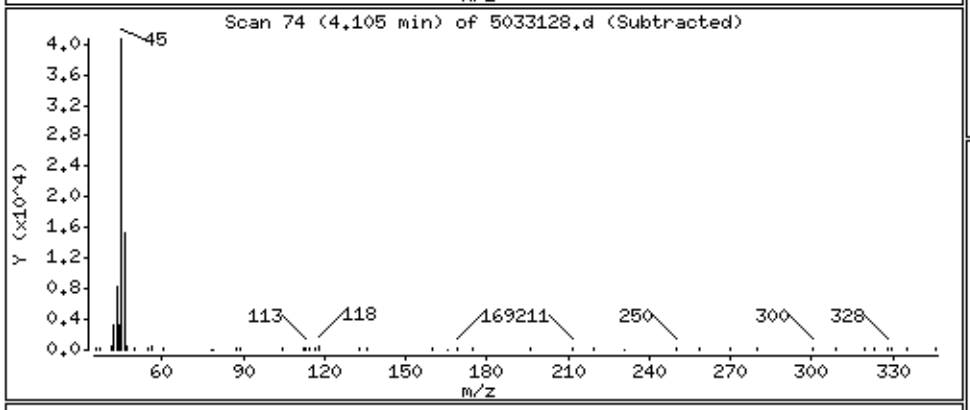
Column phase: RTx-624

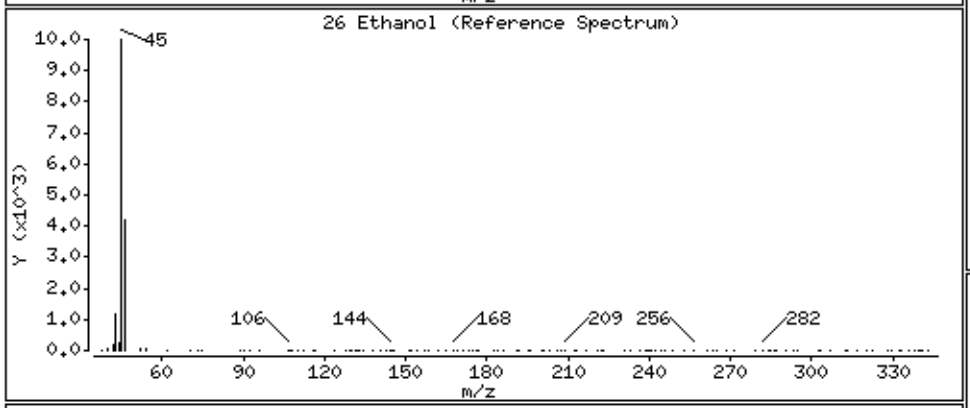
Column diameter: 0.53

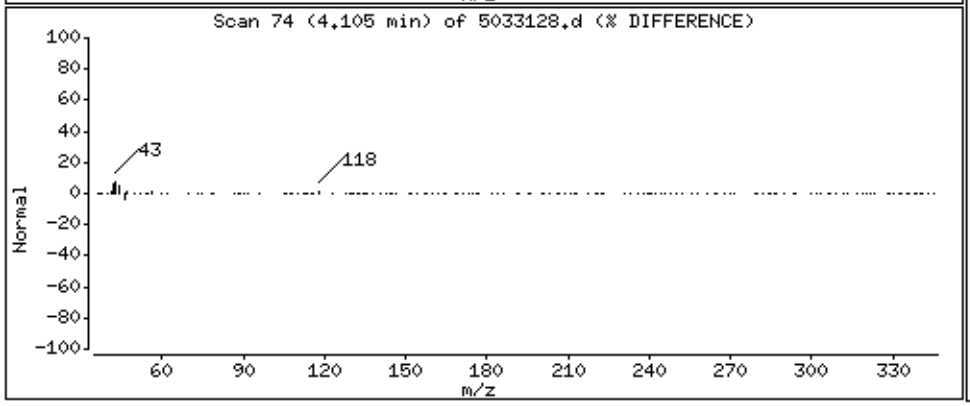
26 Ethanol

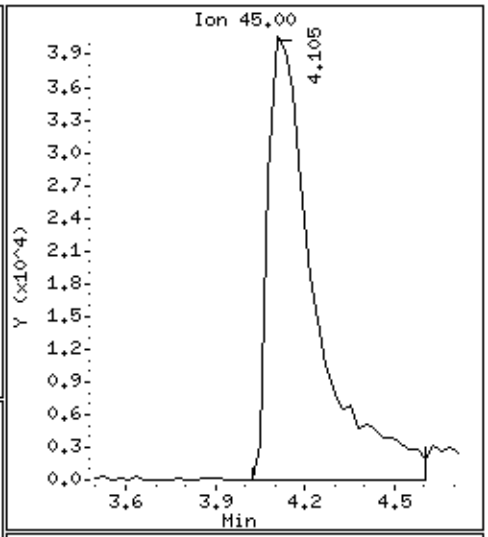
Concentration: 71.786 PPBV

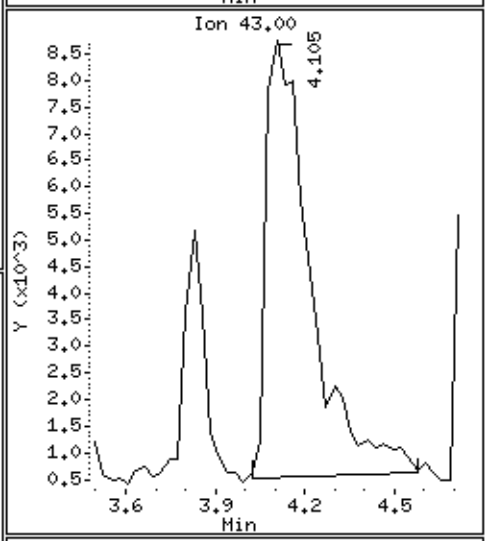


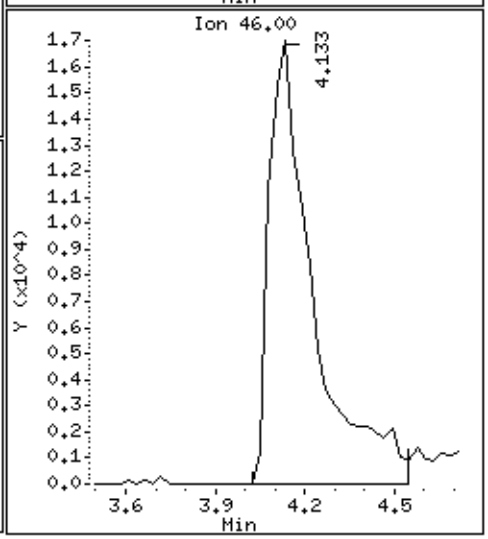












Data File: /chem/msd5.i/5-31mar.b/5033128.d

Date : 01-APR-2008 01:10

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

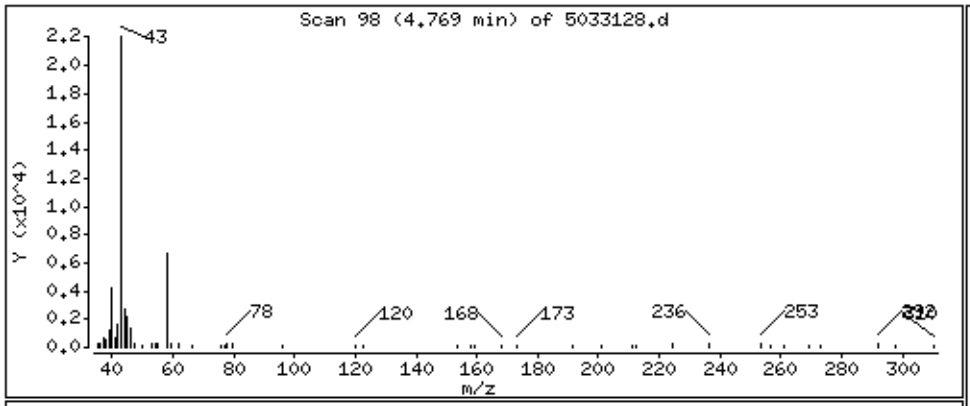
Operator: cb

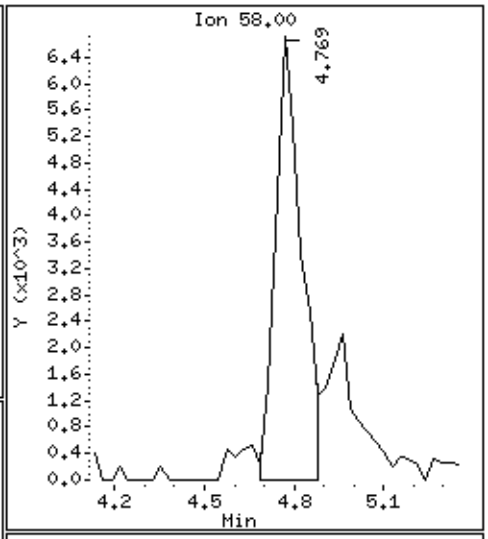
Column phase: RTx-624

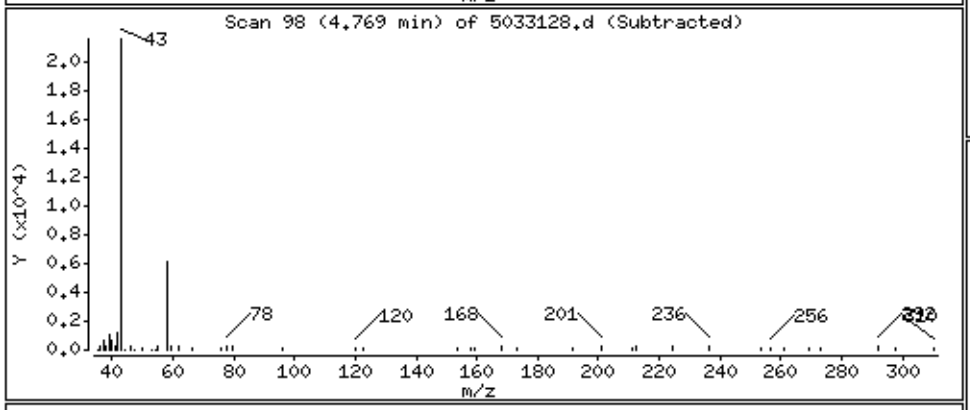
Column diameter: 0.53

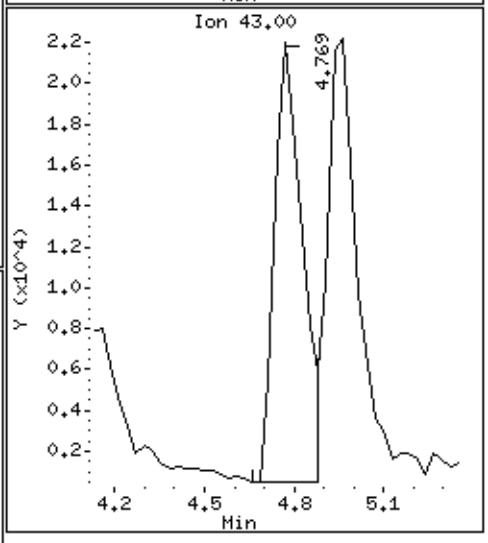
32 Acetone

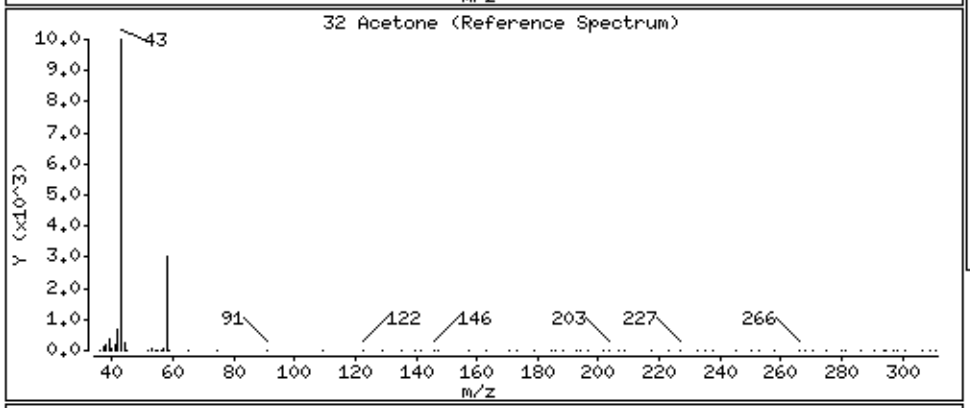
Concentration: 5.890 PPBV

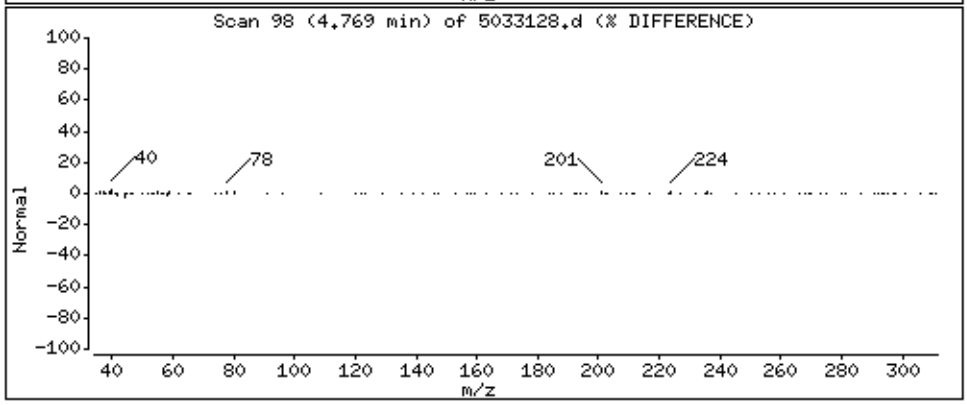












Data File: /chem/msd5.i/5-31mar.b/5033128.d

Date : 01-APR-2008 01:10

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

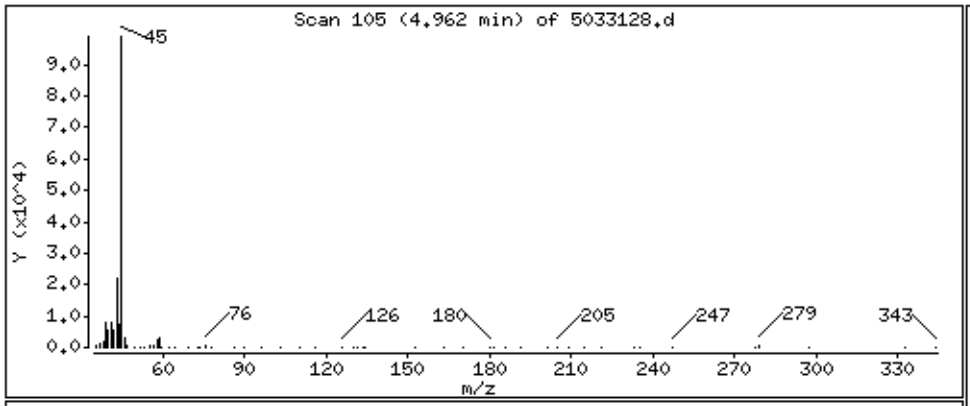
Operator: cb

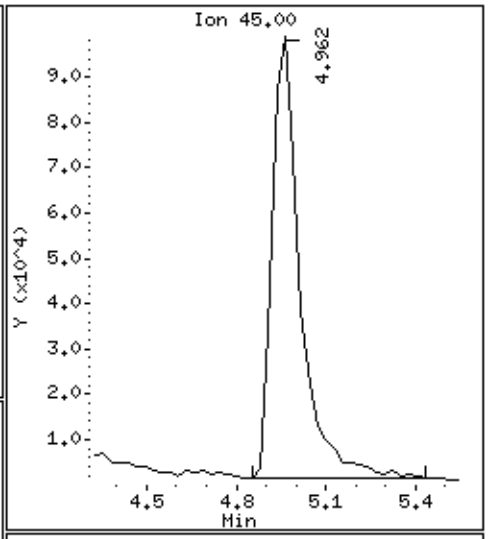
Column phase: RTx-624

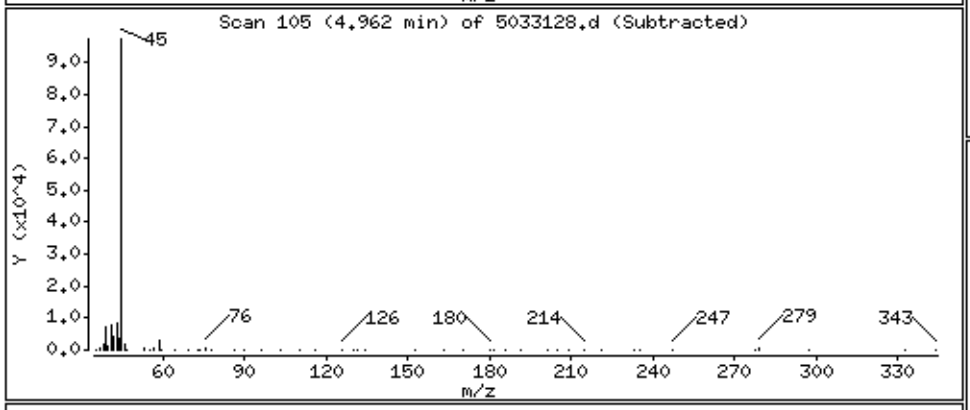
Column diameter: 0.53

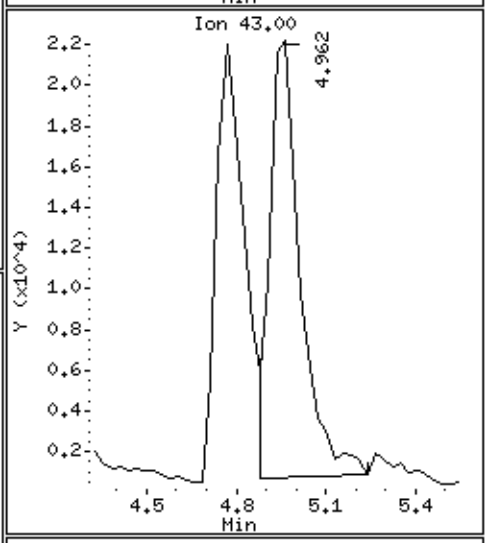
36 2-Propanol

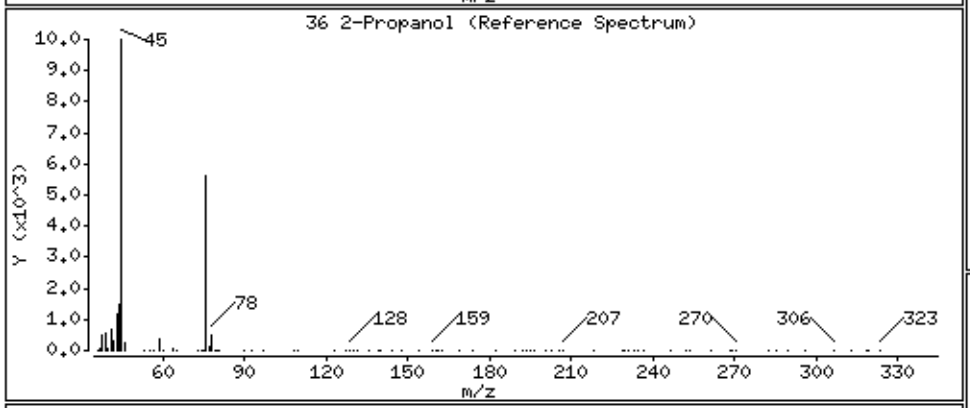
Concentration: 21.201 PPBV

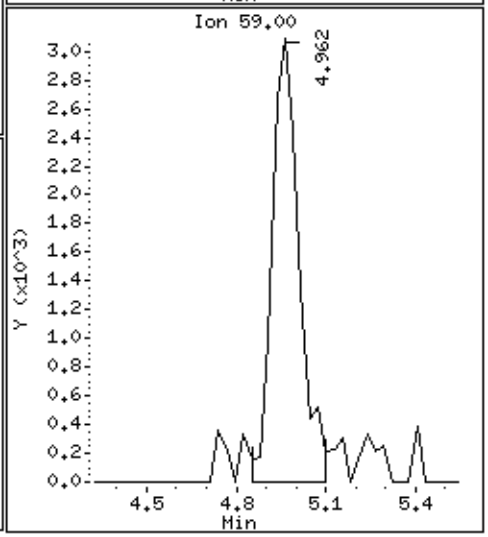


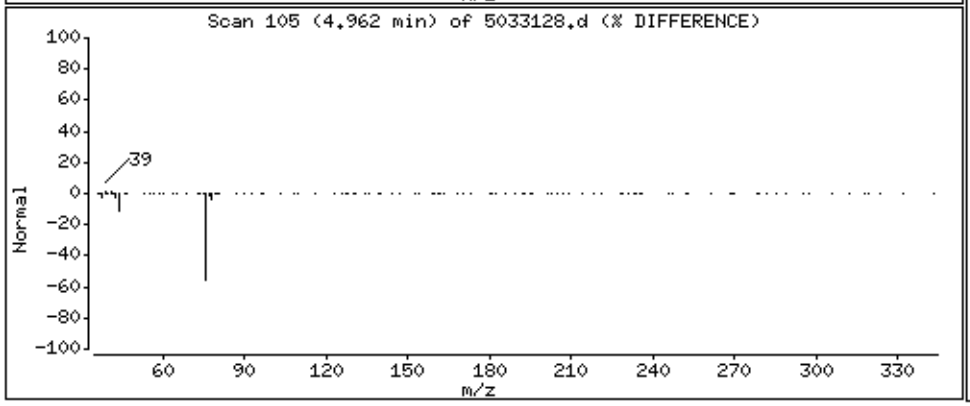












Data File: /chem/msd5.i/5-31mar.b/5033128.d

Date : 01-APR-2008 01:10

Client ID:

