
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 #: 0801302

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	21
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	22	29
b. Surrogate Recover Summary Form (If Applicable)	30	30
c. Internal Standard Summary Form (If Applicable)	31	31
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	32	131
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	132	146
i. Second Source LCS(Summary + Raw Data)	147	160
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	161	162
l. GC/MS Tune (Results + Raw Data)	163	172
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	173	174
b. Chain-of-Custody Records	175	175
c. Sample Log-In Sheet	176	176
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	177	179
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	180	181
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	182	182

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	2/1/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0801302

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	01/18/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	01/31/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 1	Modified TO-15	5.5 "Hg	5 psi
02A	UW AMS 5	Modified TO-15	6.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Fruman DATE: 01/31/08

Laboratory Director

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

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0801302

Two 6 Liter Summa Canister samples were received on January 18, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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 not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
DW AMS 1	0801302-01A	1/16/2008	1/18/2008	NA	5	1/21/2008	NA	Good
UW AMS 5	0801302-02A	1/16/2008	1/18/2008	NA	5	1/21/2008	NA	Good
Lab Blank	0801302-03A	NA	NA	NA	NA	1/21/2008	NA	Good
CCV	0801302-04A	NA	NA	NA	NA	1/21/2008	NA	Good
LCS	0801302-05A	NA	NA	NA	NA	1/21/2008	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 1

Lab ID#: 0801302-01A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 1

Lab ID#: 0801302-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012116**	**Date of Collection: 1/16/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 1/21/08 08:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 1

Lab ID#: 0801302-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012116**	**Date of Collection: 1/16/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 1/21/08 08:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	Not Detected	7.8	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected U J	17	Not Detected U J

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21jan.b/5012116.d
Lab Smp Id: 0801302-01A
Inj Date : 21-JAN-2008 20:52
Operator : sjr Inst ID: msd5.i
Smp Info : 200mL #33790
Misc Info : 5.5"Hg -> 5.0psi
Comment :
Method : /var/chem/msd5.i/5-21jan.b/t14q117a.m
Meth Date : 21-Jan-2008 10:21 sruth Quant Type: ISTD
Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
Als bottle: 1
Dil Factor: 1.64000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	282036	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	221257			45.10- 105.10	78.45
8.059	8.059 (1.000)	49	656141			193.42- 253.42	232.64
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1105357	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	179916			0.00- 46.45	16.28
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	945752	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	550817			0.00- 30.00	58.24
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137 (1.130)	65	447652	24.7951	24.795	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	214014			0.00- 30.00	47.81
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1037015	24.5723	24.572	80.00- 120.00	100.00
12.677	12.704 (1.279)	70	114143			0.00- 30.00	11.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	691632			0.00- 30.00	66.69
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	548339	24.4932	24.493	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	788512			118.62- 178.62	143.80
16.575	16.575 (1.105)	176	522742			66.99- 126.99	95.33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5012116.d
Lab Smp Id: 0801302-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 5.5"Hg -> 5.0psi

Calibration Date: 21-JAN-2008
Calibration Time: 09:29
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	419468	251681	587255	282036	-32.76
92 1,4-Difluorobenze	1605530	963318	2247742	1105357	-31.15
125 Chlorobenzene-d5	1343995	806397	1881593	945752	-29.63

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0801302-01A
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 5.5"Hg -> 5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.795	99.18	70-130
$ 107 Toluene-d8	25.000	24.572	98.29	70-130
$ 138 Bromofluorobenzene	25.000	24.493	97.97	70-130

Data File: /chem/msd5.i/5-21jan.b/5012116.d

Date : 21-JAN-2008 20:52

Client ID:

Sample Info: 200mL #33790

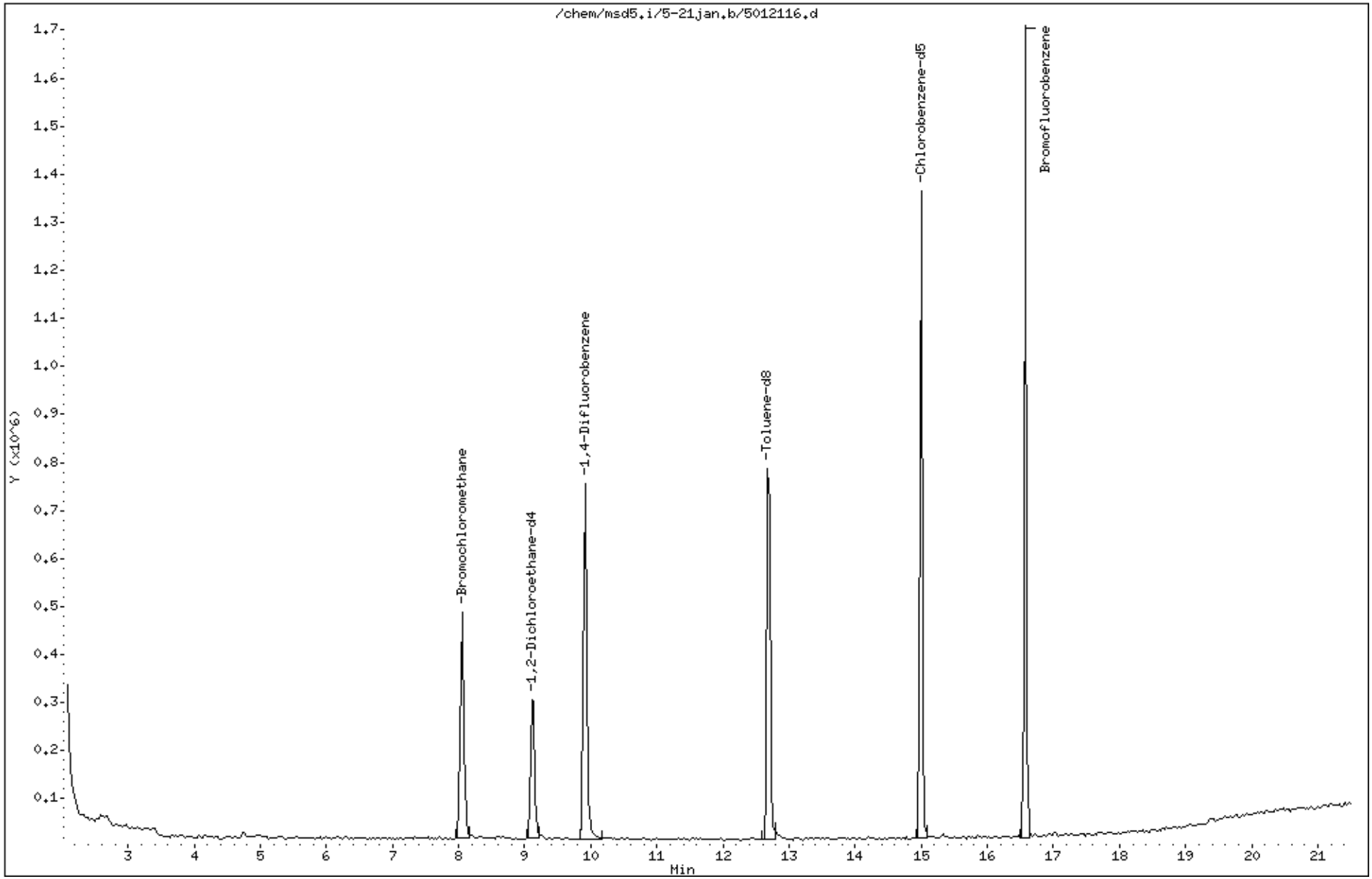
Column phase: RTx-624

Instrument: msd5.i

Operator: sjr

Column diameter: 0.53

0013



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#: 0801302-02A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0801302-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012117**	**Date of Collection: 1/16/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 1/21/08 09:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	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#: 0801302-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012117**	**Date of Collection: 1/16/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 1/21/08 09:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	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 U J	18	Not Detected U J