Instrument: msd5.i

Sample Info: 200mL #23921

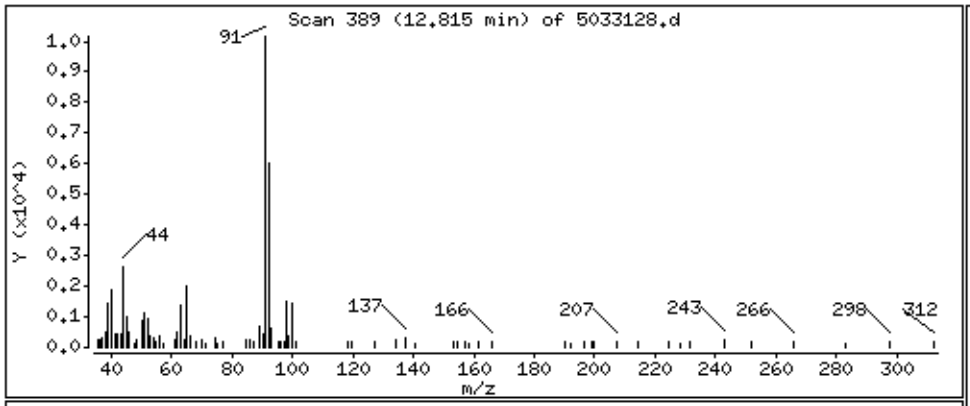
Operator: cb

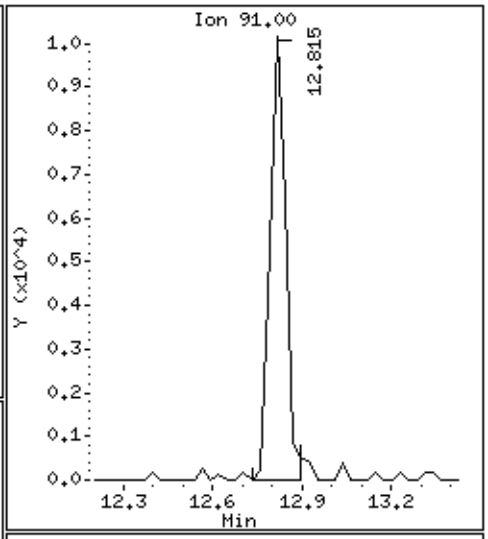
Column phase: RTx-624

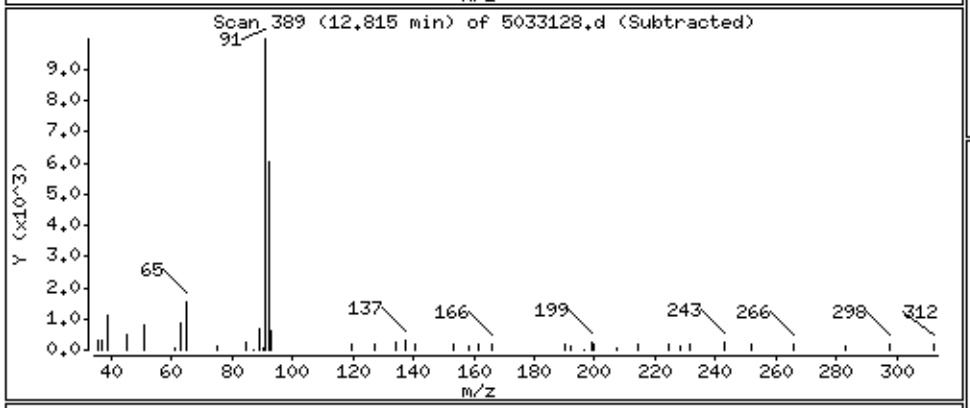
Column diameter: 0.53

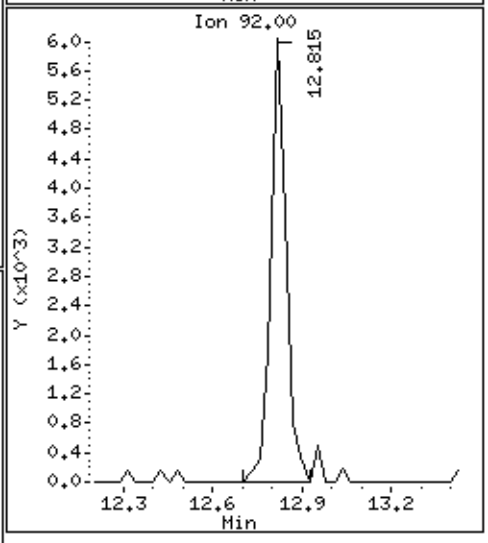
108 Toluene

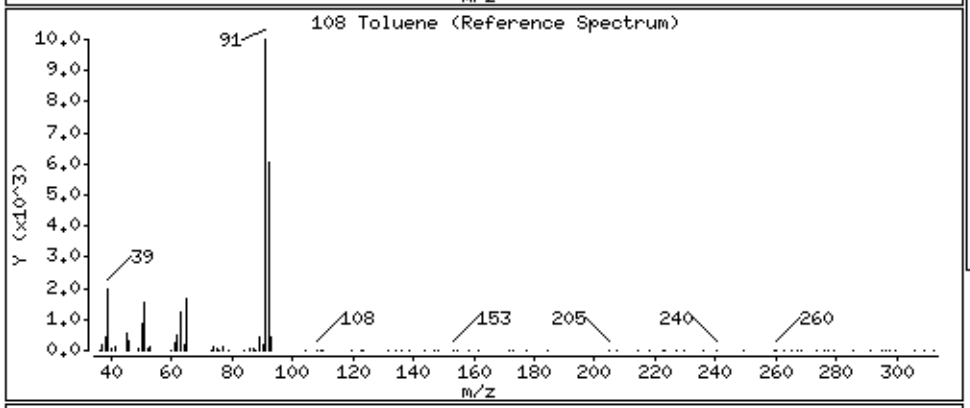
Concentration: 1.570 PPBV

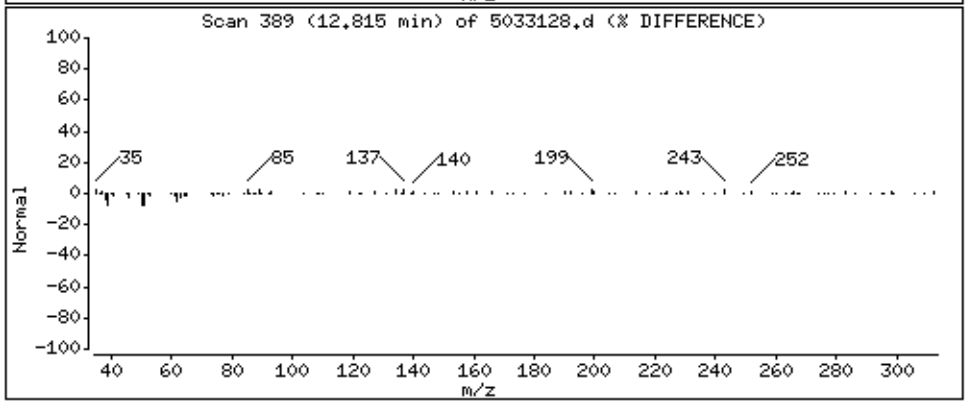












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5

Lab ID#: 0803479-02A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0803479-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033129**	**Date of Collection:**	**3/20/08**
Dil. Factor:	**1.71**	**Date of Analysis:**	**4/1/08 01:43 AM**

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0803479-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033129**	**Date of Collection: 3/20/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 4/1/08 01:43 AM**	

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033129.d
Lab Smp Id: 0803479-02A
Inj Date : 01-APR-2008 01:43
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #12957
Misc Info : 6.5"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 02-Apr-2008 12:16 ctaylor Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.71000
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		
8.087	8.087 (1.000)	130	230128	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	174417			48.30- 108.30	75.79
8.087	8.087 (1.000)	49	507529			186.10- 246.10	220.54
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	772120	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	124889			0.00- 46.24	16.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	530020	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	306797			0.00- 30.00	57.88
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	356540	20.3882	20.388	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	168048			19.51- 79.51	47.13
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	666536	23.5421	23.542	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	68760			0.00- 41.02	10.32

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 (1.278)	100	430636			39.73- 99.73	64.61
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	316623	22.9616	22.962	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	456898			113.08- 173.08	144.30
16.575	16.575 (1.105)	176	292093			65.67- 125.67	92.25

Report Date: 03-Apr-2008 14:32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033129.d
Lab Smp Id: 0803479-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 6.5"Hg -> 5psi

Calibration Date: 31-MAR-2008
Calibration Time: 08:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	323835	194301	453369	230128	-28.94
92 1,4-Difluorobenze	1073233	643940	1502526	772120	-28.06
125 Chlorobenzene-d5	666140	399684	932596	530020	-20.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Apr-2008 14:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-31mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803479-02A
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/5-31mar.b/t14q221a.m
Misc Info: 6.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.388	81.55	70-130
$ 107 Toluene-d8	25.000	23.542	94.17	70-130
$ 138 Bromofluorobenzene	25.000	22.962	91.85	70-130

Data File: /chem/msd5.i/5-31mar.b/5033129.d

Date : 01-APR-2008 01:43

Client ID:

Sample Info: 200mL #12957

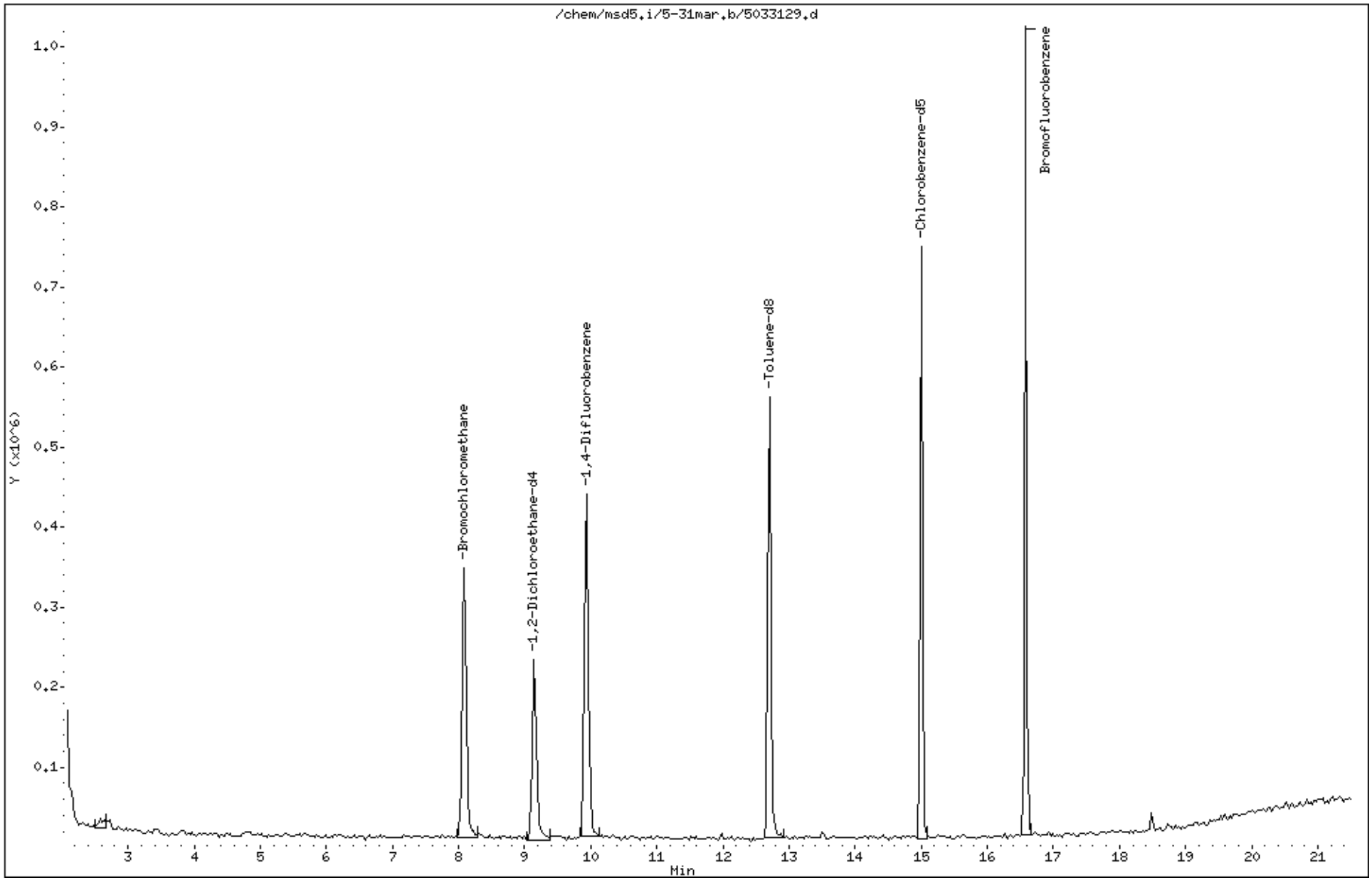
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0037



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: Trip Blank

Lab ID#: 0803479-03A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0803479-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033130**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/1/08 02:15 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0803479-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033130**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/1/08 02:15 AM**	

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

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

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033130.d
Lab Smp Id: 0803479-03A
Inj Date : 01-APR-2008 02:15
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #22508
Misc Info : 4.6psi -> 4.6psi
Comment :
Method : /chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 02-Apr-2008 12:16 ctaylor 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		
8.087	8.087 (1.000)	130	217095	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	175138			48.30- 108.30	80.67
8.087	8.087 (1.000)	49	506204			186.10- 246.10	233.17
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	754305	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	117963			0.00- 46.24	15.64
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	530340	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	293588			0.00- 30.00	55.36
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	354204	21.4705	21.470	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	161706			19.51- 79.51	45.65
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	633702	22.9110	22.911	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	64941			0.00- 41.02	10.25

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 (1.278)	100	420835			39.73- 99.73	66.41
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	306888	22.2422	22.242	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	448309			113.08- 173.08	146.08
16.575	16.575 (1.105)	176	287242			65.67- 125.67	93.60

Report Date: 03-Apr-2008 14:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033130.d
Lab Smp Id: 0803479-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 4.6psi -> 4.6psi

Calibration Date: 31-MAR-2008
Calibration Time: 08:10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	323835	194301	453369	217095	-32.96
92 1,4-Difluorobenze	1073233	643940	1502526	754305	-29.72
125 Chlorobenzene-d5	666140	399684	932596	530340	-20.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 03-Apr-2008 14:33

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-31mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803479-03A
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/5-31mar.b/t14q221a.m
Misc Info: 4.6psi -> 4.6psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.470	85.88	70-130
$ 107 Toluene-d8	25.000	22.911	91.64	70-130
$ 138 Bromofluorobenzene	25.000	22.242	88.97	70-130

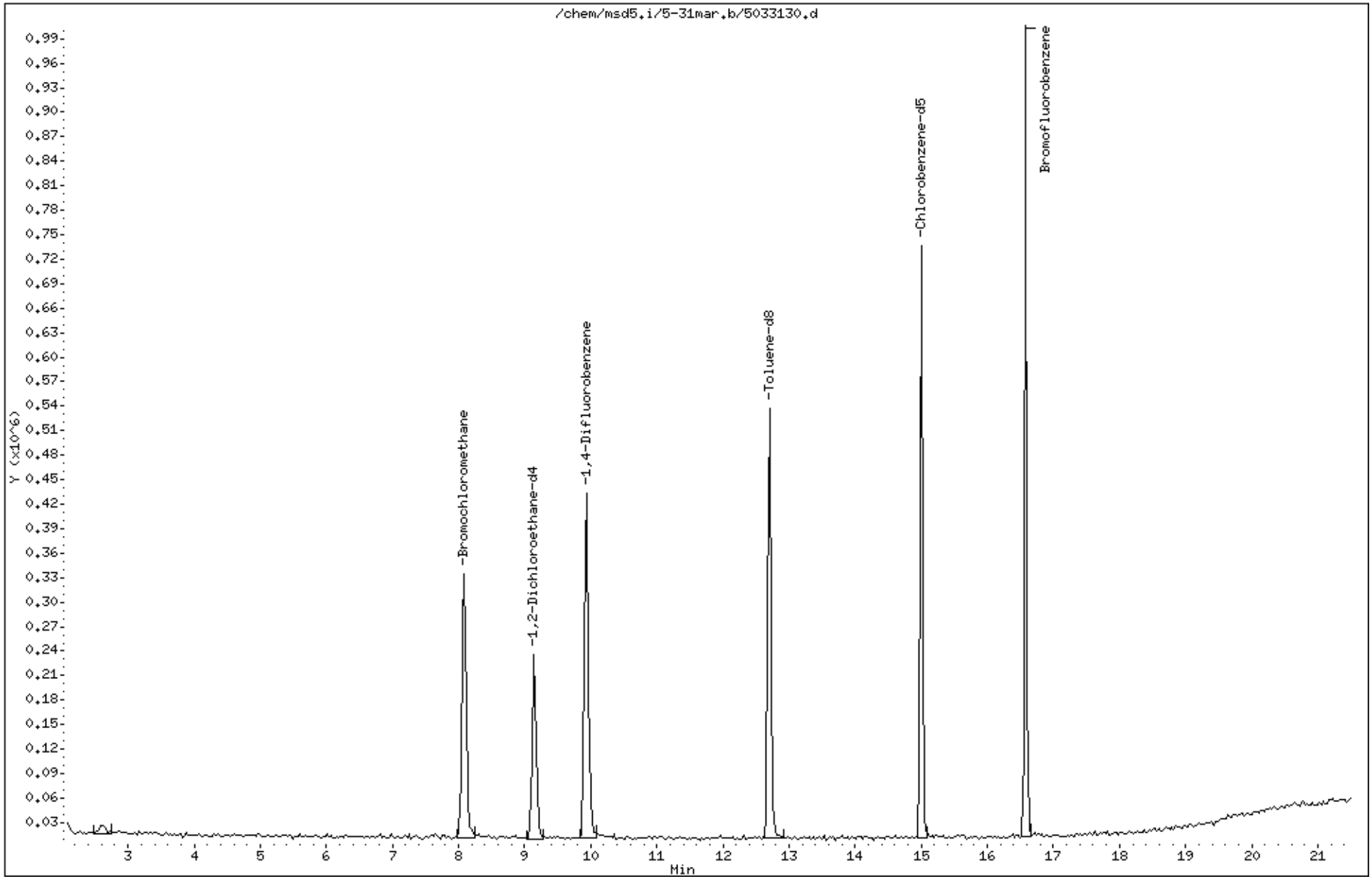
0045

Data File: /chem/msd5.i/5-31mar.b/5033130.d
Date : 01-APR-2008 02:15
Client ID:
Sample Info: 200mL #22508

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803479-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/31/06 12:50 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#: 0803479-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/31/06 12:50 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	102	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033107.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 31-MAR-2008 11:37
Operator : srs Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Cart #8/ Leg #8
Comment :
Method : /chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 31-Mar-2008 09:28 sscott 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	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	231556	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	178881			48.30- 108.30	77.25
8.087	8.059 (1.000)	49	509717			186.10- 246.10	220.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	757560	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	122140			0.00- 46.24	16.12
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	515402	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	287956			0.00- 30.00	55.87
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	359607	20.4367	20.437	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	166836			19.51- 79.51	46.39
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	617745	22.2382	22.238	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	64735			0.00- 41.02	10.48

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 (1.278)	100	405655			39.73- 99.73	65.67
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	283479	21.1411	21.141	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	432723			113.08- 173.08	152.65
16.575	16.575 (1.105)	176	266601			65.67- 125.67	94.05

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033107.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: Cart #8/ Leg #8

Calibration Date: 31-MAR-2008
Calibration Time: 08:10
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	323835	194301	453369	231556	-28.50
92 1,4-Difluorobenze	1073233	643940	1502526	757560	-29.41
125 Chlorobenzene-d5	666140	399684	932596	515402	-22.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 31-Mar-2008 11:45

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-31mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08+a.sub
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: Cart #8/ Leg #8

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.437	81.75	70-130
$ 107 Toluene-d8	25.000	22.238	88.95	70-130
$ 138 Bromofluorobenzene	25.000	21.141	84.56	70-130

Data File: /chem/msd5.i/5-31mar.b/5033107.d

Date : 31-MAR-2008 11:37

Client ID: Lab Blank

Sample Info: 200mL #12941

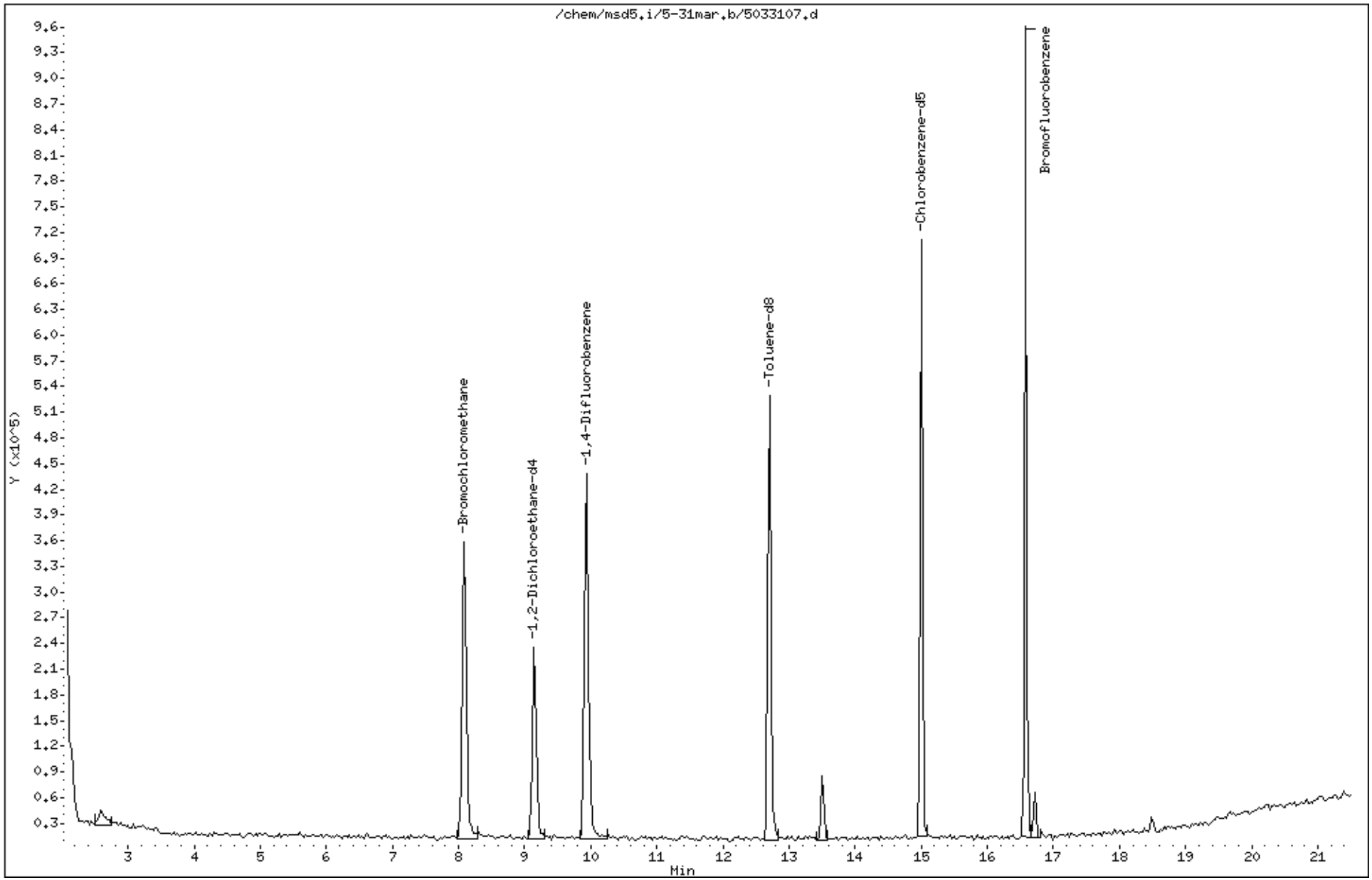
Column phase: RTx-624

Instrument: msd5.i

Operator: srs

Column diameter: 0.53

0053



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0803479

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 3	82		91		91				0
02	DW AMS 3 Lab Duplicate	84		92		89				0
03	UW AMS 5	82		94		92				0
04	Trip Blank	86		92		89				0
05	Lab Blank	94		102		100				0
06	CCV	82		90		95				0
07	LCS	81		97		94				0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0803479
Lab File ID: 5033102.d
Date Analyzed: 03/31/2008
Instrument ID: msd5.i
Time Analyzed: 08:10 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	666140		15		1073233		9.94		323835		8.09	
	UPPER LIMIT	932596		15.33		1502526		10.27		453369		08.42	
	LOWER LIMIT	399684		14.67		643940		09.61		194301		07.76	
	CLIENT SAMPLE NO												
01	DW AMS 3	532200		15		783004		9.94		230388		8.09	
02	DW AMS 3 Lab Duplicate	549888		15		779235		9.94		230788		8.09	
03	UW AMS 5	530020		15		772120		9.94		230128		8.09	
04	Trip Blank	530340		15		754305		9.94		217095		8.09	
05	CCV	666140		15		1073233		9.94		323835		8.09	
06	LCS	568659		15		818024		9.94		242925		8.09	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: 5033128.d & 5033127.d

Lab Sample ID: 01A & 01AA Dilution: 1.30 & 1.30

Client Sample ID: & Date Analyzed: 4/1/08 & 4/1/08

		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	20.82		21.201		1.8
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	5.62		5.89		4.7
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	ND	U	ND	U	0
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
108-90-7	Chlorobenzene	ND	U	ND	U	0
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	72.508		71.786		1.0
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: 5033128.d & 5033127.d
Lab Sample ID: 01A & 01AA
Dilution: 1.30 & 1.30
Client Sample ID: &
Date Analyzed: 4/1/08 & 4/1/08

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate 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	1.475		1.57		6.2
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.

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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.

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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.

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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.

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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.

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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.

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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							
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.

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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.

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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.

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Target Version : 3.50
Integrator : HP RTE
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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
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.

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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							
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

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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

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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

0078

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	66.49
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 x10⁻⁶ 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: (902912 / 917852) x100 = 98.362

NOAH Cart #: ______ **File #:** ______

Calculation Check:

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

Reported Result 24.849

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

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5022114	BFB Tune Check	1476-191	50ug	2.0ul	1.00	2/21/08	1716	CB	
2	X	15	ICAL Level 1	1576-263	0.2ppbv	0.2ml	↓	↓	1743	CB	
3	✓	16	2	↓	0.5ppbv	0.5ml			1811	CB	t14g2216
4	✓	17	3		2.0ppbv	2.0ml			1839	CB	↓
5	✓	18	4		25ppbv	25ml			1907	CB	
6	✓	19	5		50ppbv	50ml			1935	CB	CCV
7	✓	20	6		100ppbv	100ml			2004	CB	
8	✓	21	7	↓	200ppbv	200ml			2036	CB	↓
9	X	22	System Blank	12941	Humid	200mL	↓	↓	2137	CB	

Signature: [signature]

Date: 2/22/08

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	5022123	~~Lab Blank~~ 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	tl14q221a
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	2 mL			1108	CB	
15	✓	28	↓ 5	↓	200ppbv-50ppbv	50mL			1136	CB	tl14q221q 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

6700

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

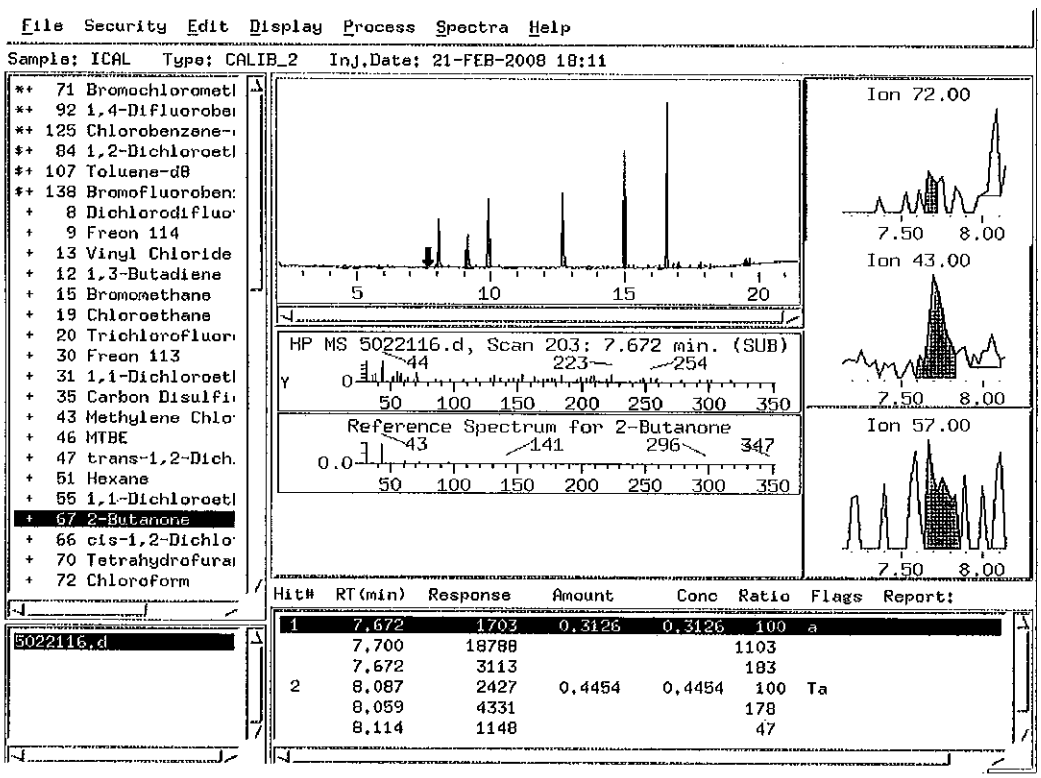
(from 2/15/08)

Signature

2/22/08
Date

Before

Poor integration



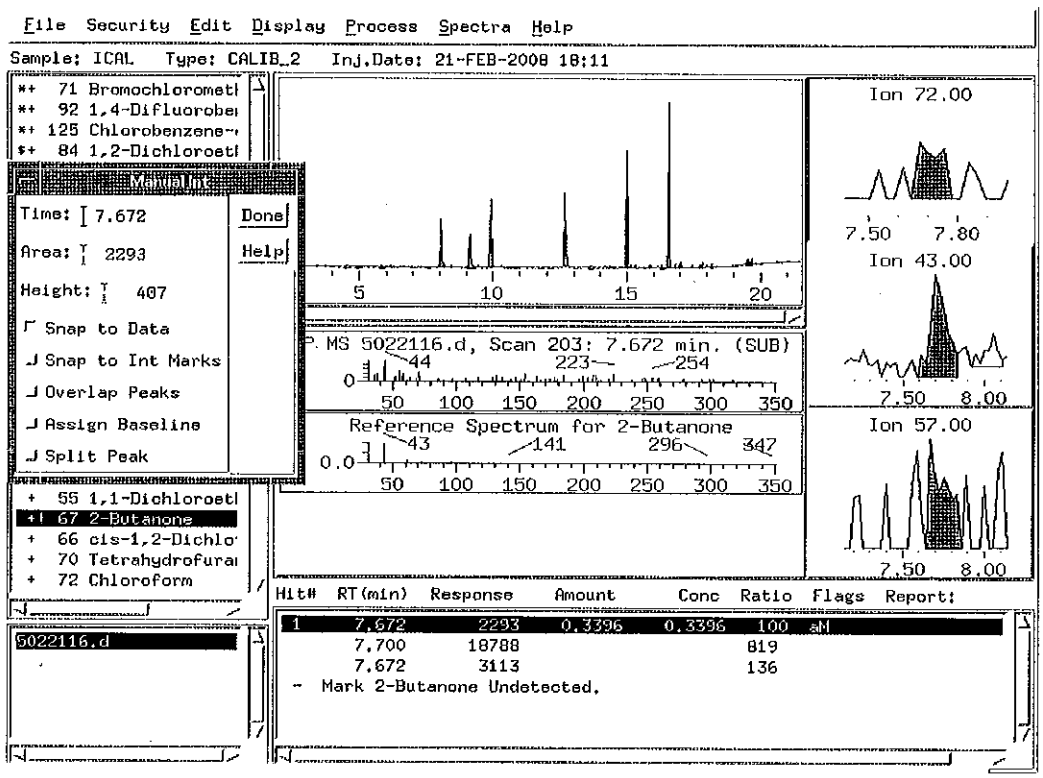
CB 2/22/08

Integration
Split Peak
Peak Tailing
Background Subtraction
In

After

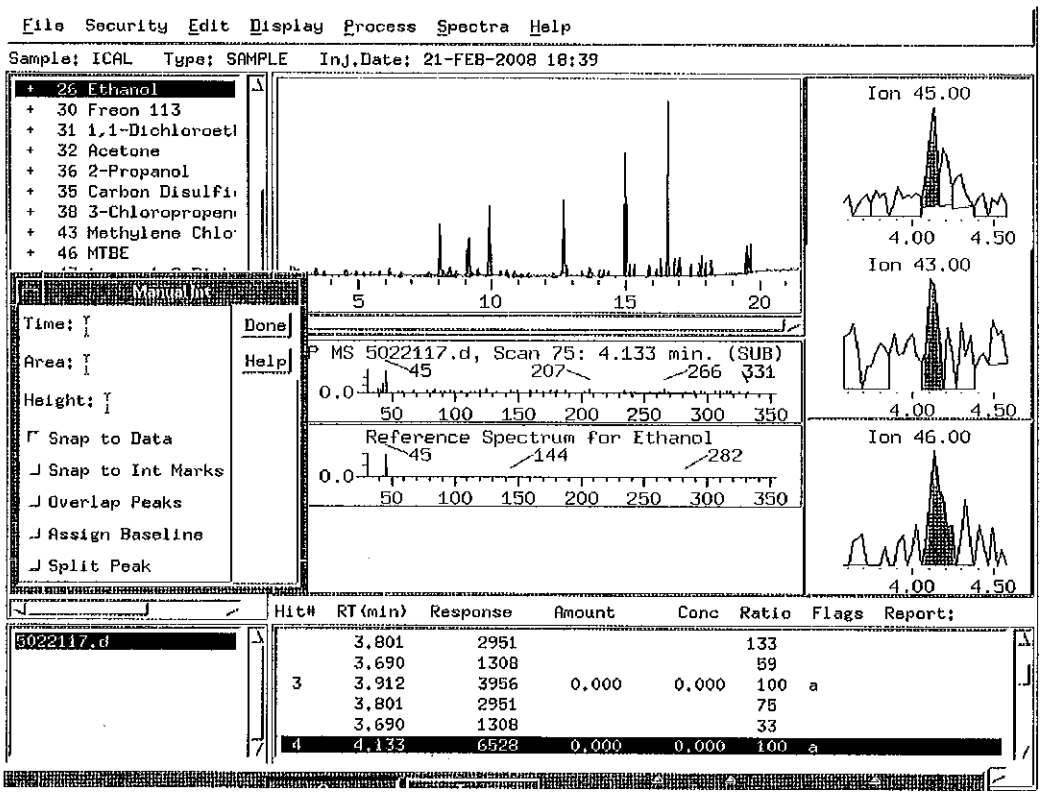
Merged Peak ✓

PR 2/22/08



poor integration

Before

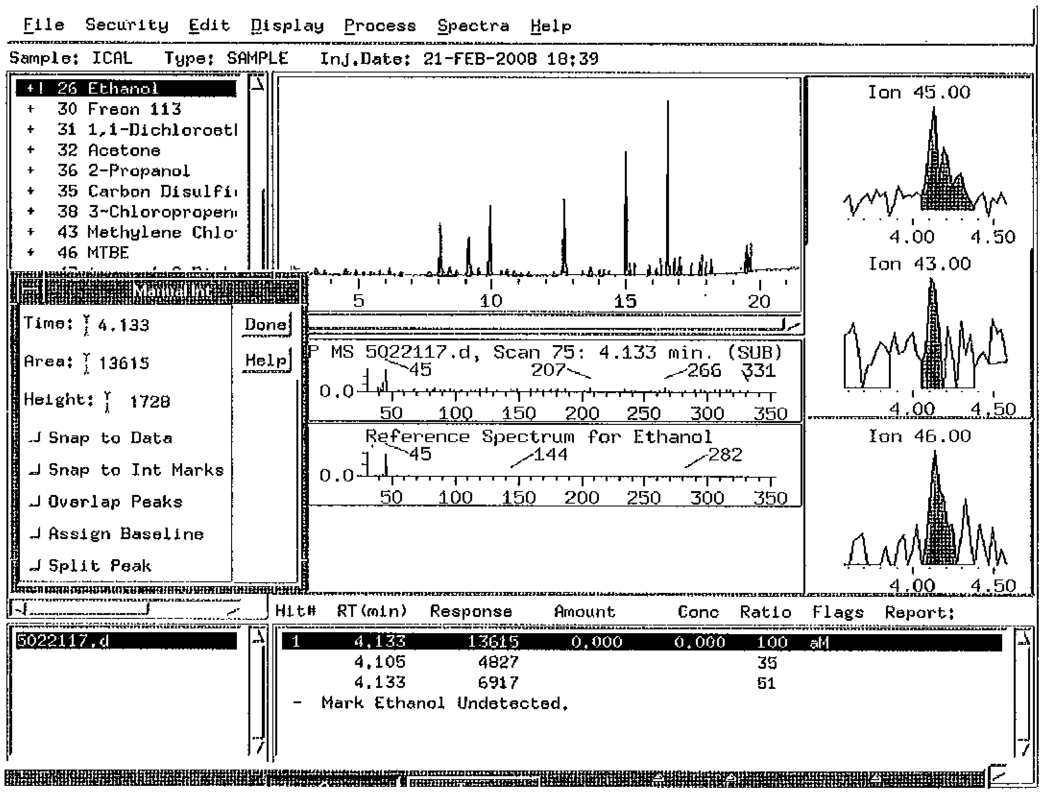


After

CB 2/22/08

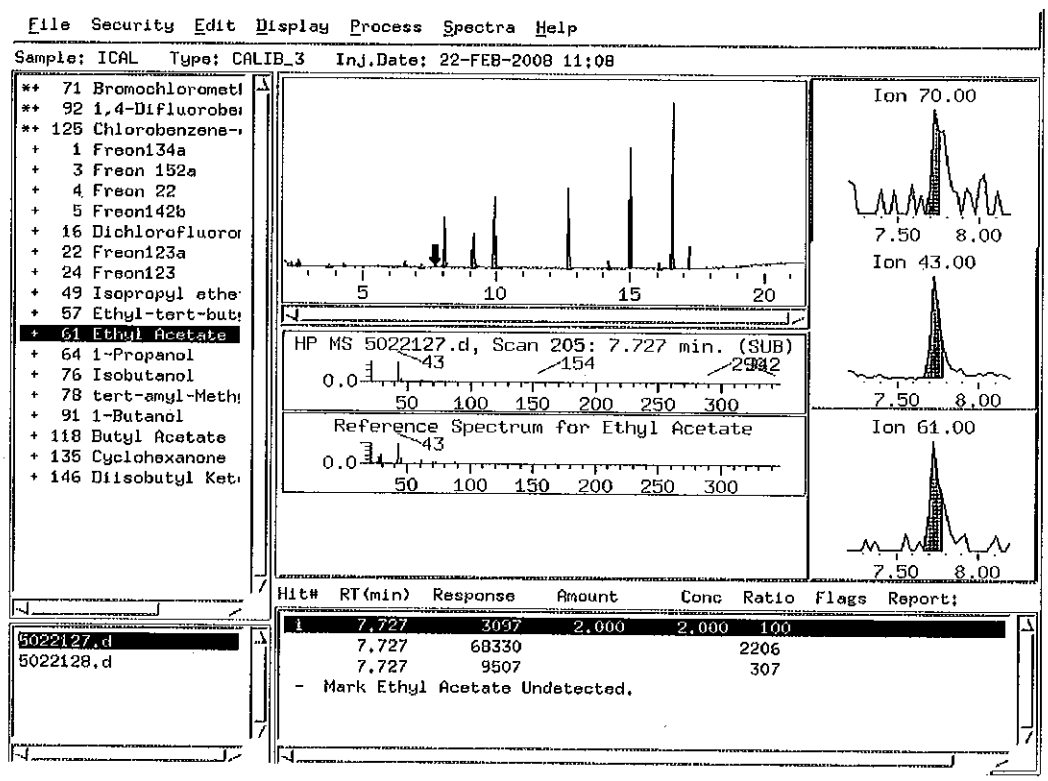
...integration	
...lit Peak	
...ak Tailing	
...kground Subtraction	
...n In	
Merged Peak	✓

MT 2/22/08



poor integration

Before



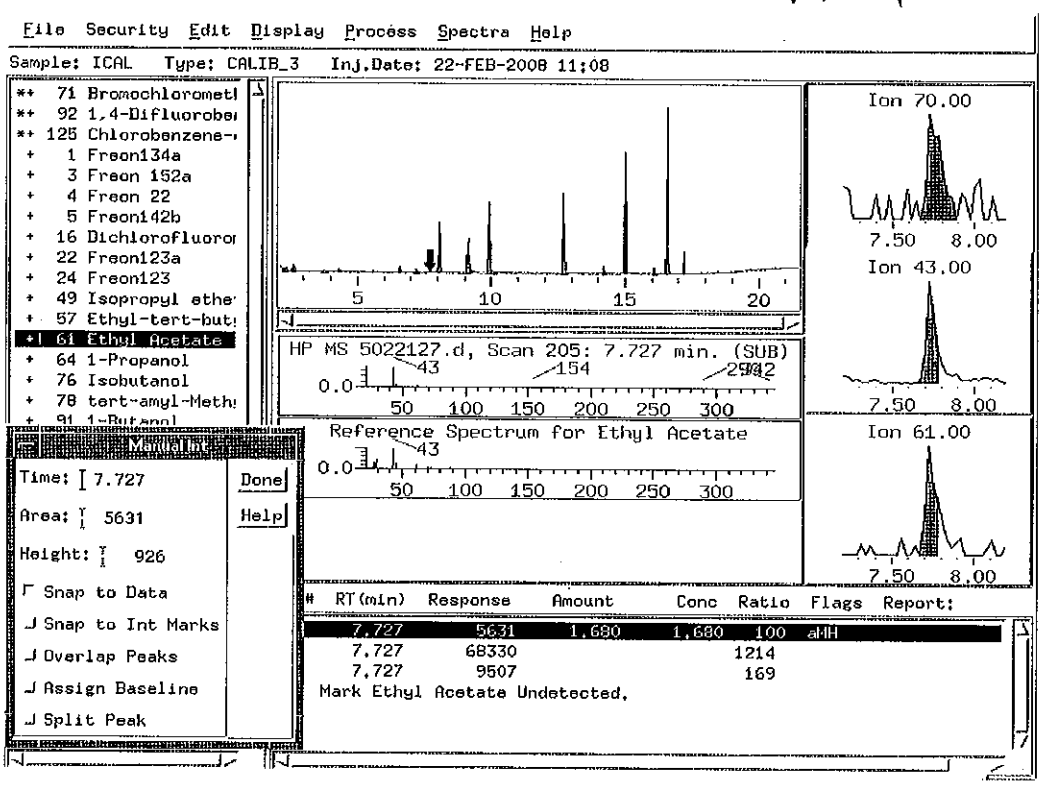
CB 2/22/08

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)	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

Report Date: 22-Feb-2008 13:19

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

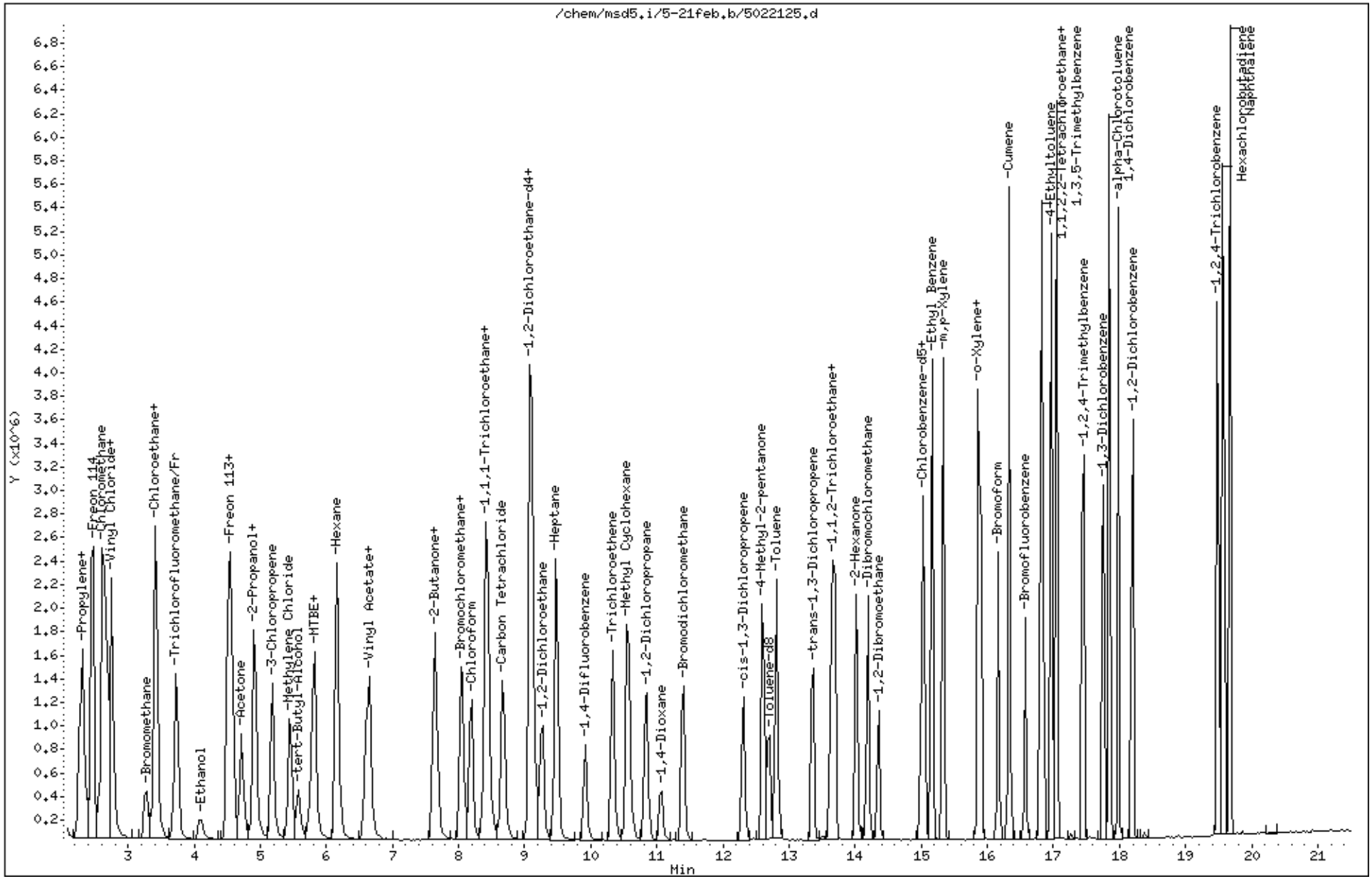
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.054	96.22	70-130
$ 107 Toluene-d8	25.000	25.278	101.11	70-130
$ 138 Bromofluorobenzene	25.000	24.797	99.19	70-130

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



0098

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.

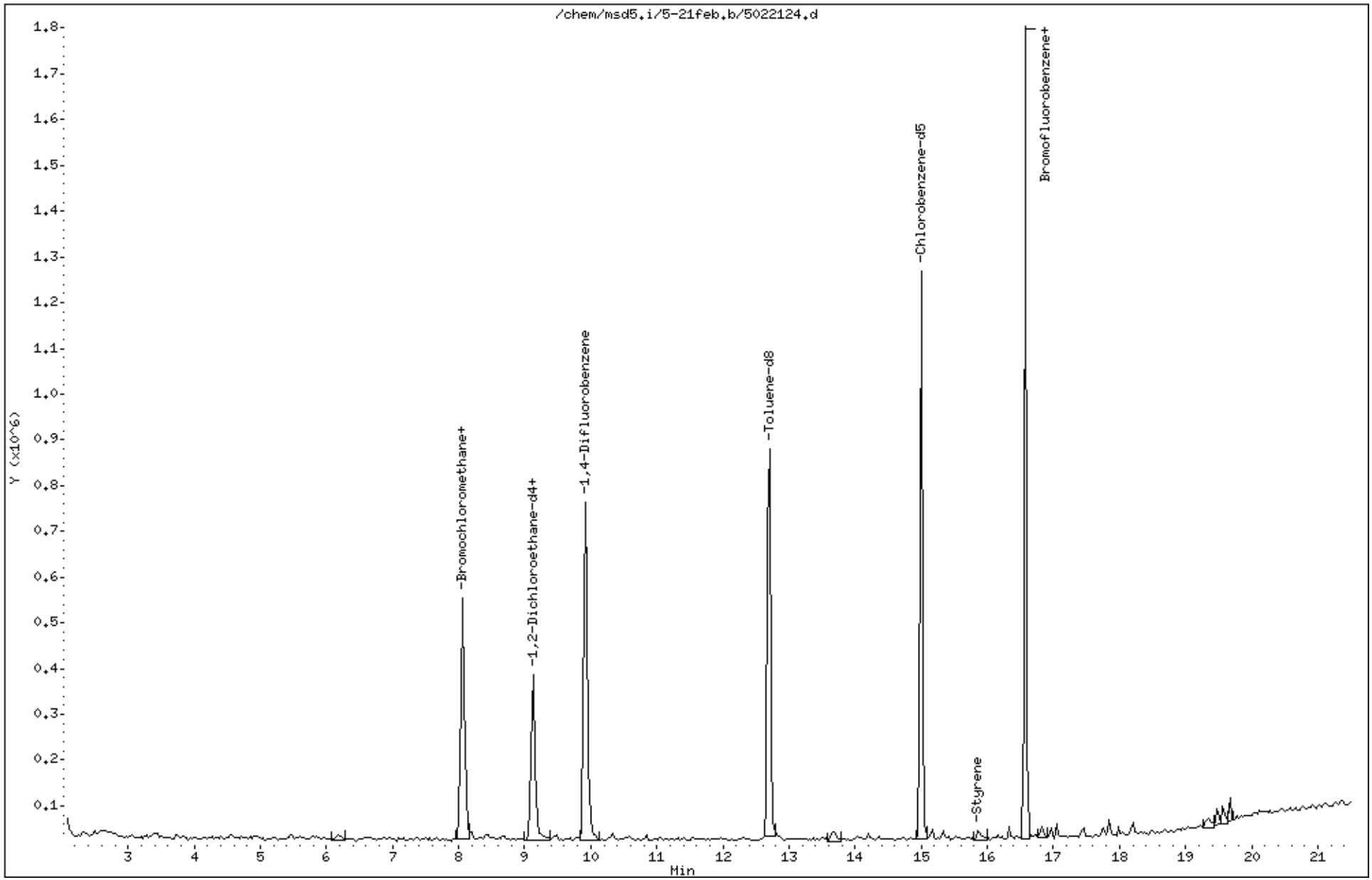
0102

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.

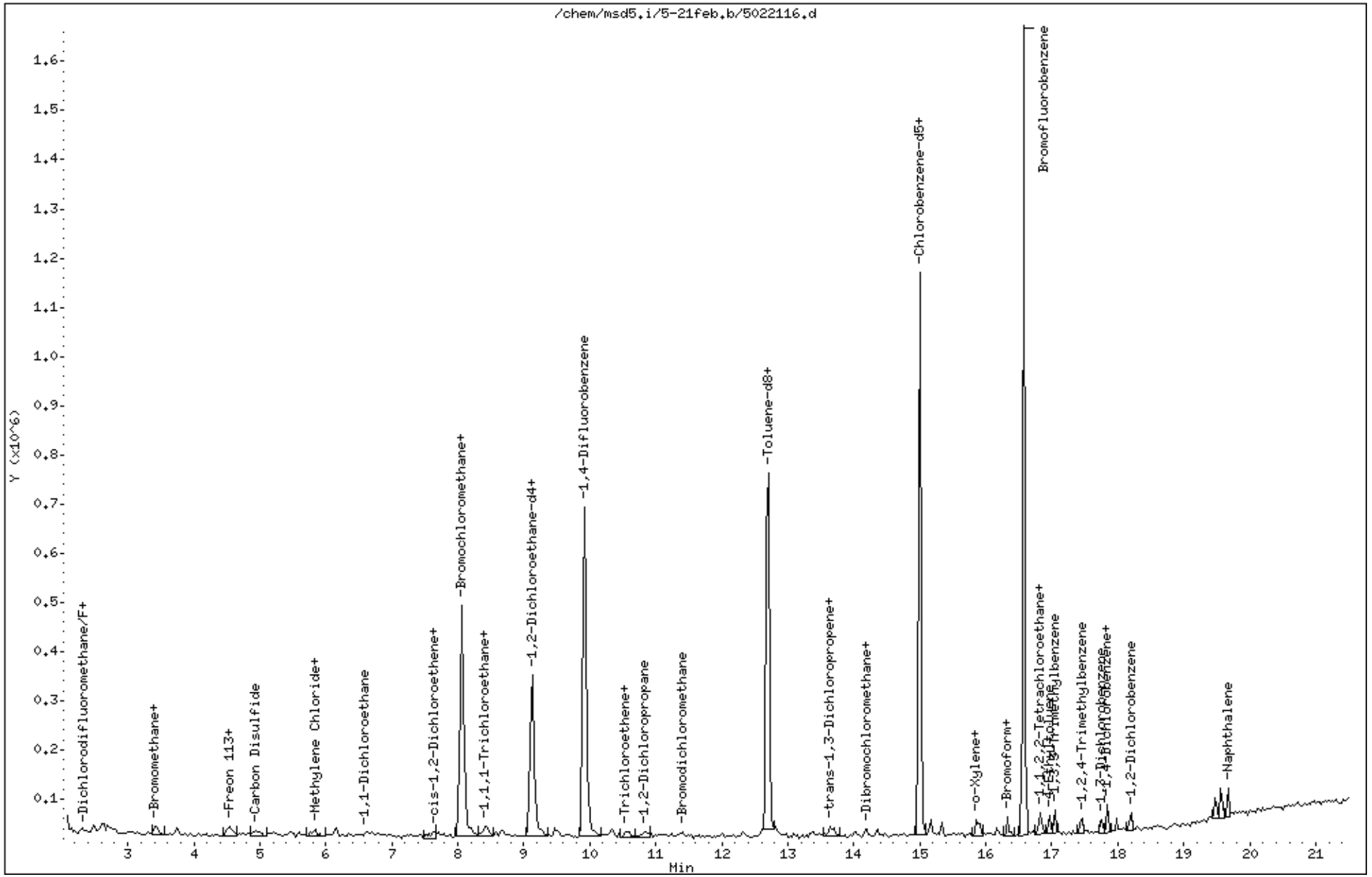
Data File: /chem/msd5.i/5-21feb.b/5022116.d
Date : 21-FEB-2008 18:11
Client ID: Level 2
Sample Info: 0.5mL #1576-263

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624

0111



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.

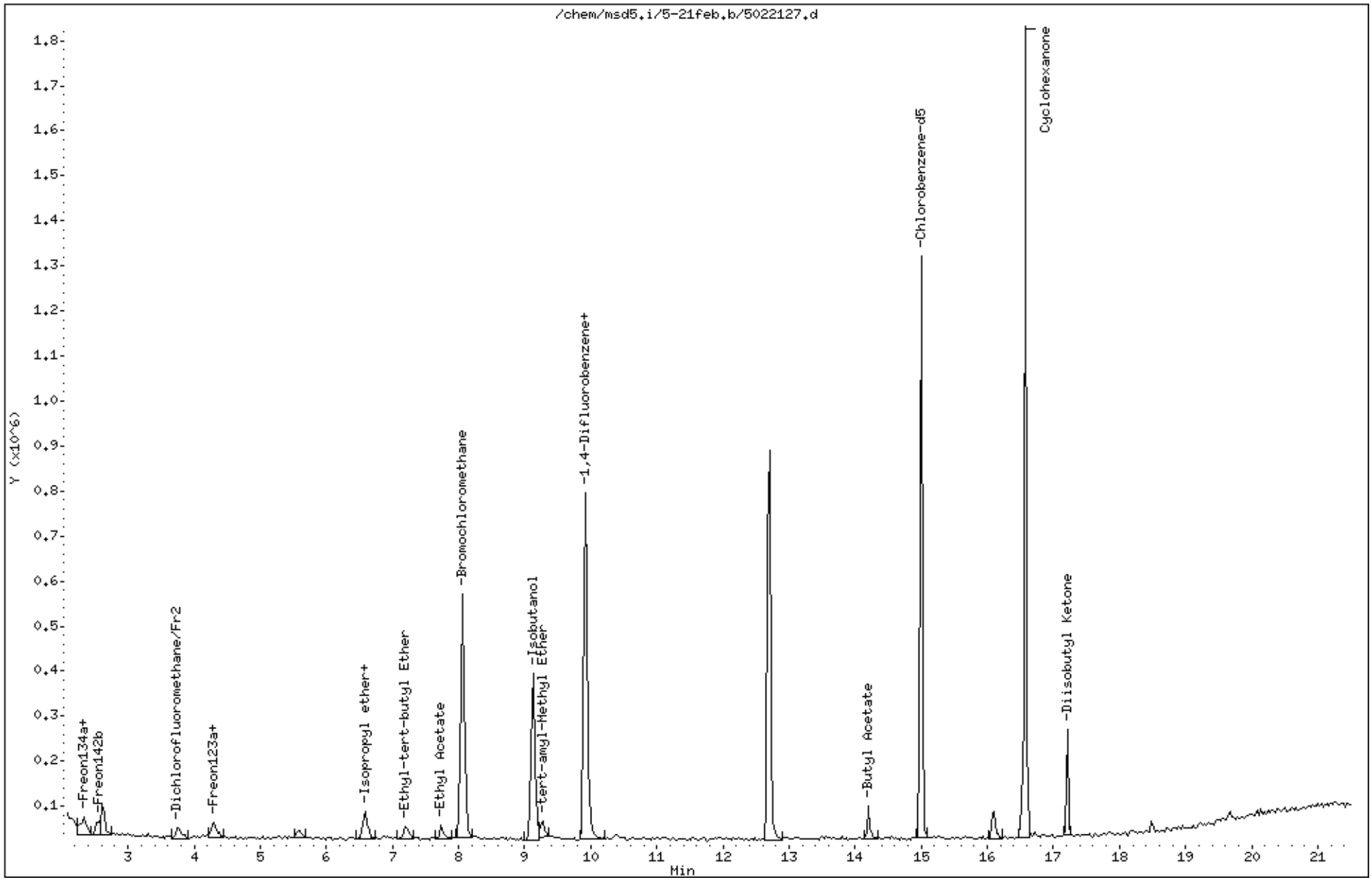
0116

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

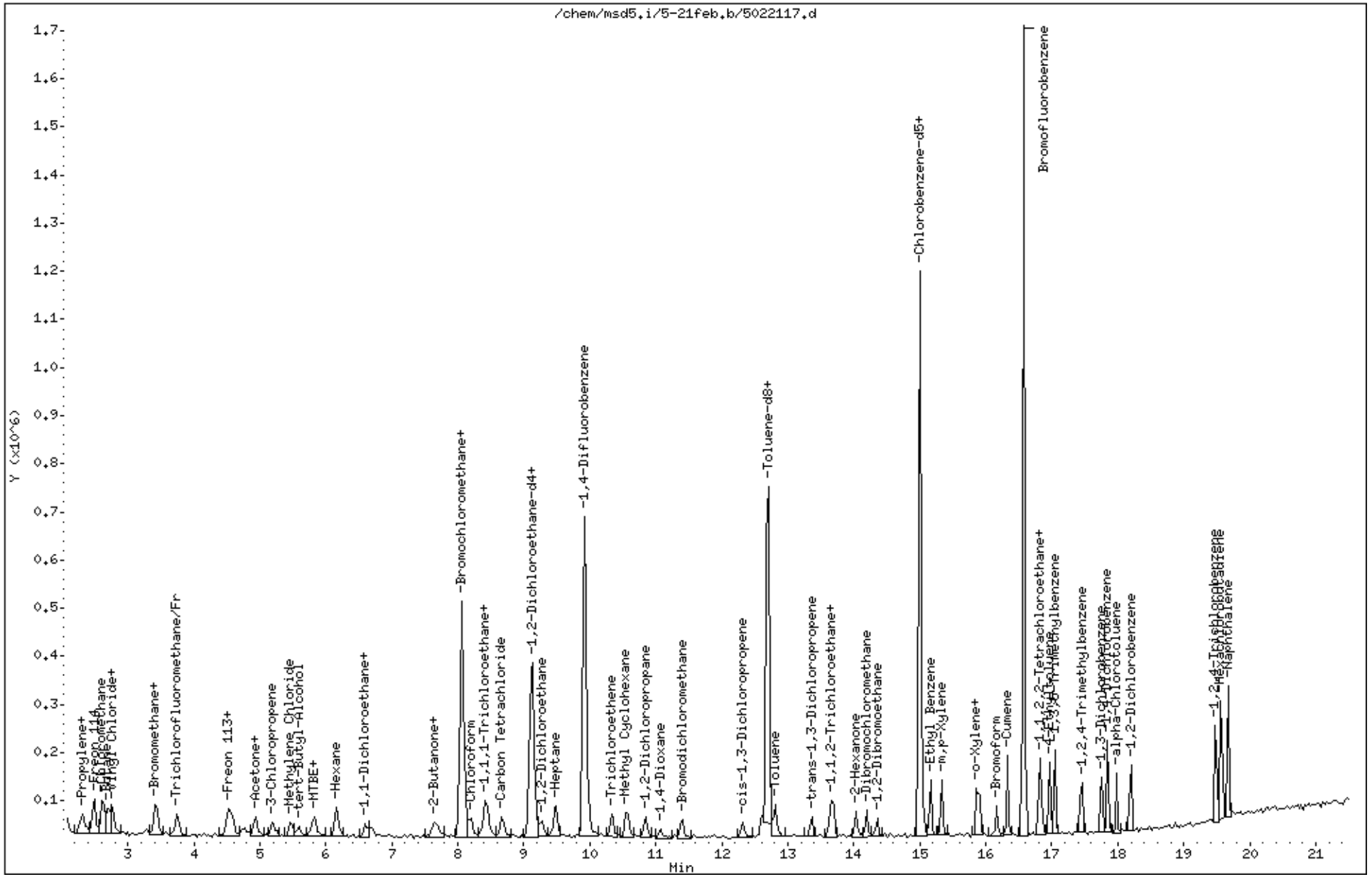
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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



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)	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

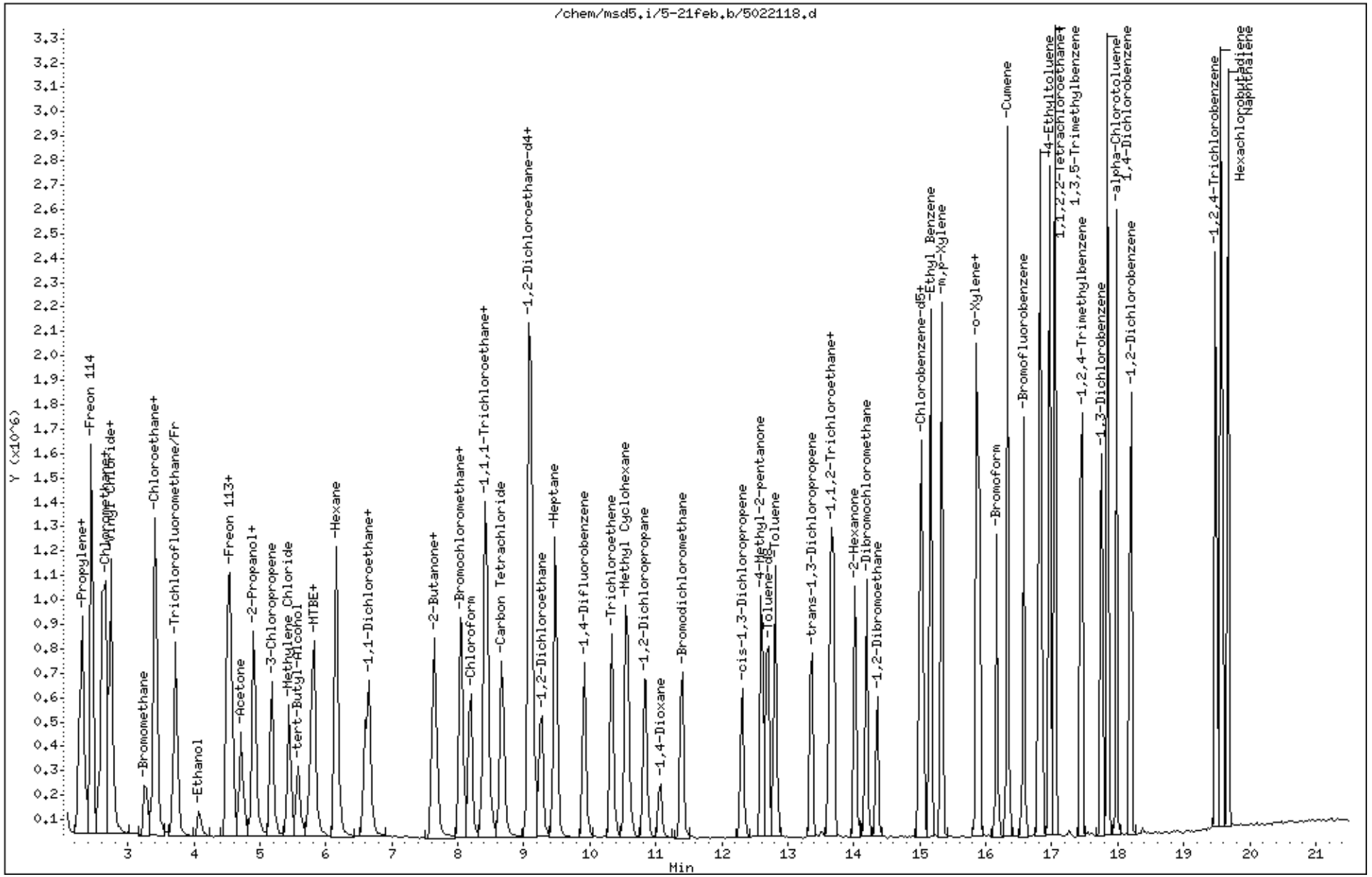
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

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

Column phase: RTx-624



0136

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

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	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.

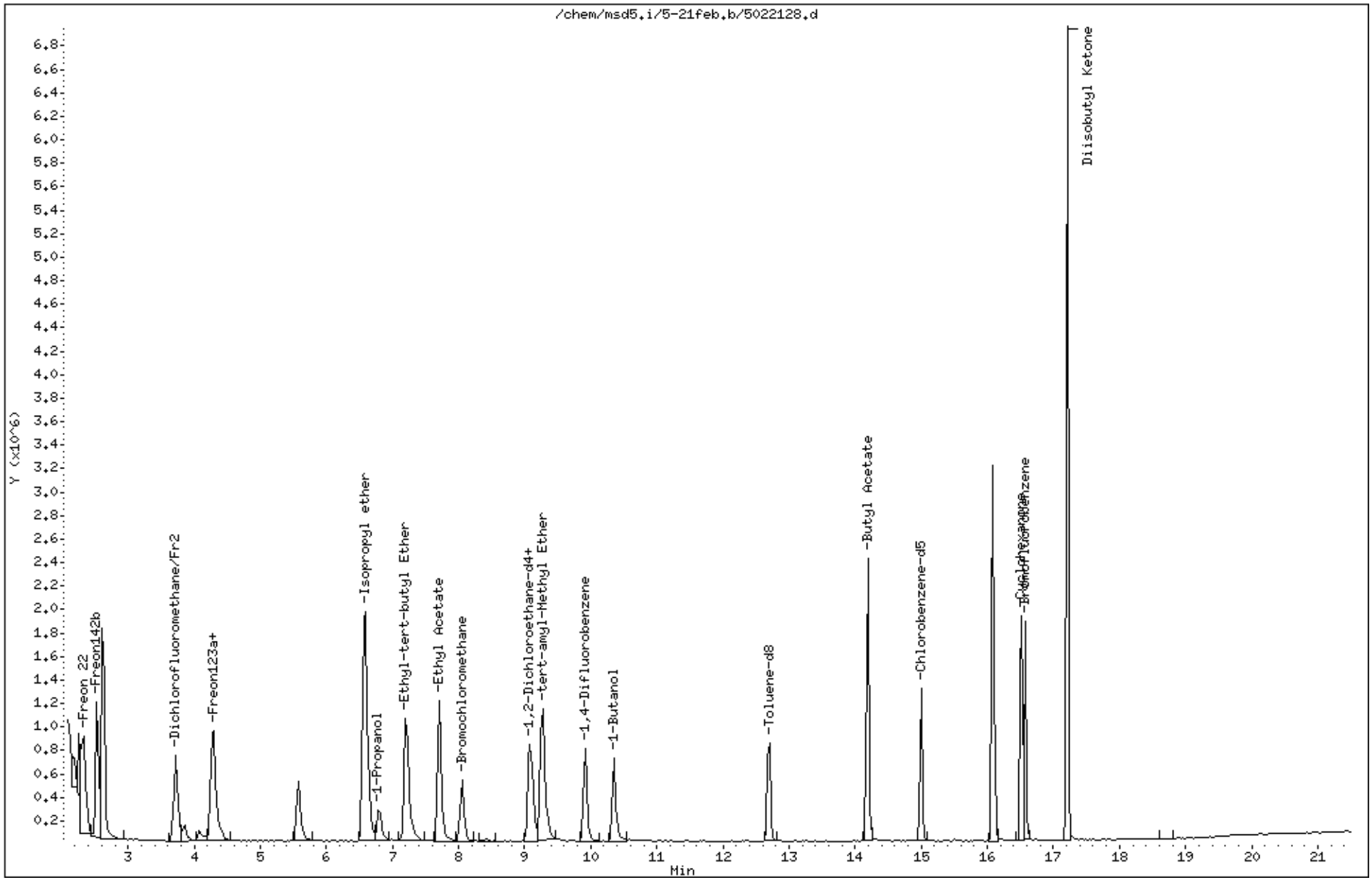
0141

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

				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		
9.082	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

Report Date: 22-Feb-2008 13:17

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

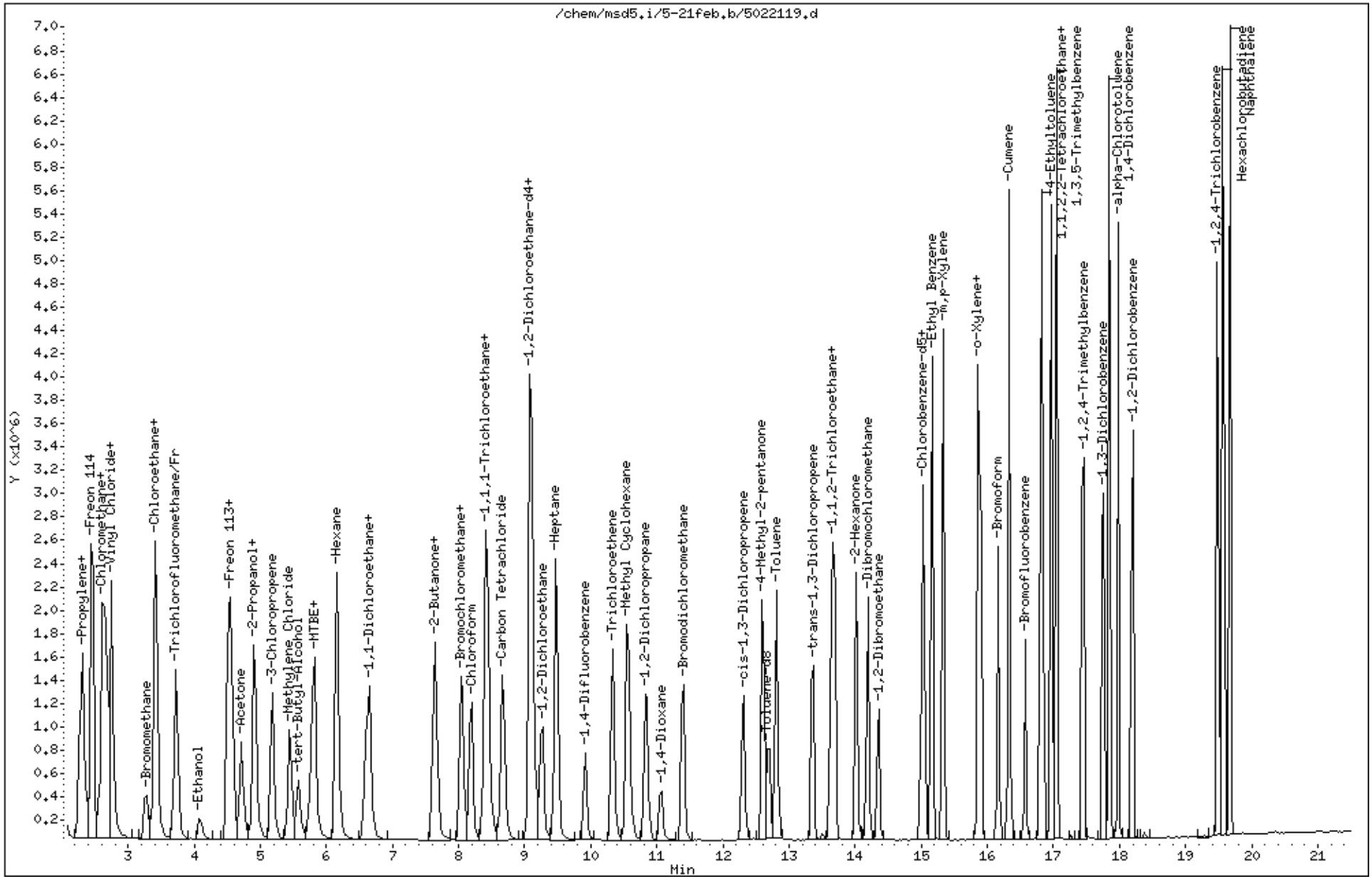
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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.

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

Report Date: 22-Feb-2008 13:17

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.

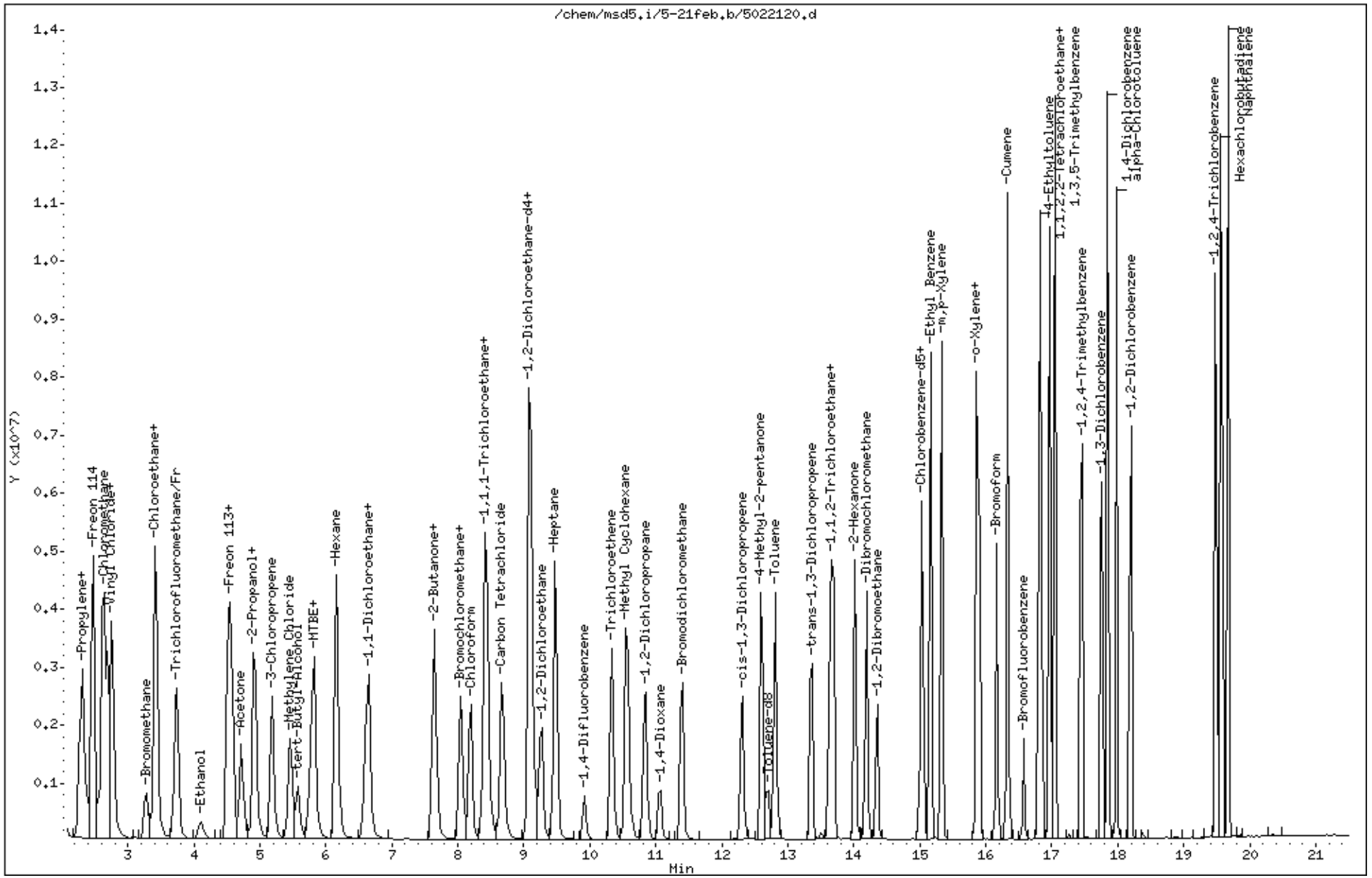
0161

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.

Data File: /chem/msd5.i/5-21feb.b/5022129.d

Date : 22-FEB-2008 12:09

Client ID: Level 7

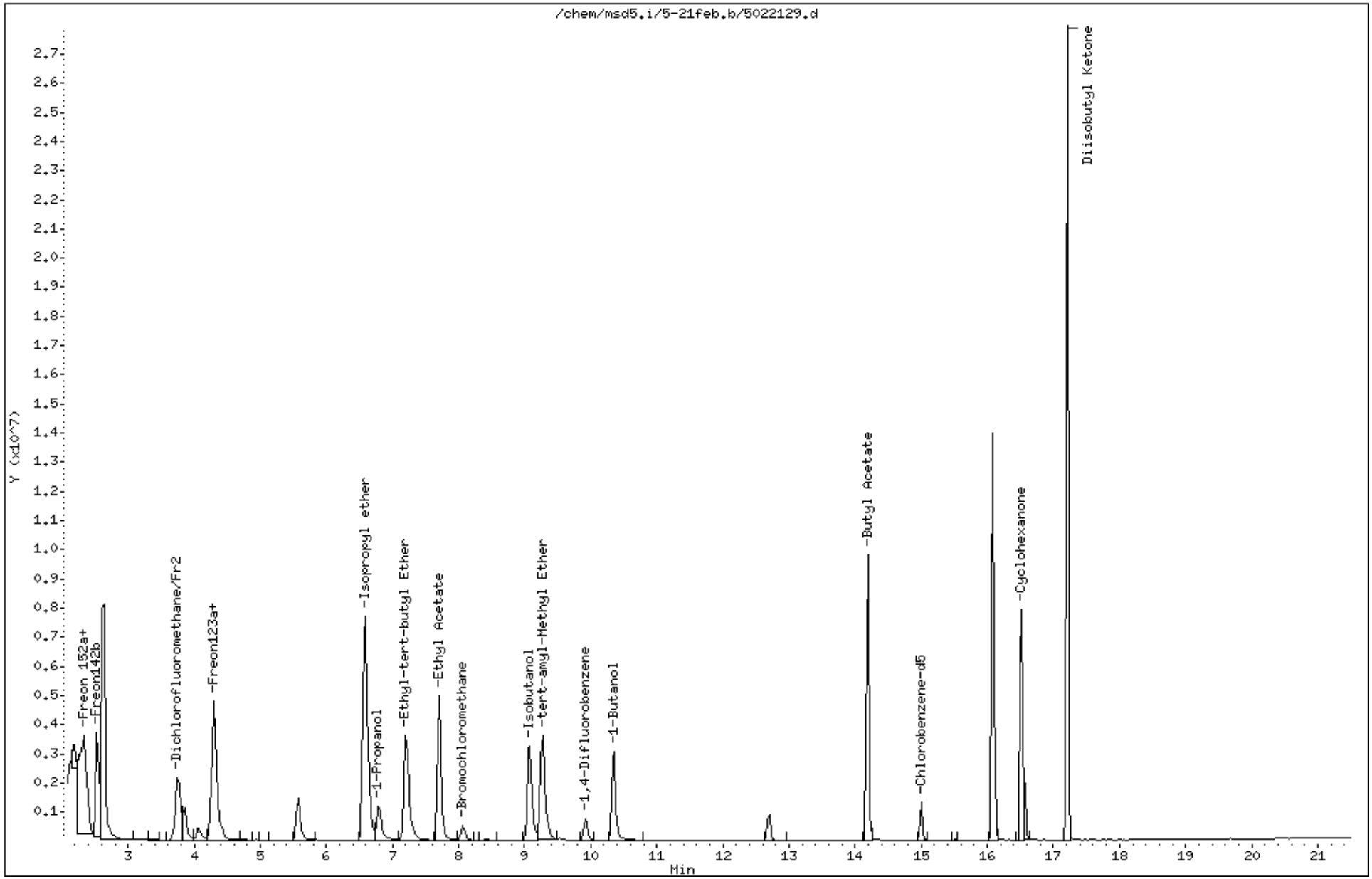
Sample Info: 200mL #1576-299

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/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

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
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

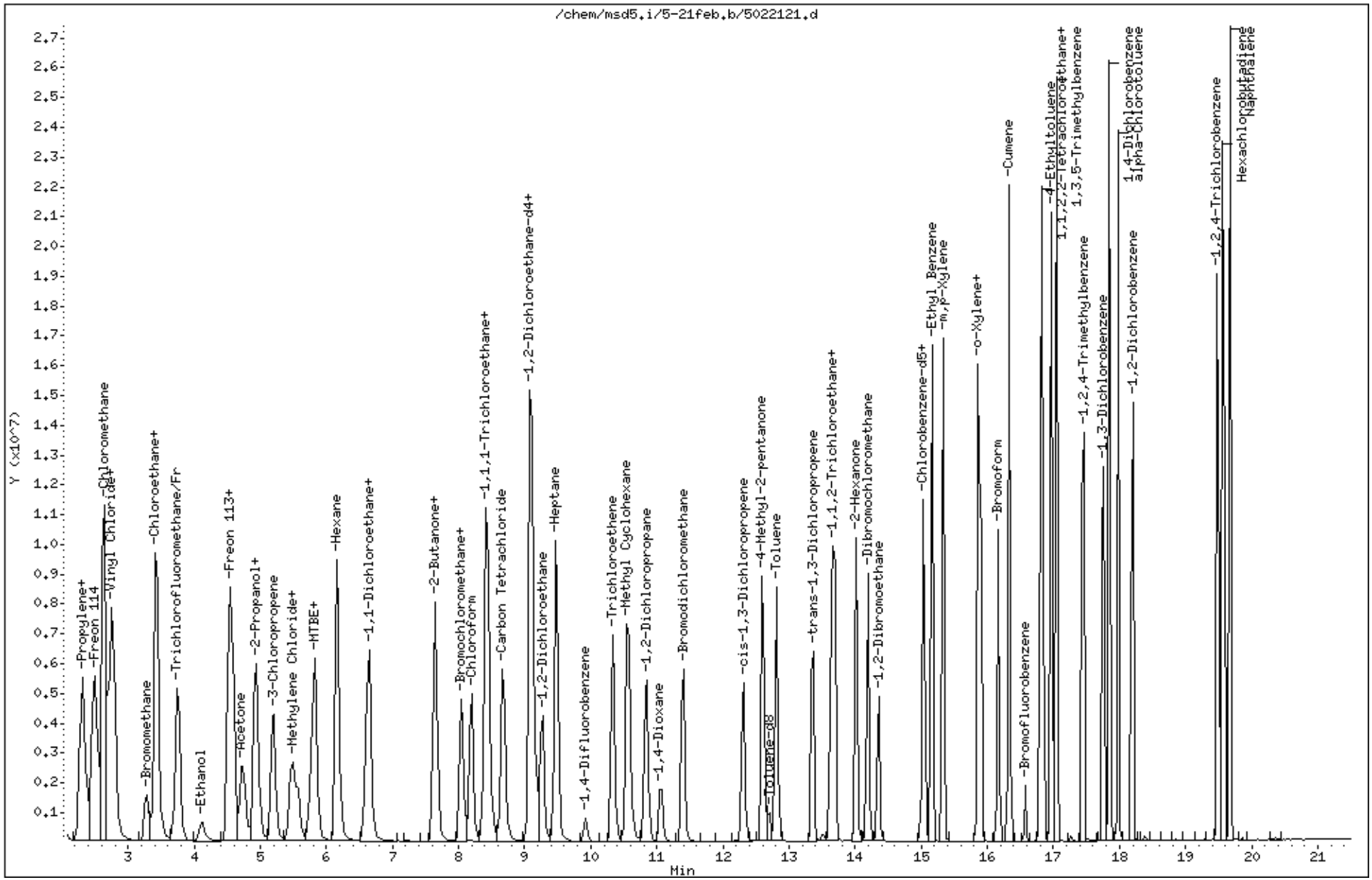
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



@ Air Toxics Ltd.

MSD-5

Logbook #: 1370

0177

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	38.91
75	30.0 – 60.0% of mass 95	50.45
95	Base peak, 100.00% relative abundance	100.
96	5.0 – 9.0% of mass 95	6.74
173	Less than 2.0% of mass 174	(0.94)[1]
174	Greater than 50.0% of mass 95	59.83
175	5.0 – 9.0% of mass 174	(8.05)[1]
176	Grater than 95.0% but less than 101.0% of mass 174	(97.55)[1]
177	5.0 – 9.0% of mass 176	(6.35)[2]

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

BFB Injection Date: 3-28-06
BFB Injection Time: 18:44
BFB File ID: 5032802
Tekmar Purge Flow: —
Vacuum: 4.4×10^{-6}

IS/S Std.#:	1360-291	Exp. Date: 6-28-06
BCM	198056	
1,4-DFB	922707	
CB-d5	858121	

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

Verify 176/174 m/z Ratio: 88247/90464 0 × 100% = 97.55

NOAH Cart #: — **File #:** —

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\text{TSS } 3\text{-}28\text{-}06)}{(\quad)} =$ ____

File ID:	
Compound:	
Initials:	

Reported Result NA

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	5032801	BFB Tune	#843-2483	50psi	2µl	1.0	TJS	3-28-06	18:35	TJS	
2	✓	02	BFB Tune			1				18:44		
3	✓	03	ICAL System Blank	17673	—	200mL				19:10		
4	✓	04	ICAL #1360-293 100 ppbv →		0.2 ppbv	0.2mL	1.0			19:34		
5	✓	05			0.5 ppbv	0.5mL				19:58		
6	✓	06			2 ppbv	2mL				20:22		
7	✓	07			25 ppbv	25mL				20:46		
8	✓	08			50 ppbv	50mL				21:09		
9	✓	09			100 ppbv	100mL				21:33		
10	✓	10			200 ppbv	200mL				22:02		

TJS
Signature

3-29-06
Date

11	X	5032811	System Blank	1373	—	200mL	10	TJ3	3-2806	22:30	TJ3	
12	✓	12			—					22:59		
13	✓	13	LCS #1373-148 200ppbv →		50 ppbv	50mL				10:24		
14	✓	14	LCS #1443-4 200 ppbv →		50 ppbv	50mL				10:57		
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

3/29/04

Comments: Flow Cont: see 3/14/04 pg 288

Signature

3/29/04
Date

Initial Calibration Narrative

An initial calibration was analyzed on MSD-5 on March 28, 2006.

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

Target compounds in the Second Source Stock Standard that were declared by the vendor to have a > 10% discrepancy in the certified value compared to the stated value have been corrected for use in the Initial Calibration Second Source Verification (LCS).

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803479-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/31/08 08:10 AM**	

Compound	%Recovery
Freon 12	85
Freon 114	116
Vinyl Chloride	119
Bromomethane	123
Chloroethane	119
Freon 11	100
1,1-Dichloroethene	96
Freon 113	112
Methylene Chloride	99
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	94
Chloroform	91
1,1,1-Trichloroethane	92
Carbon Tetrachloride	85
Benzene	109
1,2-Dichloroethane	90
Trichloroethene	95
1,2-Dichloropropane	89
cis-1,3-Dichloropropene	86
Toluene	96
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	113
Tetrachloroethene	107
1,2-Dibromoethane (EDB)	108
Chlorobenzene	101
Ethyl Benzene	107
m,p-Xylene	102
o-Xylene	104
Styrene	106
1,1,2,2-Tetrachloroethane	109
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	106
1,3-Butadiene	108
Hexane	96
Cyclohexane	92

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803479-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/31/08 08:10 AM**	

Compound	%Recovery
Heptane	102
Bromodichloromethane	89
Dibromochloromethane	104
Cumene	99
Propylbenzene	104
Chloromethane	96
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	95
Acetone	105
Carbon Disulfide	122
2-Propanol	92
trans-1,2-Dichloroethene	105
2-Butanone (Methyl Ethyl Ketone)	106
Tetrahydrofuran	134 Q
1,4-Dioxane	97
4-Methyl-2-pentanone	91
2-Hexanone	98
Bromoform	105
4-Ethyltoluene	102
Ethanol	102
Methyl tert-butyl ether	136 Q
3-Chloropropene	110
2,2,4-Trimethylpentane	89
Naphthalene	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 31-MAR-2008 08:10
Lab File ID: 5033102.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: /chem/msd5.i/5-31mar.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 84 1,2-Dichloroethane-d4	1.89977	1.55224	0.010	18.29318	30.00000	Averaged	
$ 107 Toluene-d8	0.91671	0.82899	0.010	9.56973	30.00000	Averaged	
$ 138 Bromofluorobenzene	0.65041	0.62094	0.010	4.53114	30.00000	Averaged	
6 Propylene	2.09538	2.06092	0.010	1.64420	30.00000	Averaged	
8 Dichlorodifluoromethane/Fr1	3.92035	3.32819	0.010	15.10471	30.00000	Averaged	
9 Freon 114	2.91268	3.38203	0.010	-16.11410	30.00000	Averaged	
10 Chloromethane	2.82110	2.71562	0.010	3.73899	30.00000	Averaged	
13 Vinyl Chloride	2.02971	2.40845	0.010	-18.65950	30.00000	Averaged	
12 1,3-Butadiene	2.12753	2.30574	0.010	-8.37612	30.00000	Averaged	
15 Bromomethane	1.11721	1.37615	0.010	-23.17770	30.00000	Averaged	
19 Chloroethane	0.99600	1.18972	0.010	-19.45019	30.00000	Averaged	
20 Trichlorofluoromethane/Fr11	4.35470	4.37352	0.010	-0.43224	30.00000	Averaged	
26 Ethanol	0.88763	0.90836	0.010	-2.33471	30.00000	Averaged	
30 Freon 113	2.21900	2.48763	0.010	-12.10563	30.00000	Averaged	
31 1,1-Dichloroethene	3.07465	2.95280	0.010	3.96296	30.00000	Averaged	
32 Acetone	1.00622	1.05891	0.010	-5.23658	30.00000	Averaged	
36 2-Propanol	4.27265	3.93825	0.010	7.82657	30.00000	Averaged	
35 Carbon Disulfide	3.68230	4.47573	0.010	-21.54700	30.00000	Averaged	
38 3-Chloropropene	0.66523	0.73055	0.010	-9.81843	30.00000	Averaged	
43 Methylene Chloride	2.68674	2.65583	0.010	1.15044	30.00000	Averaged	
46 MTBE	1.83835	2.50877	0.010	-36.46869	30.00000	Averaged	<-
47 trans-1,2-Dichloroethene	1.49243	1.57429	0.010	-5.48487	30.00000	Averaged	
51 Hexane	3.59847	3.44900	0.010	4.15366	30.00000	Averaged	
56 Vinyl Acetate	0.34044	0.34926	0.010	-2.58982	30.00000	Averaged	
55 1,1-Dichloroethane	3.09721	2.96807	0.010	4.16951	30.00000	Averaged	
67 2-Butanone	0.57647	0.61238	0.010	-6.23042	30.00000	Averaged	
66 cis-1,2-Dichloroethene	2.31454	2.18359	0.010	5.65781	30.00000	Averaged	
70 Tetrahydrofuran	2.87426	3.84686	0.010	-33.83828	30.00000	Averaged	<-
72 Chloroform	2.75838	2.50301	0.010	9.25808	30.00000	Averaged	
75 1,1,1-Trichloroethane	2.92864	2.68051	0.010	8.47255	30.00000	Averaged	
74 Cyclohexane	1.74267	1.61131	0.010	7.53790	30.00000	Averaged	
77 Carbon Tetrachloride	3.05656	2.60132	0.010	14.89395	30.00000	Averaged	
80 2,2,4-Trimethylpentane	9.47652	8.41139	0.010	11.23973	30.00000	Averaged	
81 Benzene	0.94266	1.02478	0.010	-8.71164	30.00000	Averaged	
85 1,2-Dichloroethane	0.71411	0.64536	0.010	9.62688	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 31-MAR-2008 08:10
Lab File ID: 5033102.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: /chem/msd5.i/5-31mar.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.12433	0.12621	0.010	-1.51574	30.00000	Averaged
93 Trichloroethene	0.44604	0.42197	0.010	5.39808	30.00000	Averaged
98 1,2-Dichloropropane	0.41676	0.37299	0.010	10.50187	30.00000	Averaged
99 1,4-Dioxane	0.21631	0.20903	0.010	3.36801	30.00000	Averaged
100 Bromodichloromethane	0.73627	0.65673	0.010	10.80402	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.48492	0.41653	0.010	14.10266	30.00000	Averaged
106 4-Methyl-2-pentanone	0.38570	0.35103	0.010	8.98989	30.00000	Averaged
108 Toluene	0.98720	0.95171	0.010	3.59582	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.76759	0.76086	0.010	0.87735	30.00000	Averaged
114 1,1,2-Trichloroethane	0.48861	0.55209	0.010	-12.99232	30.00000	Averaged
116 Tetrachloroethene	0.67751	0.72406	0.010	-6.87012	30.00000	Averaged
119 2-Hexanone	0.75003	0.73672	0.010	1.77517	30.00000	Averaged
120 Dibromochloromethane	0.96903	1.01204	0.010	-4.43832	30.00000	Averaged
122 1,2-Dibromoethane	0.82483	0.88753	0.010	-7.60139	30.00000	Averaged
126 Chlorobenzene	1.25246	1.26411	0.010	-0.93058	30.00000	Averaged
128 Ethyl Benzene	0.65473	0.70042	0.010	-6.97824	30.00000	Averaged
130 m,p-Xylene	0.84383	0.86436	0.010	-2.43378	30.00000	Averaged
132 o-Xylene	0.76299	0.79389	0.010	-4.05054	30.00000	Averaged
133 Styrene	1.21011	1.28694	0.010	-6.34899	30.00000	Averaged
134 Bromoform	0.81340	0.85729	0.010	-5.39533	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.00855	1.09985	0.010	-9.05247	30.00000	Averaged
144 4-Ethyltoluene	2.54221	2.60581	0.010	-2.50190	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.34583	2.38295	0.010	-1.58269	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.98540	2.01061	0.010	-1.26976	30.00000	Averaged
155 1,3-Dichlorobenzene	1.26383	1.40573	0.010	-11.22797	30.00000	Averaged
156 1,4-Dichlorobenzene	1.53762	1.65015	0.010	-7.31810	30.00000	Averaged
157 alpha-Chlorotoluene	2.08844	2.47824	0.010	-18.66447	30.00000	Averaged
159 1,2-Dichlorobenzene	1.31055	1.39382	0.010	-6.35358	30.00000	Averaged
163 1,2,4-Trichlorobenzene	1.00331	0.99236	0.010	1.09153	30.00000	Averaged
164 Hexachlorobutadiene	0.89670	0.85034	0.010	5.16974	30.00000	Averaged
142 Propylbenzene	2.69717	2.80647	0.010	-4.05256	30.00000	Averaged
136 Cumene	2.53467	2.51904	0.010	0.61655	30.00000	Averaged
165 Naphthalene	3.12351	3.10503	0.010	0.59150	30.00000	Averaged
37 tert-Butyl-Alcohol	1.83431	1.81205	0.010	1.21354	40.00000	Averaged
11 Butane	0.58446	0.58912	0.010	-0.79663	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 31-MAR-2008 08:10
Lab File ID: 5033102.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: /chem/msd5.i/5-31mar.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
17 Isopentane	3.70716	3.75301	0.010	-1.23670	30.00000	Averaged
94 Methyl Cyclohexane	0.58908	0.56430	0.010	4.20733	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033102.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 31-MAR-2008 08:10
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-273
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 31-Mar-2008 09:28 sscott 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

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	323835	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	253573			48.30- 108.30	78.30
8.059	8.059 (1.000)	49	699792			186.10- 246.10	216.10
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1073233	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	174245			0.00- 46.24	16.24
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	666140	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	378684			0.00- 30.00	56.85
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	502670	25.0000	20.427	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	270094			19.51- 79.51	53.73
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	889695	25.0000	22.608	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	94375			0.00- 41.02	10.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	627165			39.73- 99.73	70.49
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	413633	25.0000	23.867	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	591814			113.08- 173.08	143.08
16.575	16.575 (1.105)	176	395713			65.67- 125.67	95.67
6 Propylene					CAS #: 115-07-1		
2.308	2.308 (0.285)	41	1334799	50.0000	49.178	80.00- 120.00	100.00
2.308	2.308 (0.285)	42	876107			0.00- 30.00	65.64
2.308	2.308 (0.285)	39	851126			0.00- 30.00	63.76
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.292)	85	2155570	50.0000	42.448	80.00- 120.00	100.00
2.363	2.363 (0.292)	87	705940			0.00- 30.00	32.75
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.306)	135	2190442	50.0000	58.057	80.00- 120.00	100.00
2.474	2.474 (0.306)	137	712202			2.51- 62.51	32.51
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.323)	50	1758826	50.0000	48.130	80.00- 120.00	100.00
2.612	2.612 (0.323)	52	488987			0.00- 30.00	27.80
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.347)	62	1559878	50.0000	59.330	80.00- 120.00	100.00
2.806	2.806 (0.347)	64	435085			0.00- 30.00	27.89
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	1493357	50.0000	54.188	80.00- 120.00	100.00
2.778	2.778 (0.344)	39	1669488			0.00- 30.00	111.79
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.408)	94	891290	50.0000	61.589	80.00- 120.00	100.00
3.303	3.303 (0.408)	96	854259			65.85- 125.85	95.85
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.426)	64	770546	50.0000	59.725	80.00- 120.00	100.00
3.442	3.442 (0.426)	49	242386			0.00- 30.00	31.46
3.442	3.442 (0.426)	66	230447			0.00- 30.00	29.91
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.463)	101	2832599	50.0000	50.216	80.00- 120.00	100.00
3.746	3.746 (0.463)	103	1829333			34.58- 94.58	64.58

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 (0.508)	45	588316	50.0000	51.167	80.00- 120.00	100.00
4.105	4.105 (0.508)	43	126247			0.00- 30.00	21.46
4.133	4.133 (0.511)	46	239923			0.00- 30.00	40.78
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.562)	151	1611162	50.0000	56.053	80.00- 120.00	100.00
4.548	4.548 (0.562)	153	1009571			32.66- 92.66	62.66
4.548	4.548 (0.562)	101	1977270			92.72- 152.72	122.72
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.569)	61	1912440	50.0000	48.018	80.00- 120.00	100.00
4.603	4.603 (0.569)	96	926884			18.47- 78.47	48.47
4.603	4.603 (0.569)	98	605078			1.64- 61.64	31.64
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.586)	58	685822	50.0000	52.618	80.00- 120.00	100.00
4.741	4.741 (0.586)	43	2358538			0.00- 30.00	343.90
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.610)	45	2550687	50.0000	46.087	80.00- 120.00	100.00
4.935	4.935 (0.610)	43	627064			0.00- 30.00	24.58
4.962	4.962 (0.614)	59	85549			0.00- 30.00	3.35
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.610)	76	2898793	50.0000	60.773	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.644)	76	473154	50.0000	54.909	80.00- 120.00	100.00
5.211	5.211 (0.644)	41	2090361			0.00- 30.00	441.79
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	1720100	50.0000	49.425	80.00- 120.00	100.00
5.460	5.460 (0.675)	84	808631			17.01- 77.01	47.01
5.460	5.460 (0.675)	51	512339			0.00- 30.00	29.79
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.716)	73	1624854	50.0000	68.234	80.00- 120.00	100.00
5.792	5.792 (0.716)	57	540813			3.28- 63.28	33.28
5.792	5.792 (0.716)	41	660520			0.00- 30.00	40.65
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.723)	96	1019620	50.0000	52.742	80.00- 120.00	100.00
5.847	5.847 (0.723)	61	1873142			153.71- 213.71	183.71
5.847	5.847 (0.723)	98	654987			0.00- 30.00	64.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	2233814	50.0000	47.923	80.00- 120.00	100.00
6.179	6.179 (0.764)	43	1691168			0.00- 30.00	75.71
6.179	6.179 (0.764)	86	280896			0.00- 30.00	12.57
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.826)	86	226204	50.0000	51.295	80.00- 120.00	100.00
6.677	6.677 (0.826)	43	3570579			0.00- 30.00	1578.48
6.677	6.677 (0.826)	42	287692			0.00- 30.00	127.18
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.819)	63	1922332	50.0000	47.915	80.00- 120.00	100.00
6.621	6.621 (0.819)	65	589384			0.66- 60.66	30.66
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.949)	72	396622	50.0000	53.115	80.00- 120.00	100.00
7.672	7.672 (0.949)	43	2701891			651.23- 711.23	681.23
7.672	7.672 (0.949)	57	183798			0.00- 30.00	46.34
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.945)	61	1414243	50.0000	47.171	80.00- 120.00	100.00
7.644	7.644 (0.945)	96	853057			30.32- 90.32	60.32
7.644	7.644 (0.945)	98	539422			8.14- 68.14	38.14
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (0.997)	42	2491494	50.0000	66.919	80.00- 120.00	100.00
8.059	8.059 (0.997)	71	516828			0.00- 50.74	20.74
8.059	8.059 (0.997)	72	561875			0.00- 30.00	22.55
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	1621125	50.0000	45.371	80.00- 120.00	100.00
8.197	8.197 (1.014)	85	1031615			33.64- 93.64	63.64
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.044)	97	1736087	50.0000	45.764	80.00- 120.00	100.00
8.474	8.474 (1.048)	99	1106260			33.72- 93.72	63.72
74 Cyclohexane					CAS #: 110-82-7		
8.446	8.446 (1.044)	84	1043594	50.0000	46.231	80.00- 120.00	100.00
8.446	8.446 (1.044)	56	1921401			154.11- 214.11	184.11
8.419	8.419 (1.041)	41	1155653			80.74- 140.74	110.74
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.075)	119	1684797	50.0000	42.553	80.00- 120.00	100.00
8.695	8.695 (1.075)	117	1739867			73.27- 133.27	103.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.127)	57	5447802	50.0000	44.380	80.00- 120.00	100.00
9.110	9.110 (1.127)	56	1810226			0.00- 30.00	33.23
9.110	9.110 (1.127)	41	1559386			0.00- 30.00	28.62
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	2199662	50.0000	54.356	80.00- 120.00	100.00
9.110	9.110 (0.917)	77	505162			0.00- 30.00	22.97
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.933)	62	1385250	50.0000	45.186	80.00- 120.00	100.00
9.276	9.276 (0.933)	64	409895			0.00- 30.00	29.59
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	270909	50.0000	50.758	80.00- 120.00	100.00
9.497	9.497 (0.955)	43	2345389			0.00- 30.00	865.75
9.497	9.497 (0.955)	71	733040			0.00- 30.00	270.59
93 Trichloroethene					CAS #: 79-01-6		
10.354	10.354 (1.042)	95	905737	50.0000	47.301	80.00- 120.00	100.00
10.354	10.354 (1.042)	130	914840			71.01- 131.01	101.01
10.354	10.354 (1.042)	97	580945			34.14- 94.14	64.14
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	800619	50.0000	44.749	80.00- 120.00	100.00
10.852	10.852 (1.092)	62	596803			44.54- 104.54	74.54
10.852	10.852 (1.092)	41	730652			61.26- 121.26	91.26
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	448668	50.0000	48.316	80.00- 120.00	100.00
11.073	11.073 (1.114)	58	445872			69.38- 129.38	99.38
11.073	11.073 (1.114)	57	153983			0.00- 30.00	34.32
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	1409640	50.0000	44.598	80.00- 120.00	100.00
11.405	11.405 (1.147)	85	916303			35.00- 95.00	65.00
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	894066	50.0000	42.949	80.00- 120.00	100.00
12.317	12.317 (1.239)	77	279577			1.27- 61.27	31.27
12.317	12.317 (1.239)	39	810499			60.65- 120.65	90.65
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.270)	58	753471	50.0000	45.505	80.00- 120.00	100.00
12.594	12.594 (1.267)	43	2354689			0.00- 30.00	312.51
12.621	12.621 (1.270)	85	231772			0.00- 30.00	30.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	2042803	50.0000	48.202	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	1195487			28.52- 88.52	58.52
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1013676	50.0000	49.561	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	320951			1.66- 61.66	31.66
13.368	13.368 (0.891)	39	810784			49.98- 109.98	79.98
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	735537	50.0000	56.496	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	433685			28.96- 88.96	58.96
13.644	13.644 (0.910)	83	575359			48.22- 108.22	78.22
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	964645	50.0000	53.435	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	793177			52.22- 112.22	82.22
13.700	13.700 (0.913)	131	760221			48.81- 108.81	78.81
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	981516	50.0000	49.112	80.00- 120.00	100.00
14.031	14.031 (0.935)	43	2284065			202.71- 262.71	232.71
14.031	14.031 (0.935)	100	152265			0.00- 30.00	15.51
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1348317	50.0000	52.219	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1032106			0.00- 30.00	76.55
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1182442	50.0000	53.801	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1125040			65.15- 125.15	95.15
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1684151	50.0000	50.465	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	536863			1.88- 61.88	31.88
15.027	15.027 (1.002)	77	1002769			29.54- 89.54	59.54
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	933157	50.0000	53.489	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2962504			0.00- 30.00	317.47
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1151576	50.0000	51.217	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2382143			0.00- 30.00	206.86
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1057689	50.0000	52.025	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	2354990			192.65- 252.65	222.65
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	1714569	50.0000	53.174	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	908523			22.99- 82.99	52.99
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1142146	50.0000	52.698	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	596830			22.26- 82.26	52.26
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1465303	50.0000	54.526	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	944070			34.43- 94.43	64.43
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3471673	50.0000	51.251	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	995506			0.00- 58.68	28.68
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3174761	50.0000	50.791	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1484369			0.00- 30.00	46.76
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2678702	50.0000	50.635	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1197341			14.70- 74.70	44.70
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1872831	50.0000	55.614	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1174724			0.00- 30.00	62.72
17.764	17.764 (1.184)	111	761421			0.00- 30.00	40.66
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2198457	50.0000	53.659	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1372088			0.00- 30.00	62.41
17.847	17.847 (1.190)	111	961695			0.00- 30.00	43.74
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3301708	50.0000	59.332	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	673847			0.00- 30.00	20.41
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1856957	50.0000	53.177	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1208276			35.07- 95.07	65.07
18.206	18.206 (1.214)	111	767063			11.31- 71.31	41.31

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	1322101	50.0000	49.454	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1273289			66.31- 126.31	96.31
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1132897	50.0000	47.415	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	706985			32.41- 92.41	62.41
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3739006	50.0000	52.026	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	892278			0.00- 30.00	23.86
16.852	16.852 (1.123)	105	140673			0.00- 30.00	3.76
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3356072	50.0000	49.692	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	879790			0.00- 30.00	26.21
16.326	16.326 (1.088)	51	517145			0.00- 30.00	15.41
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4136771	50.0000	49.704	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	523104			0.00- 30.00	12.65
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.692)	59	1173613	50.0000	49.393	80.00- 120.00	100.00
5.598	5.598 (0.692)	41	371679			0.00- 30.00	31.67
5.598	5.598 (0.692)	57	133645			0.00- 30.00	11.39
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.333)	58	381553	50.0000	50.398	80.00- 120.00	100.00
2.695	2.695 (0.333)	43	3111796			0.00- 30.00	815.56
17 Isopentane					CAS #: 78-78-4		
3.442	3.442 (0.426)	43	2430710	50.0000	50.618	80.00- 120.00	100.00
3.442	3.442 (0.426)	57	1478274			0.00- 30.00	60.82
3.442	3.442 (0.426)	72	122034			0.00- 30.00	5.02
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	1211250	50.0000	47.896	80.00- 120.00	100.00
10.575	10.575 (1.064)	98	590680			0.00- 30.00	48.77
10.575	10.575 (1.064)	55	1547425			0.00- 30.00	127.75

Report Date: 31-Mar-2008 09:28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033102.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 31-MAR-2008
Calibration Time: 09:22
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	240436	144262	336610	323835	34.69
92 1,4-Difluorobenze	829533	497720	1161346	1073233	29.38
125 Chlorobenzene-d5	557420	334452	780388	666140	19.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.35
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd5.i/5-31mar.b/5033102.d

Date : 31-MAR-2008 08:10

Client ID: CCV-1

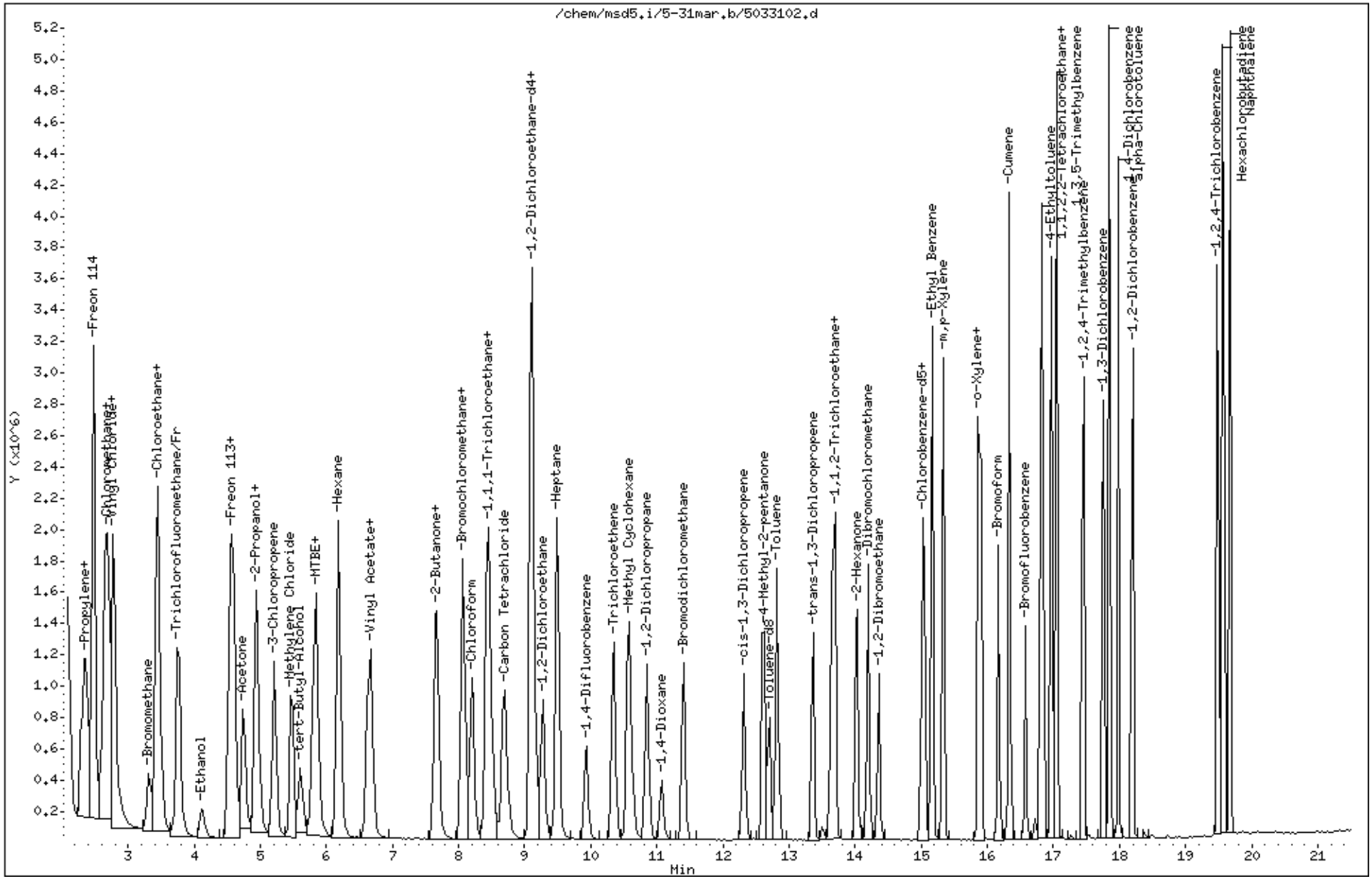
Sample Info: 50mL #1576-273

Column phase: RTx-624

Instrument: msd5.i

Operator: ct

Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803479-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/31/08 08:43 AM**	

Compound	%Recovery
Freon 12	106
Freon 114	120
Vinyl Chloride	120
Bromomethane	134 Q
Chloroethane	120
Freon 11	104
1,1-Dichloroethene	115
Freon 113	128
Methylene Chloride	112
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	105
Chloroform	103
1,1,1-Trichloroethane	103
Carbon Tetrachloride	97
Benzene	123
1,2-Dichloroethane	101
Trichloroethene	106
1,2-Dichloropropane	105
cis-1,3-Dichloropropene	102
Toluene	121
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	117
Tetrachloroethene	113
1,2-Dibromoethane (EDB)	113
Chlorobenzene	111
Ethyl Benzene	112
m,p-Xylene	110
o-Xylene	115
Styrene	111
1,1,2,2-Tetrachloroethane	121
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	118
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	130
1,2-Dichlorobenzene	115
1,3-Butadiene	112
Hexane	106
Cyclohexane	104

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803479-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5033103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/31/08 08:43 AM**	

Compound	%Recovery
Heptane	116
Bromodichloromethane	105
Dibromochloromethane	109
Cumene	113
Propylbenzene	115
Chloromethane	105
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	101
Acetone	116
Carbon Disulfide	128
2-Propanol	97
trans-1,2-Dichloroethene	115
2-Butanone (Methyl Ethyl Ketone)	113
Tetrahydrofuran	94
1,4-Dioxane	104
4-Methyl-2-pentanone	103
2-Hexanone	101
Bromoform	117
4-Ethyltoluene	115
Ethanol	89
Methyl tert-butyl ether	134
3-Chloropropene	119
2,2,4-Trimethylpentane	101
Naphthalene	128

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Report Date: 31-Mar-2008 08:48

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-31mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 50ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	52.898	105.80	70-130
9 Freon 114	50.000	60.137	120.27	70-130
10 Chloromethane	50.000	52.698	105.40	70-130
13 Vinyl Chloride	50.000	60.172	120.34	70-130
12 1,3-Butadiene	50.000	55.993	111.99	60-140
15 Bromomethane	50.000	66.862	133.72*	70-130
19 Chloroethane	50.000	60.160	120.32	70-130
20 Trichlorofluoromet	50.000	52.181	104.36	70-130
26 Ethanol	50.000	44.604	89.21	60-140
30 Freon 113	50.000	63.770	127.54	70-130
31 1,1-Dichloroethene	50.000	57.307	114.61	70-130
35 Carbon Disulfide	50.000	64.181	128.36	60-140
32 Acetone	50.000	57.902	115.80	60-140
36 2-Propanol	50.000	48.380	96.76	60-140
38 3-Chloropropene	50.000	59.598	119.20	60-140
43 Methylene Chloride	50.000	56.027	112.05	70-130
46 MTBE	50.000	66.979	133.96	60-140
47 trans-1,2-Dichloro	50.000	57.639	115.28	60-140
51 Hexane	50.000	52.992	105.98	60-140
55 1,1-Dichloroethane	50.000	53.106	106.21	70-130
66 cis-1,2-Dichloroet	50.000	52.636	105.27	70-130
67 2-Butanone	50.000	56.602	113.20	60-140
70 Tetrahydrofuran	50.000	47.022	94.04	60-140
72 Chloroform	50.000	51.460	102.92	70-130
74 Cyclohexane	50.000	51.796	103.59	60-140
75 1,1,1-Trichloroeth	50.000	51.726	103.45	70-130
56 Vinyl Acetate	50.000	53.764	107.53	60-140
77 Carbon Tetrachlori	50.000	48.306	96.61	70-130
80 2,2,4-Trimethylpen	50.000	50.577	101.15	60-140
81 Benzene	50.000	61.323	122.65	70-130
85 1,2-Dichloroethane	50.000	50.542	101.08	70-130
90 Heptane	50.000	58.158	116.32	60-140
93 Trichloroethene	50.000	53.065	106.13	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	52.397	104.79	70-130
99 1,4-Dioxane	50.000	52.297	104.59	60-140
100 Bromodichlorometha	50.000	52.425	104.85	60-140
103 cis-1,3-Dichloropr	50.000	51.253	102.51	70-130
106 4-Methyl-2-pentano	50.000	51.472	102.94	60-140
108 Toluene	50.000	60.482	120.96	70-130
113 trans-1,3-Dichloro	50.000	52.259	104.52	70-130
114 1,1,2-Trichloroeth	50.000	58.709	117.42	70-130
116 Tetrachloroethene	50.000	56.365	112.73	70-130
119 2-Hexanone	50.000	50.615	101.23	60-140
120 Dibromochlorometha	50.000	54.332	108.66	60-140
122 1,2-Dibromoethane	50.000	56.742	113.48	70-130
126 Chlorobenzene	50.000	55.534	111.07	70-130
128 Ethyl Benzene	50.000	55.811	111.62	70-130
130 m,p-Xylene	50.000	55.041	110.08	70-130
132 o-Xylene	50.000	57.676	115.35	70-130
133 Styrene	50.000	55.423	110.85	70-130
134 Bromoform	50.000	58.338	116.68	60-140
136 Cumene	50.000	56.549	113.10	60-140
141 1,1,2,2-Tetrachlor	50.000	60.314	120.63	70-130
142 Propylbenzene	50.000	57.471	114.94	60-140
144 4-Ethyltoluene	50.000	57.614	115.23	60-140
147 1,3,5-Trimethylben	50.000	54.616	109.23	70-130
152 1,2,4-Trimethylben	50.000	53.766	107.53	70-130
155 1,3-Dichlorobenzen	50.000	59.249	118.50	70-130
156 1,4-Dichlorobenzen	50.000	58.175	116.35	70-130
157 alpha-Chlorotoluen	50.000	64.889	129.78	70-130
159 1,2-Dichlorobenzen	50.000	57.573	115.15	70-130
163 1,2,4-Trichloroben	50.000	57.504	115.01	70-130
164 Hexachlorobutadien	50.000	50.534	101.07	70-130
6 Propylene	50.000	54.216	108.43	70-130
165 Naphthalene	50.000	63.865	127.73	60-140
11 Butane	50.000	53.849	107.70	70-130
17 Isopentane	50.000	52.925	105.85	70-130
94 Methyl Cyclohexane	50.000	55.016	110.03	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.269	81.08	70-130
$ 107 Toluene-d8	25.000	24.294	97.18	70-130
$ 138 Bromofluorobenzene	25.000	23.431	93.73	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-31mar.b/5033103.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 31-MAR-2008 08:43
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1576-260B
Misc Info : 50ppbv (50ppbv)
Comment :
Method : /var/chem/msd5.i/5-31mar.b/t14q221a.m
Meth Date : 31-Mar-2008 08:19 sscott 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		
8.086	8.087 (1.000)	130	242925	25.0000		80.00- 120.00	100.00
8.086	8.087 (1.000)	128	184694			48.30- 108.30	76.03
8.059	8.059 (1.000)	49	531951			186.10- 246.10	218.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	818024	25.0000		80.00- 120.00	100.00
9.911	9.939 (1.000)	88	131797			0.00- 46.24	16.11
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	568659	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	319174			0.00- 30.00	56.13
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	374174	20.2693	20.269	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	208242			19.51- 79.51	55.65
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	728730	24.2945	24.294	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	75169			0.00- 41.02	10.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	505158			39.73- 99.73	69.32
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	346656	23.4314	23.431	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	499108			113.08- 173.08	143.98
16.575	16.575 (1.105)	176	334237			65.67- 125.67	96.42
6 Propylene					CAS #: 115-07-1		
2.252	2.308 (0.279)	41	1103882	54.2159	54.216	80.00- 120.00	100.00
2.280	2.308 (0.282)	42	762755			0.00- 30.00	69.10
2.280	2.308 (0.282)	39	769261			0.00- 30.00	69.69
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.363 (0.289)	85	2015106	52.8981	52.898	80.00- 120.00	100.00
2.335	2.363 (0.289)	87	641187			0.00- 30.00	31.82
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.306)	135	1702045	60.1374	60.137	80.00- 120.00	100.00
2.474	2.474 (0.306)	137	556413			2.51- 62.51	32.69
10 Chloromethane					CAS #: 74-87-3		
2.640	2.612 (0.326)	50	1444597	52.6981	52.698	80.00- 120.00	100.00
2.640	2.612 (0.326)	52	421463			0.00- 30.00	29.18
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.806 (0.344)	62	1186750	60.1716	60.172	80.00- 120.00	100.00
2.778	2.806 (0.344)	64	351692			0.00- 30.00	29.63
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	1157562	55.9931	55.993	80.00- 120.00	100.00
2.778	2.778 (0.344)	39	1394875			0.00- 30.00	120.50
15 Bromomethane					CAS #: 74-83-9		
3.275	3.303 (0.405)	94	725853	66.8624	66.862	80.00- 120.00	100.00(R)
3.275	3.303 (0.405)	96	687322			65.85- 125.85	94.69
19 Chloroethane					CAS #: 75-00-3		
3.441	3.442 (0.426)	64	582238	60.1602	60.160	80.00- 120.00	100.00
3.441	3.442 (0.426)	49	185373			0.00- 30.00	31.84
3.441	3.442 (0.426)	66	176274			0.00- 30.00	30.28
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.745	3.746 (0.463)	101	2208034	52.1812	52.181	80.00- 120.00	100.00
3.745	3.746 (0.463)	103	1437443			34.58- 94.58	65.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.105 (0.511)	45	384721	44.6045	44.604	80.00- 120.00	100.00
4.105	4.105 (0.508)	43	69683			0.00- 30.00	18.11
4.105	4.133 (0.508)	46	153079			0.00- 30.00	39.79
30 Freon 113					CAS #: 76-13-1		
4.547	4.548 (0.562)	151	1375010	63.7697	63.770	80.00- 120.00	100.00
4.547	4.548 (0.562)	153	892923			32.66- 92.66	64.94
4.520	4.548 (0.559)	101	1775548			92.72- 152.72	129.13
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.569)	61	1712141	57.3074	57.307	80.00- 120.00	100.00
4.603	4.603 (0.569)	96	850646			18.47- 78.47	49.68
4.603	4.603 (0.569)	98	528321			1.64- 61.64	30.86
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.586)	58	566128	57.9016	57.902	80.00- 120.00	100.00
4.741	4.741 (0.586)	43	1882644			0.00- 30.00	332.55
36 2-Propanol					CAS #: 67-63-0		
4.934	4.935 (0.610)	45	2008605	48.3797	48.380	80.00- 120.00	100.00
4.934	4.935 (0.610)	43	474948			0.00- 30.00	23.65
4.934	4.962 (0.610)	59	60387			0.00- 30.00	3.01
35 Carbon Disulfide					CAS #: 75-15-0		
4.934	4.935 (0.610)	76	2296465	64.1811	64.181	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.644)	76	385250	59.5986	59.598	80.00- 120.00	100.00
5.211	5.211 (0.644)	41	1691554			0.00- 30.00	439.08
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	1462708	56.0272	56.027	80.00- 120.00	100.00
5.460	5.460 (0.675)	84	693826			17.01- 77.01	47.43
5.460	5.460 (0.675)	51	444024			0.00- 30.00	30.36
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.713)	73	1196465	66.9791	66.979	80.00- 120.00	100.00
5.764	5.792 (0.713)	57	394328			3.28- 63.28	32.96
5.764	5.792 (0.713)	41	472465			0.00- 30.00	39.49
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.723)	96	835876	57.6387	57.639	80.00- 120.00	100.00
5.847	5.847 (0.723)	61	1505667			153.71- 213.71	180.13
5.847	5.847 (0.723)	98	519296			0.00- 30.00	62.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	1852940	52.9920	52.992	80.00- 120.00	100.00
6.179	6.179 (0.764)	43	1339425			0.00- 30.00	72.29
6.179	6.179 (0.764)	86	229219			0.00- 30.00	12.37
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.677 (0.826)	86	177857	53.7646	53.764	80.00- 120.00	100.00
6.676	6.677 (0.826)	43	2964792			0.00- 30.00	1666.95
6.676	6.677 (0.826)	42	244846			0.00- 30.00	137.66
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.819)	63	1598255	53.1058	53.106	80.00- 120.00	100.00
6.621	6.621 (0.819)	65	491834			0.66- 60.66	30.77
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.949)	72	317060	56.6023	56.602	80.00- 120.00	100.00
7.672	7.672 (0.949)	43	2247659			651.23- 711.23	708.91
7.672	7.672 (0.949)	57	149099			0.00- 30.00	47.03
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.945)	61	1183816	52.6364	52.636	80.00- 120.00	100.00
7.644	7.644 (0.945)	96	717215			30.32- 90.32	60.58
7.644	7.644 (0.945)	98	447419			8.14- 68.14	37.79
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (0.997)	42	1313277	47.0216	47.022	80.00- 120.00	100.00
8.059	8.059 (0.997)	71	275334			0.00- 50.74	20.97
8.059	8.059 (0.997)	72	304067			0.00- 30.00	23.15
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	1379294	51.4599	51.460	80.00- 120.00	100.00
8.197	8.197 (1.014)	85	876305			33.64- 93.64	63.53
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.044)	97	1471994	51.7257	51.726	80.00- 120.00	100.00
8.446	8.474 (1.044)	99	945078			33.72- 93.72	64.20
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.446 (1.041)	84	877083	51.7957	51.796	80.00- 120.00	100.00
8.418	8.446 (1.041)	56	1655206			154.11- 214.11	188.72
8.418	8.419 (1.041)	41	960720			80.74- 140.74	109.54
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.695 (1.072)	119	1434716	48.3058	48.306	80.00- 120.00	100.00
8.695	8.695 (1.075)	117	1461841			73.27- 133.27	101.89

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		
9.109	9.110 (1.127)	57	4657314	50.5770	50.577	80.00- 120.00	100.00
9.109	9.110 (1.127)	56	1574168			0.00- 30.00	33.80
9.082	9.110 (1.123)	41	1337599			0.00- 30.00	28.72
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.914)	78	1891494	61.3229	61.323	80.00- 120.00	100.00
9.082	9.110 (0.914)	77	450937			0.00- 30.00	23.84
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.276 (0.933)	62	1180994	50.5425	50.542	80.00- 120.00	100.00
9.275	9.276 (0.933)	64	349657			0.00- 30.00	29.61
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	236594	58.1585	58.158	80.00- 120.00	100.00
9.469	9.497 (0.953)	43	1982257			0.00- 30.00	837.83
9.497	9.497 (0.955)	71	645754			0.00- 30.00	272.94
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.354 (1.039)	95	774479	53.0646	53.065	80.00- 120.00	100.00
10.326	10.354 (1.039)	130	813658			71.01- 131.01	105.06
10.326	10.354 (1.039)	97	495583			34.14- 94.14	63.99
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.852 (1.092)	63	714534	52.3973	52.397	80.00- 120.00	100.00
10.851	10.852 (1.092)	62	534456			44.54- 104.54	74.80
10.851	10.852 (1.092)	41	622765			61.26- 121.26	87.16
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	370154	52.2969	52.297	80.00- 120.00	100.00
11.073	11.073 (1.114)	58	390608			69.38- 129.38	105.53
11.073	11.073 (1.114)	57	126901			0.00- 30.00	34.28
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.405 (1.147)	83	1262998	52.4249	52.425	80.00- 120.00	100.00
11.404	11.405 (1.147)	85	799170			35.00- 95.00	63.28
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	813226	51.2530	51.253	80.00- 120.00	100.00
12.317	12.317 (1.239)	77	255802			1.27- 61.27	31.46
12.317	12.317 (1.239)	39	707979			60.65- 120.65	87.06
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.621 (1.267)	58	649602	51.4716	51.472	80.00- 120.00	100.00
12.593	12.594 (1.267)	43	2064885			0.00- 30.00	317.87
12.593	12.621 (1.267)	85	215746			0.00- 30.00	33.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	1953699	60.4818	60.482	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	1148203			28.52- 88.52	58.77
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.367	13.368 (0.891)	75	912441	52.2591	52.259	80.00- 120.00	100.00
13.367	13.368 (0.891)	77	286636			1.66- 61.66	31.41
13.367	13.368 (0.891)	39	720672			49.98- 109.98	78.98
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	652491	58.7086	58.709	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	416865			28.96- 88.96	63.89
13.644	13.644 (0.910)	83	525280			48.22- 108.22	80.50
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.700 (0.913)	166	868642	56.3654	56.365	80.00- 120.00	100.00
13.699	13.700 (0.913)	129	720817			52.22- 112.22	82.98
13.699	13.700 (0.913)	131	702355			48.81- 108.81	80.86
119 2-Hexanone					CAS #: 591-78-6		
14.003	14.031 (0.934)	58	863526	50.6154	50.615	80.00- 120.00	100.00
14.003	14.031 (0.934)	43	1975762			202.71- 262.71	228.80
14.031	14.031 (0.935)	100	141204			0.00- 30.00	16.35
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1197576	54.3318	54.332	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	944280			0.00- 30.00	78.85
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1064598	56.7423	56.742	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1006127			65.15- 125.15	94.51
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1582098	55.5339	55.534	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	502392			1.88- 61.88	31.75
15.026	15.027 (1.002)	77	917916			29.54- 89.54	58.02
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	831182	55.8110	55.811	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2706104			0.00- 30.00	325.57
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1056454	55.0408	55.041	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2227696			0.00- 30.00	210.87
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1000976	57.6757	57.676	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2163025			192.65- 252.65	216.09
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	1525556	55.4230	55.423	80.00- 120.00	100.00
15.911	15.912 (1.061)	78	828500			22.99- 82.99	54.31
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1079371	58.3383	58.338	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	551819			22.26- 82.26	51.12
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1383644	60.3136	60.314	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	897426			34.43- 94.43	64.86
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3331567	57.6135	57.614	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	950356			0.00- 58.68	28.53
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2914268	54.6162	54.616	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1358784			0.00- 30.00	46.63
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2428095	53.7656	53.766	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1091812			14.70- 74.70	44.97
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1703278	59.2494	59.249	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1085160			0.00- 30.00	63.71
17.764	17.764 (1.184)	111	687975			0.00- 30.00	40.39
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2034683	58.1748	58.175	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1286629			0.00- 30.00	63.23
17.847	17.847 (1.190)	111	873698			0.00- 30.00	42.94
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3082526	64.8891	64.889	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	626257			0.00- 30.00	20.32
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1716283	57.5735	57.573	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1115626			35.07- 95.07	65.00
18.206	18.206 (1.214)	111	699837			11.31- 71.31	40.78

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	1312333	57.5037	57.504	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1249565			66.31- 126.31	95.22
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1030721	50.5337	50.534	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	642052			32.41- 92.41	62.29
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3525912	57.4713	57.471	80.00- 120.00	100.00
16.824	16.852 (1.122)	120	810094			0.00- 30.00	22.98
16.824	16.852 (1.122)	105	133542			0.00- 30.00	3.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3260313	56.5490	56.549	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	816463			0.00- 30.00	25.04
16.326	16.326 (1.088)	51	507214			0.00- 30.00	15.56
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4537540	63.8654	63.865	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	584575			0.00- 30.00	12.88
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.692)	59	709816	39.8234	39.823	80.00- 120.00	100.00
5.598	5.598 (0.692)	41	237006			0.00- 30.00	33.39
5.598	5.598 (0.692)	57	76018			0.00- 30.00	10.71
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.333)	58	305818	53.8486	53.849	80.00- 120.00	100.00
2.695	2.695 (0.333)	43	2569549			0.00- 30.00	840.22
17 Isopentane					CAS #: 78-78-4		
3.414	3.442 (0.422)	43	1906502	52.9252	52.925	80.00- 120.00	100.00
3.441	3.442 (0.426)	57	1134137			0.00- 30.00	59.49
3.441	3.442 (0.426)	72	99458			0.00- 30.00	5.22
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	1060461	55.0162	55.016	80.00- 120.00	100.00
10.575	10.575 (1.064)	98	516863			0.00- 30.00	48.74
10.575	10.575 (1.064)	55	1371578			0.00- 30.00	129.34

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 31-Mar-2008 08:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5033103.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-31mar.b/t14q221a.m
Misc Info: 50ppbv (50ppbv)

Calibration Date: 31-MAR-2008
Calibration Time: 08:10
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	323835	194301	453369	242925	-24.98
92 1,4-Difluorobenze	1073233	643940	1502526	818024	-23.78
125 Chlorobenzene-d5	666140	399684	932596	568659	-14.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

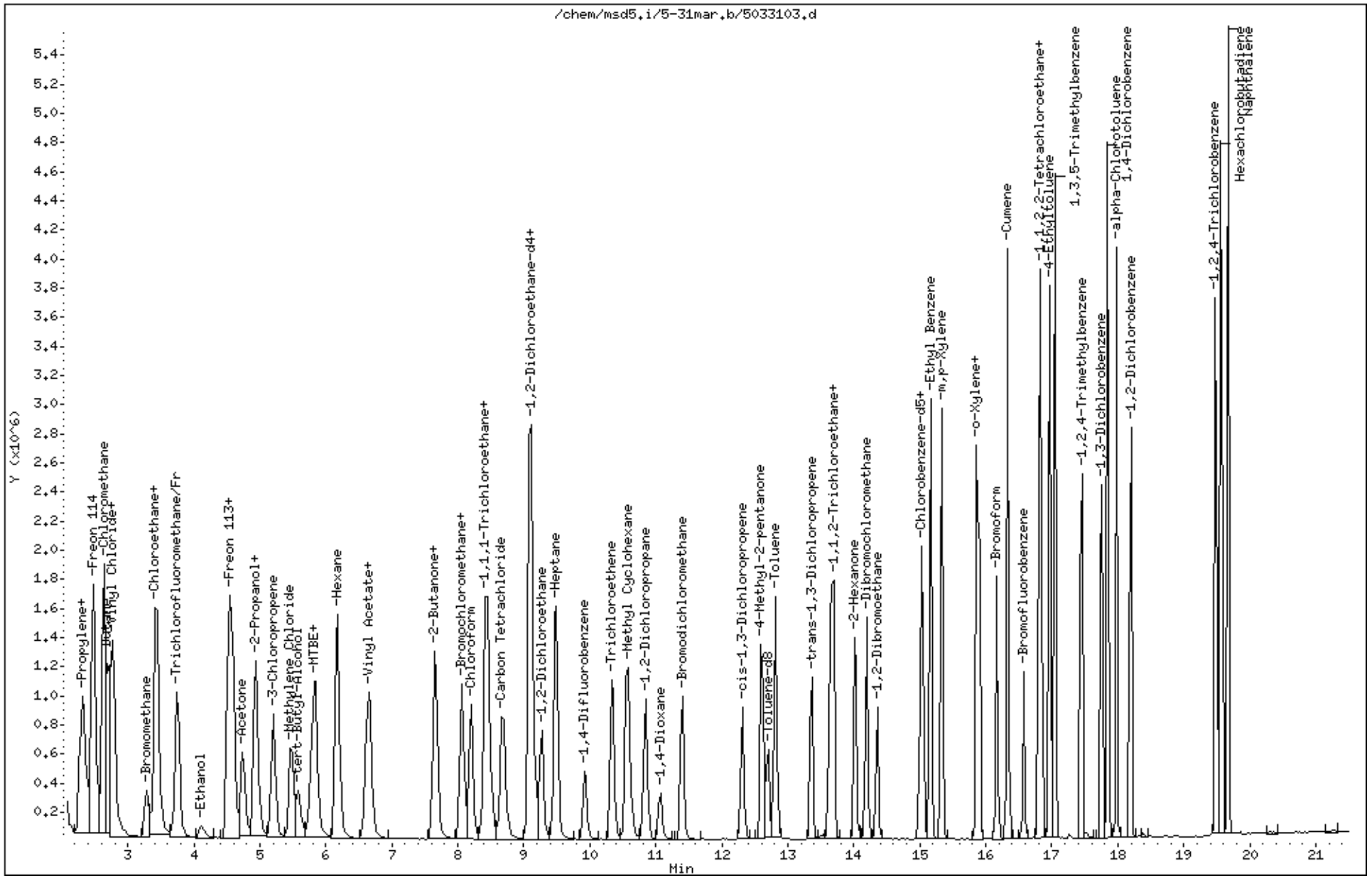
0208

Data File: /chem/msd5.i/5-31mar.b/5033103.d
Date : 31-MAR-2008 08:43
Client ID: LCS-1
Sample Info: 200mL #1576-260B

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

0209

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.02
75	30.0 – 60.0% of mass 95	53.02
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.37
173	Less than 2.0% of mass 174	(0.74)[1]
174	Greater than 50.0% of mass 95	71.86
175	5.0 – 9.0% of mass 174	(7.07)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.02)[1]
177	5.0 – 9.0% of mass 176	(6.39)[2]

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

BFB Injection Date: 3/31/08
BFB Injection Time: 0744
BFB File ID: 5033101
Tekmar Purge Flow: 13.3 ml/min
Vacuum: 5.61x10-6 Torr

IS/S Std.#: 1576-278	Exp. Date: 5/20/08
BCM 323835	
1,4-DFB 1073233	
CB-d5 666140	

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

Verify 176/174 m/z Ratio: (1229824 / 1294336) x 100 = 95.016

NOAH Cart #: 7 **File #:** 5033105

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(889695)}{(~~323835~~ 1073233)} \times \frac{(25.000)}{(~~0.9147~~ 0.91713)} = 22.6076$

Reported Result 22.608

File ID: 5033102
Compound: Tol-d8
Initials: SS

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	~~5033001~~ 5033101 (3/31/08)	BFB Tune Check	1436-191	50ng	2.0ul	1.00	3/30/08	0744	SS	
2	✓	5033102	1576-273 200ppbv	CCV	50ppbv	50ml			0810	SS	2 out ↑: AGBE & THF <40%
3	✓	03	1576-260B 50ppbv	LCS-1	50ppbv	500ml			0843	SS	
4	✓	04	1541-11 200ppbv	Sp CCV	50ppbv	50ml			0922	SS	
5	X	05	Lab Blank	12941	Humid	200ml			1008	SS	Cart #5 / Log #16
6	X	06	Lab Blank	12941	Humid	200ml			1051	SS	Cart #5 / Log #16
7	✓	07	Lab Blank	12941	Humid	200ml			1137	SS	Cart #8 / Log #2
8	✓	08	4803461B-19A	33710	[illegible]	200ml	2.33		1236	SS	
9	X	09	20A	34158	[illegible]	100ml	4.99		1304	SS	RR @ 200 ml 3/31/08

Signature [signature]   Date 3/31/08

@ Air Toxics Ltd. **MSD-5** **Logbook #: 1637**

10	✓	5033110	0803446-23A	34158	5.5"Hg-15psi	200mL	2.27	3/31/08	1359	KR		
11	✓	11	21A	2047	4.5"Hg		2.38		1431	KR		
12	✓	12	22A	~~2047~~	~~4.5"Hg~~		↓		1504	KR		
13	✓	13	23A	~~2126~~ 2147	3.0"Hg		2.24		1536	KR		
14	✓	14	33A	~~2187~~ 2265	9.5"Hg		2.33		1609	KR		
15	X	15	24A	~~2265~~ 35651	6.0"Hg		2.53		1641	KR	RR 125mL	
16	✓	16	25A	~~35651~~ 3240	2.0"Hg		2.16		1713	KR		
17	✓	17	26A	3240	4.0"Hg		2.33		1746	KR		
18	✓	18	24A	2065	6.0"Hg-15psi	125mL	4.05		1834	KR		
19	✓	19	27A	35617	3.5"Hg	200mL	2.29		1933	KR		
20	✓	20	28A	35692	4.5"Hg		2.38		2006	KR		
21	X	21	0803466-01A	31763	0.0"Hg		2.02		2038	KR	RR 2mL	
22	X	22	↓ 01AA	↓	↓		↓		2111	KR		
23	~~X~~	~~23~~	~~0803479-01A~~	~~23521~~	~~0.4psi-5psi~~		~~1.30~~		~~2143~~	~~KR~~		
24		24	-01AA	↓	↓		↓					
25		25	-02A	12457	6.5"Hg		1.71					
26		26	~~-03A~~	22508	14.6psi		1.02					
27		27	0803491-01A	4226	7.0"Hg		1.75					
28		~~28~~	~~-02A~~	~~05707~~	~~5.0"Hg~~		1.61					
29		5033124	System Blank	12941	Humid	200mL	1.00	3/31/08	2243	CB		
30	✓	25	0803446-01A	31763	0.0"Hg-15psi	2mL	2.02	↓	2323	CB		
31	✓	26	↓ -01AA	↓	↓	↓	↓	4/1/08	0005	CB		
32	✓	27	0803479-01A	23921	0.4psi-5psi	200mL	1.30	↓	0037	CB		

Comments:

Signature

4/1/08
Date

0120

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

0211

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

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: _____

BFB Injection Time: _____

BFB File ID: _____

Tekmar Purge Flow: _____

Vacuum: _____

IS/S Std.#:	Exp. Date:
BCM	
1,4-DFB	
CB-d5	

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

Verify 176/174 m/z Ratio: _____

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

Calculation Check:

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

File ID:	
Compound:	SS 4hbs
Initials:	

Reported Result _____

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5033128	0803479 - 01AA	23921	0.4psi-5psi	200mL	1.30	4/1/08	0110	CB	
2	✓	29	-02A	12957	6.5psi-↓		1.71		0143	CB	
3	✓	30	-03A	22508	4.6psi-4.6psi		1.00		0215	CB	
4	✓	31	0803491 ~~-04 Dup~~ 01A	4226	7.5psi-5psi		1.75		0248	CB	
5	✓	32	-02A	05707	5.0psi-↓	↓	1.61	↓	0320	CB	
6											
7											
8											
9										SS 4hbs	

Signature

4/1/08
Date

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

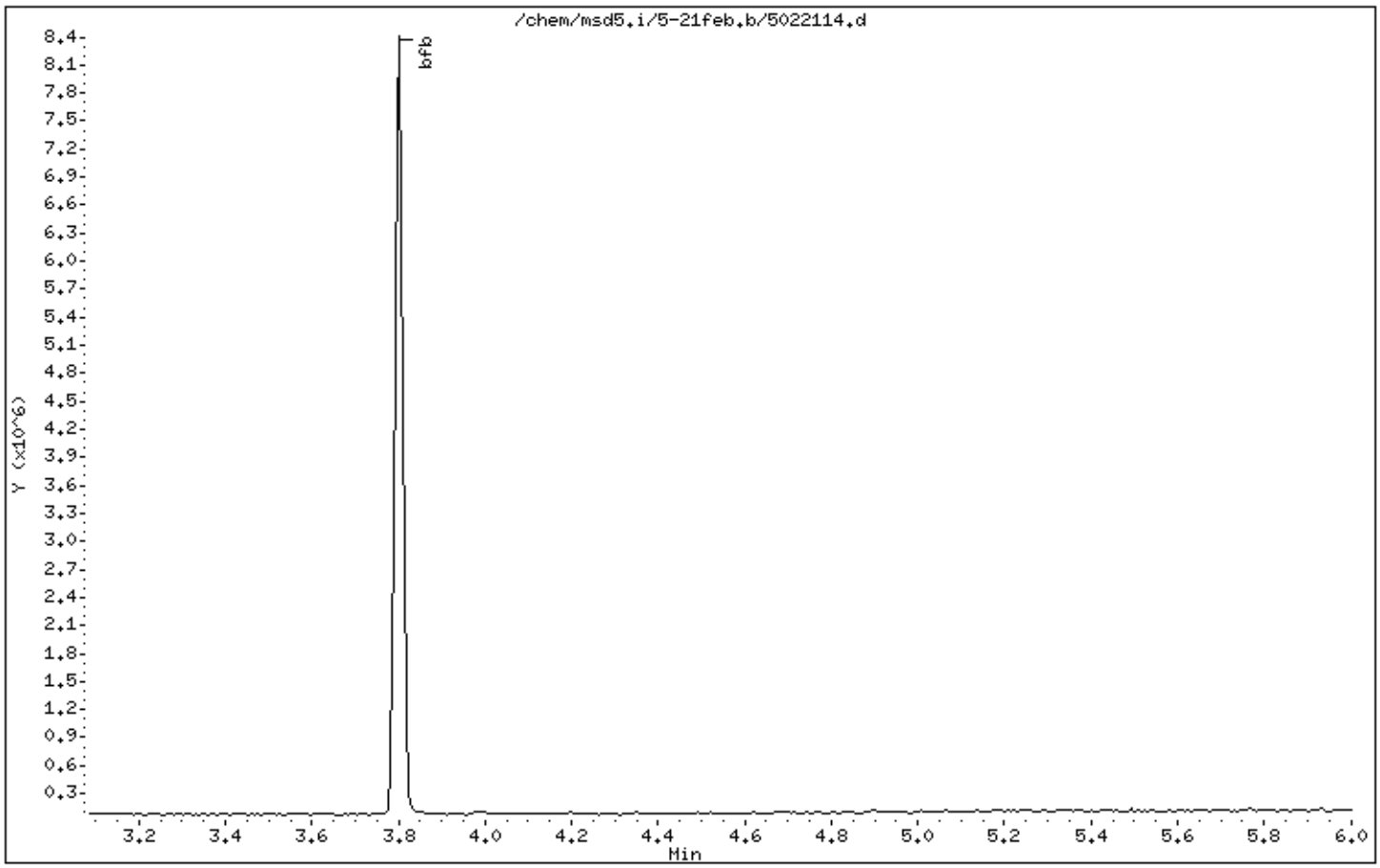
Sample Info: BFB Tune Check

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

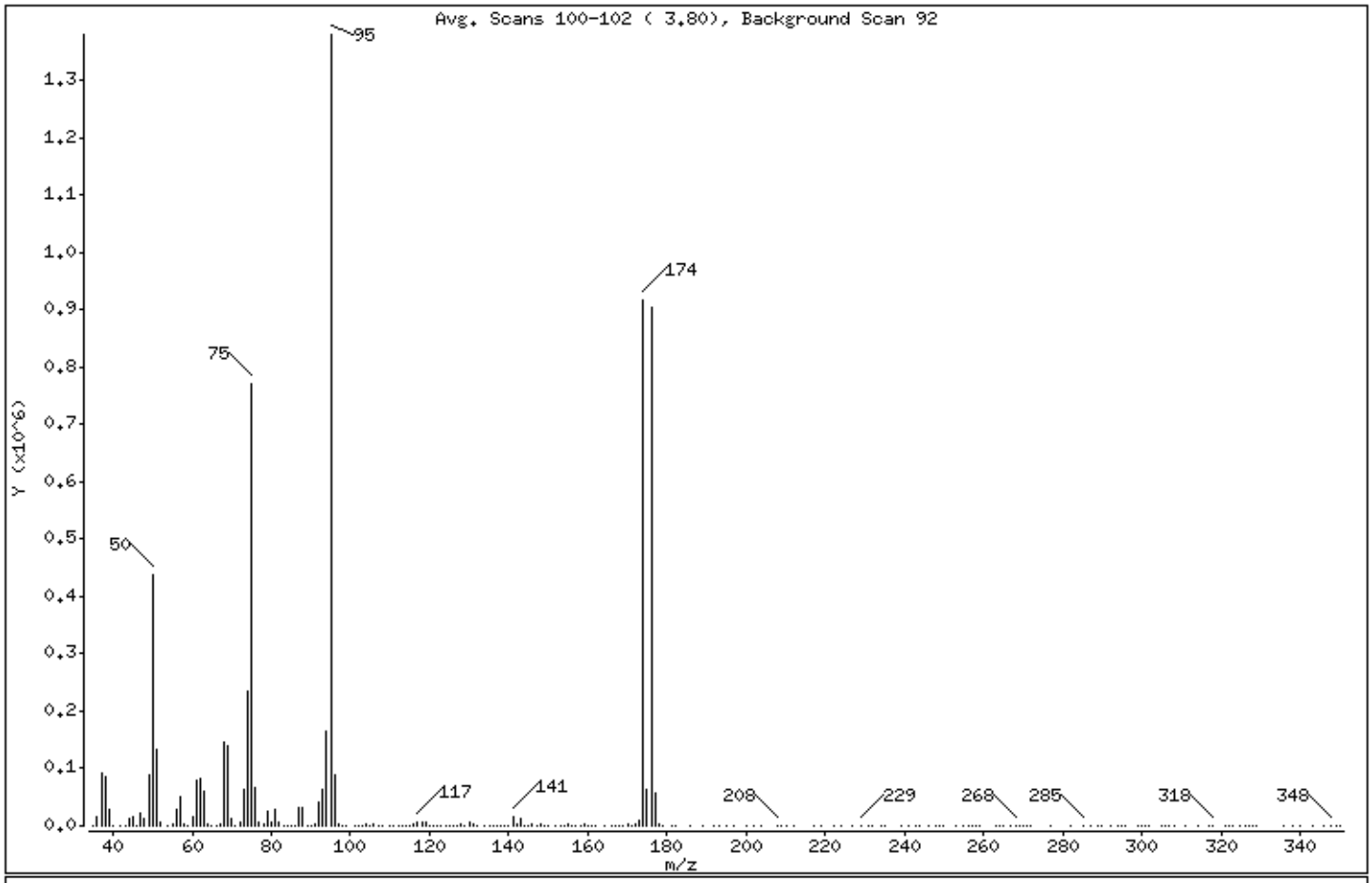
Volume Injected (uL): 1.0

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 : /var/chem/msd5.i/5-31mar.b/5033101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 31-MAR-2008 07:44
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-31mar.b/bfb30.m
Meth Date : 31-Mar-2008 07:33 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	1801524			100.00- 100.00	100.00
3.803	3.900	-0.097	50	558745			15.00- 40.00	31.02
3.803	3.900	-0.097	75	955148			30.00- 60.00	53.02
3.803	3.900	-0.097	96	113464			5.00- 9.00	6.30
3.803	3.900	-0.097	173	9612			0.00- 2.00	0.74
3.803	3.900	-0.097	174	1294506			50.00- 100.00	71.86
3.803	3.900	-0.097	175	91491			5.00- 9.00	7.07
3.803	3.900	-0.097	176	1229977			95.00- 101.00	95.02
3.803	3.900	-0.097	177	78560			5.00- 9.00	6.39

Data File: /var/chem/msd5.i/5-31mar.b/5033101.d

Date : 31-MAR-2008 07:44

Client ID: BFB

Instrument: msd5.i

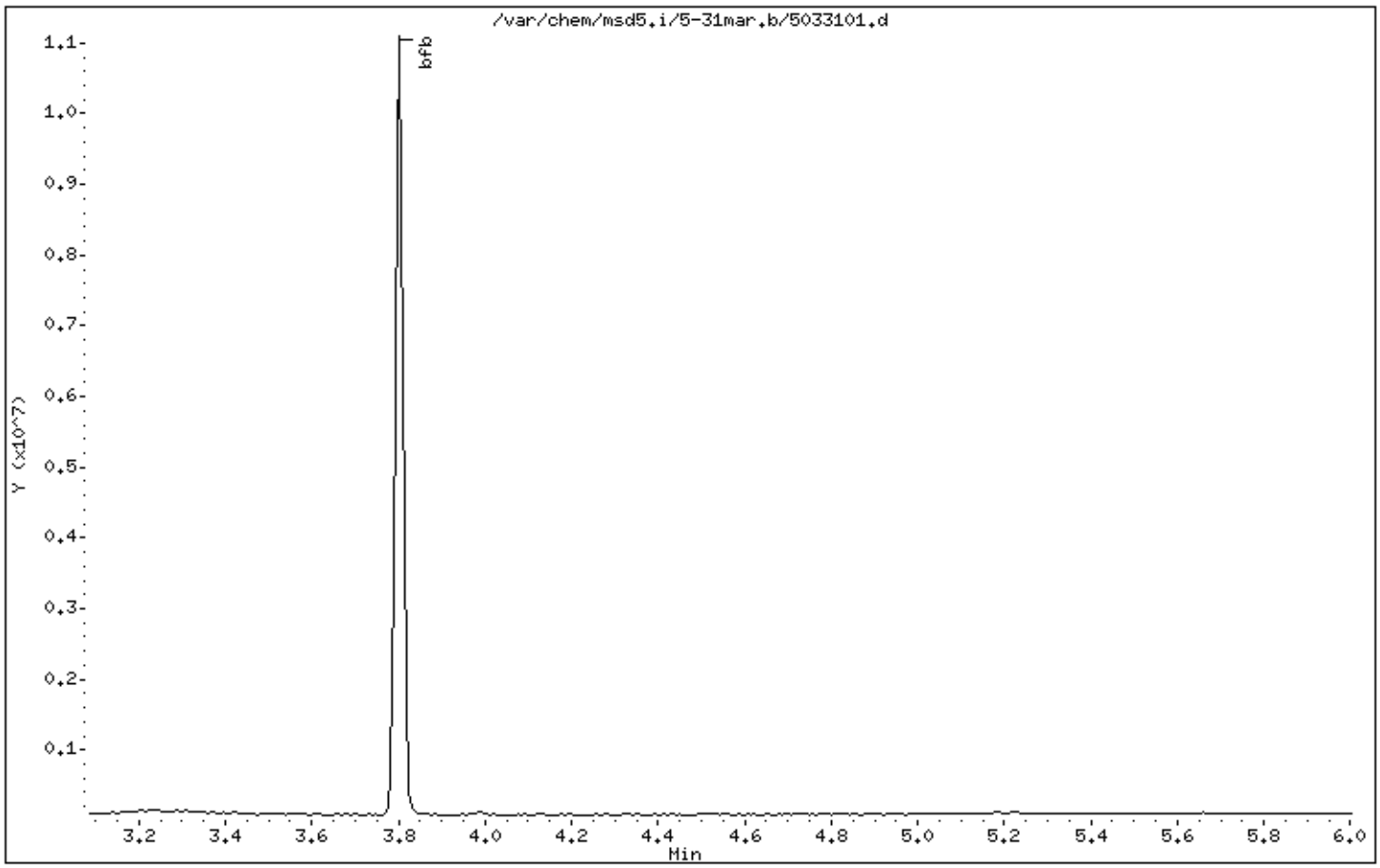
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-31mar.b/5033101.d

Date : 31-MAR-2008 07:44

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

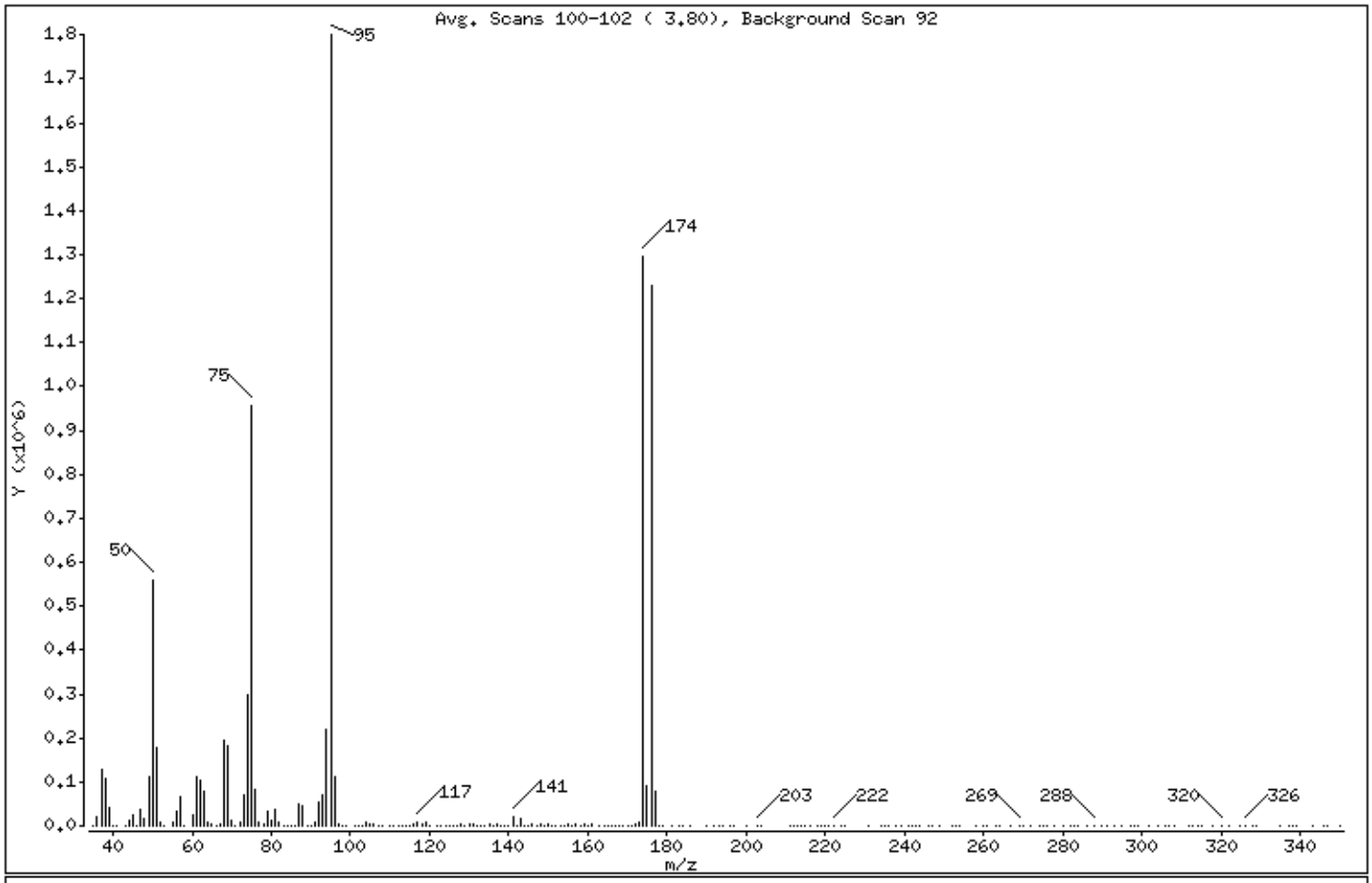
Volume Injected (uL): 1.0

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	31.02
75	30.00 - 60.00% of mass 95	53.02
96	5.00 - 9.00% of mass 95	6.30
173	Less than 2.00% of mass 174	0.53 (0.74)
174	50.00 - 100.00% of mass 95	71.86
175	5.00 - 9.00% of mass 174	5.08 (7.07)
176	95.00 - 101.00% of mass 174	68.27 (95.02)
177	5.00 - 9.00% of mass 176	4.36 (6.39)

Date : 31-MAR-2008 07:44

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: 5033101.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	214	96.00	113464	157.00	3260	246.00	123
36.00	18912	97.00	3101	158.00	657	247.00	195
37.00	126456	98.00	815	159.00	2295	249.00	11
38.00	106312	99.00	164	160.00	434	252.00	45
39.00	42368	101.00	176	161.00	2937	253.00	269
40.00	965	102.00	354	163.00	170	254.00	64
41.00	370	103.00	44	164.00	286	258.00	107
43.00	1671	104.00	7460	165.00	370	260.00	123
44.00	11928	105.00	2703	166.00	225	261.00	165
45.00	24720	106.00	6094	167.00	1161	263.00	164
46.00	1696	107.00	1977	168.00	179	264.00	114
47.00	35480	108.00	207	169.00	633	267.00	514
48.00	15853	110.00	937	170.00	309	269.00	565
49.00	113184	111.00	1045	171.00	1790	270.00	288
50.00	558720	112.00	1186	172.00	5710	272.00	75
51.00	178496	113.00	1288	173.00	9612	274.00	86
52.00	6736	114.00	21	174.00	1294336	275.00	178
53.00	431	115.00	1292	175.00	91488	276.00	126
55.00	6928	116.00	5492	176.00	1229824	278.00	202
56.00	34872	117.00	8693	177.00	78560	280.00	72
57.00	66544	118.00	5130	178.00	1339	282.00	279
58.00	1935	119.00	6331	179.00	230	283.00	219
60.00	22952	120.00	350	181.00	455	284.00	95
61.00	110704	122.00	1208	183.00	61	286.00	113
62.00	101920	123.00	671	184.00	19	288.00	478
63.00	77096	124.00	863	186.00	57	290.00	86
64.00	7645	125.00	720	190.00	327	291.00	240
65.00	3336	126.00	969	192.00	137	293.00	50
66.00	988	127.00	680	193.00	104	295.00	159
67.00	4069	128.00	5036	194.00	78	297.00	408
68.00	194496	129.00	1495	196.00	227	298.00	169
69.00	183488	130.00	5907	197.00	77	299.00	144
70.00	13697	131.00	2745	200.00	312	302.00	70
71.00	369	132.00	201	203.00	380	304.00	63
72.00	9209	133.00	173	204.00	173	306.00	52

Date : 31-MAR-2008 07:44

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: 5033101.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	72048	134.00	10	211.00	264	307.00	65
74.00	299136	135.00	2543	212.00	208	308.00	124
75.00	955136	136.00	694	213.00	67	312.00	219
76.00	82928	137.00	3801	214.00	77	313.00	248
77.00	8225	138.00	133	215.00	73	314.00	61
78.00	3815	139.00	1636	216.00	200	315.00	335
79.00	35032	140.00	1244	218.00	288	318.00	257
80.00	10356	141.00	19648	219.00	150	320.00	531
81.00	37696	142.00	1073	220.00	126	322.00	338
82.00	8746	143.00	17224	221.00	73	325.00	284
83.00	1192	144.00	1326	222.00	521	326.00	587
84.00	314	145.00	1612	224.00	340	328.00	236
85.00	482	146.00	2420	225.00	239	329.00	56
86.00	1665	147.00	1408	231.00	57	335.00	58
87.00	51128	148.00	3926	234.00	89	337.00	183
88.00	45496	149.00	1000	235.00	77	338.00	72
89.00	446	150.00	2413	236.00	359	339.00	68
90.00	189	151.00	239	238.00	137	343.00	301
91.00	6552	152.00	941	239.00	176	346.00	104
92.00	52456	153.00	991	241.00	272	347.00	180
93.00	72416	154.00	1326	242.00	81	350.00	60
94.00	217856	155.00	2335	243.00	89		
95.00	1801216	156.00	624	244.00	259		

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. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0803479
# of pages (Including Cover): 1

4/7/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found 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.

The following discrepancy has been observed:

The number of samples received did not match the information on the Chain of Custody (COC). Sample Trip Blank was added to the analytical request.

Your prompt response is appreciated.

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

0224

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

Project Info:
P.O. #
Project # 061140 - 8 - 1703
Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:
☒ Normal
☐ Rush _____
Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	DW AMS 3 23921	600/1400 3-20-08	TO-15 + Naphthalene	-30	0	
02A	DW AMS 5 12957	600/1400 3-20-08	TO-15 + Naphthalene	-29	-7	
	X AMS XX 35154	600/1400 3-20-08	DO NOT ANALYZE	-30	-7	

Relinquished By: (Signature) Date/Time: 3-20-08
Received By: (Signature) Date/Time: ATI 03-21-08 0840
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? Yes No None	Work Order #
	FedEx	8635 4958 7116					080347 9

CUSTODY SEAL INTACT? Y N NONE TEMP NA

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0803479

Client

Ms. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 04/04/08
Date Completed: 4/3/08
Date Received: 3/21/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 1,048.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 3	Modified TO-15	3/20/2008	0.4 psi	$225.00
01AA	DW AMS 3 Lab Duplicate	Modified TO-15	3/20/2008	0.4 psi	$0.00
02A	UW AMS 5	Modified TO-15	3/20/2008	6.5 "Hg	$225.00
03A	Trip Blank	Modified TO-15	NA	4.6psi	$225.00
04A	Lab Blank	Modified TO-15	NA	NA	$0.00
05A	CCV	Modified TO-15	NA	NA	$0.00
06A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each., Shipment 58293	$50.00
	6 Liter Summa Canister (100% Certified) (3) @ $65.00 each., Shipment 58	$195.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58293	$35.00
	Blue Body Flow Controller (100% Certified) (2) @ $40.00 each., Shipmen	$80.00
	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. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MW **Date:** 3/21/08 **Discrepancy Type:** (circle all that apply) I. (II.) III.

Workorder(s) affected: 0803479 **Sample(s) affected:** 03A

I. Sample Receipt Discrepancies

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

Narration Not Required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm.
- ☐ Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required:

- ☐ COC improperly relinquished / received.
- ☐ Sample tags / can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☒ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply): ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

Initials: _____ **Date:** _____ ☐ **CSR Notified** (see section below)
(if not the original initiator)

Describe the Discrepancy: trip blank - analyze?

0226

III. Lab Discrepancies requiring Team Leader/CSR notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out CSR must be notified within 24 hrs of initiation

- ☐ Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (circle one) be analyzed.
- ☐ Tedlar Bag found to be flat at the time of analysis.
- ☐ Canister found to be leaking at the time of analysis.
- ☐ Tedlar Bag received at low volume; sample cannot be analyzed.
- ☐ Sulfur samples received with insufficient time to analyze prior to expiration.
- ☐ VOST tube saturated; bag dilution necessary.
- ☐ Sample loss due to instrument malfunction / broken glassware.
- ☐ Other (describe below).

Initials: _____ **Date:** _____ ☐ **CSR Notified**
(if not the original initiator) (see section below)

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

Client Services Use Only

Client Services Notification

CSR notified: _____ Date: _____

Action:

- ☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

  CSR Initials: _____ Date: _____

- ☑ Client notification required. See attached client contact / email, or comments below:

  Client Notification:

  Person notified: Theresa Landgraff Date: 3-24-08

  Comments: Please analyze trip blank.

  _____

  ☐ Lab notified Name: [redacted] Date: _____

Additional Notifications

CSR notified: _____ Date: _____

Action:

- ☐ It is not necessary to notify the client. Narrate the discrepancy by documenting on cover page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

  CSR Initials: _____ Date: _____

- ☐ Client notification required. See attached client contact / email, or comments below:

  Client Notification:

  Person notified: _____ Date: _____

  Comments: _____

  _____

  ☐ Lab notified Name: _____ Date: _____

☐ **Additional notifications attached.**

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

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

DILUTION FACTORS

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

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

Air Toxics LTD.

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

Media Certification Report

Canister Number: 6L#23921 w/10.2ml+T
Can#: 58293-23921
Date : 03/15/08 3:36
Data File: x031432.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
Carbon Tetrachloride	56-23-5	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		102.00	% Recovery
Toluene-d8	2037-26-5		101.00	% Recovery
4-Bromofluorobenzene	460-00-4		97.00	% Recovery

Air Toxics LTD.

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

Media Certification Report

Canister Number: 6L#22508 w/10.2ml+T
Can#: 58293-22508
Date : 03/15/08 2:08
Data File: x031429.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
Carbon Tetrachloride	56-23-5	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		108.00	% Recovery
Toluene-d8	2037-26-5		101.00	% Recovery
4-Bromofluorobenzene	460-00-4		103.00	% Recovery

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0803179

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.
NA	☐	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☐	☐	NA	☐	Corrective Action issued - #
☑	☐	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

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

☑	☒	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☒	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☒	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
NA	☒	☐			TICs resemble reference spectra
NA	☒	☐			TICs between duplicate samples are consistent
☑	☒	☐	☐		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
NA	☐		NA		Special units for all samples in the final report are correctly calculated
NA	☒	☐	☑		Manually entered results checked (i.e. special CCV compounds)
NA	☒	☐	NA		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
☑	NA ☐				Verify canister ID #'s
	☒		☒		Extra printed copies are provided per client profile
	☒		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☒	☐	NA	☐	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: 2 out in CCV; MEK & THF >40%

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
4/1/08	R: CTaylor 4-3-08	ML 04/03/08.	
	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