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21jan.b/5012117.d
Lab Smp Id: 0801302-02A
Inj Date : 21-JAN-2008 21:24
Operator : sjr Inst ID: msd5.i
Smp Info : 200mL #31156
Misc Info : 6.5"Hg -> 5.0psi
Comment :
Method : /var/chem/msd5.i/5-21jan.b/t14q117a.m
Meth Date : 21-Jan-2008 10:21 sruth Quant Type: ISTD
Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	286924	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	229966			45.10- 105.10	80.15
8.059	8.059 (1.000)	49	650404			193.42- 253.42	226.68
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1093226	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	175479			0.00- 46.45	16.05
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	934020	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	551333			0.00- 30.00	59.03
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137 (1.130)	65	454638	24.7530	24.753	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	209908			0.00- 30.00	46.17
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.676	12.704 (1.279)	98	1011737	24.2394	24.239	80.00- 120.00	100.00
12.676	12.704 (1.279)	70	116080			0.00- 30.00	11.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	679966			0.00- 30.00	67.21
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	543073	24.5627	24.563	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	787024			118.62- 178.62	144.92
16.575	16.575 (1.105)	176	509158			66.99- 126.99	93.75

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5012117.d
Lab Smp Id: 0801302-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 6.5"Hg -> 5.0psi

Calibration Date: 21-JAN-2008
Calibration Time: 09:29
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	419468	251681	587255	286924	-31.60
92 1,4-Difluorobenze	1605530	963318	2247742	1093226	-31.91
125 Chlorobenzene-d5	1343995	806397	1881593	934020	-30.50

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0801302-02A
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 6.5"Hg -> 5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.753	99.01	70-130
$ 107 Toluene-d8	25.000	24.239	96.96	70-130
$ 138 Bromofluorobenzene	25.000	24.563	98.25	70-130

Data File: /chem/msd5.i/5-21jan.b/5012117.d

Page 1

Date : 21-JAN-2008 21:24

Client ID:

Instrument: msd5.i

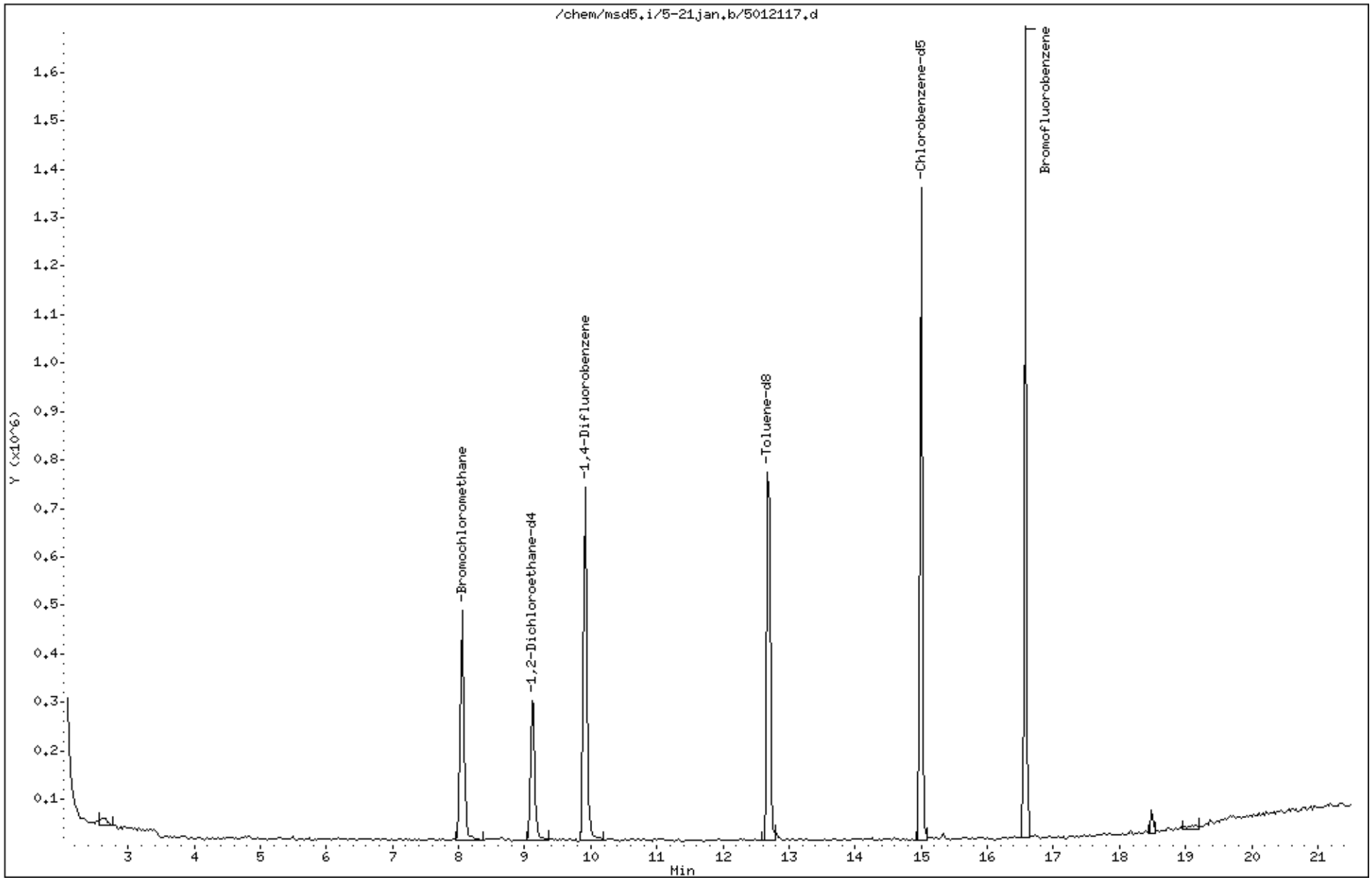
Sample Info: 200mL #31156

Operator: sjr

Column phase: RTx-624

Column diameter: 0.53

0021



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801302-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/08 02:19 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#: 0801302-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/08 02:19 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 U J	10	Not Detected U J

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21jan.b/5012106.d
Lab Smp Id: Lab blank Client Smp ID: Cart Cert #15
Inj Date : 21-JAN-2008 14:19
Operator : sjr Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Humid Cart Cert #15 Leg 1
Comment :
Method : /var/chem/msd5.i/5-21jan.b/t14q117a.m
Meth Date : 21-Jan-2008 10:21 sruth Quant Type: ISTD
Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	314273	25.0000			80.00- 120.00	100.00
8.059	8.059 (1.000)	128	245112				45.10- 105.10	77.99
8.059	8.059 (1.000)	49	725796				193.42- 253.42	230.94
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1212649	25.0000			80.00- 120.00	100.00
9.911	9.911 (1.000)	88	199277				0.00- 46.45	16.43
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1037780	25.0000			80.00- 120.00	100.00
14.999	14.999 (1.000)	82	592158				0.00- 30.00	57.06
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.110	9.137 (1.130)	65	482724	23.9950	23.995		80.00- 120.00	100.00
9.137	9.137 (1.134)	67	229912				0.00- 30.00	47.63
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1124505	24.2879	24.288		80.00- 120.00	100.00
12.676	12.704 (1.279)	70	120440				0.00- 30.00	10.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	743743			0.00- 30.00	66.14
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	578528	23.5501	23.550	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	837566			118.62- 178.62	144.78
16.575	16.575 (1.105)	176	556642			66.99- 126.99	96.22

Report Date: 21-Jan-2008 14:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5012106.d
Lab Smp Id: Lab blank
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: Humid Cart Cert #15 Leg 1

Calibration Date: 21-JAN-2008
Calibration Time: 09:29
Client Smp ID: Cart Cert #15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	419468	251681	587255	314273	-25.08
92 1,4-Difluorobenze	1605530	963318	2247742	1212649	-24.47
125 Chlorobenzene-d5	1343995	806397	1881593	1037780	-22.78

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

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

Report Date: 21-Jan-2008 14:39

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab blank Client Smp ID: Cart Cert #15
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: Humid Cart Cert #15 Leg 1

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.995	95.98	70-130
$ 107 Toluene-d8	25.000	24.288	97.15	70-130
$ 138 Bromofluorobenzene	25.000	23.550	94.20	70-130

Data File: /chem/msd5.i/5-21jan.b/5012106.d

Date : 21-JAN-2008 14:19

Client ID: Cart Cert #15

Sample Info: 200mL #12941

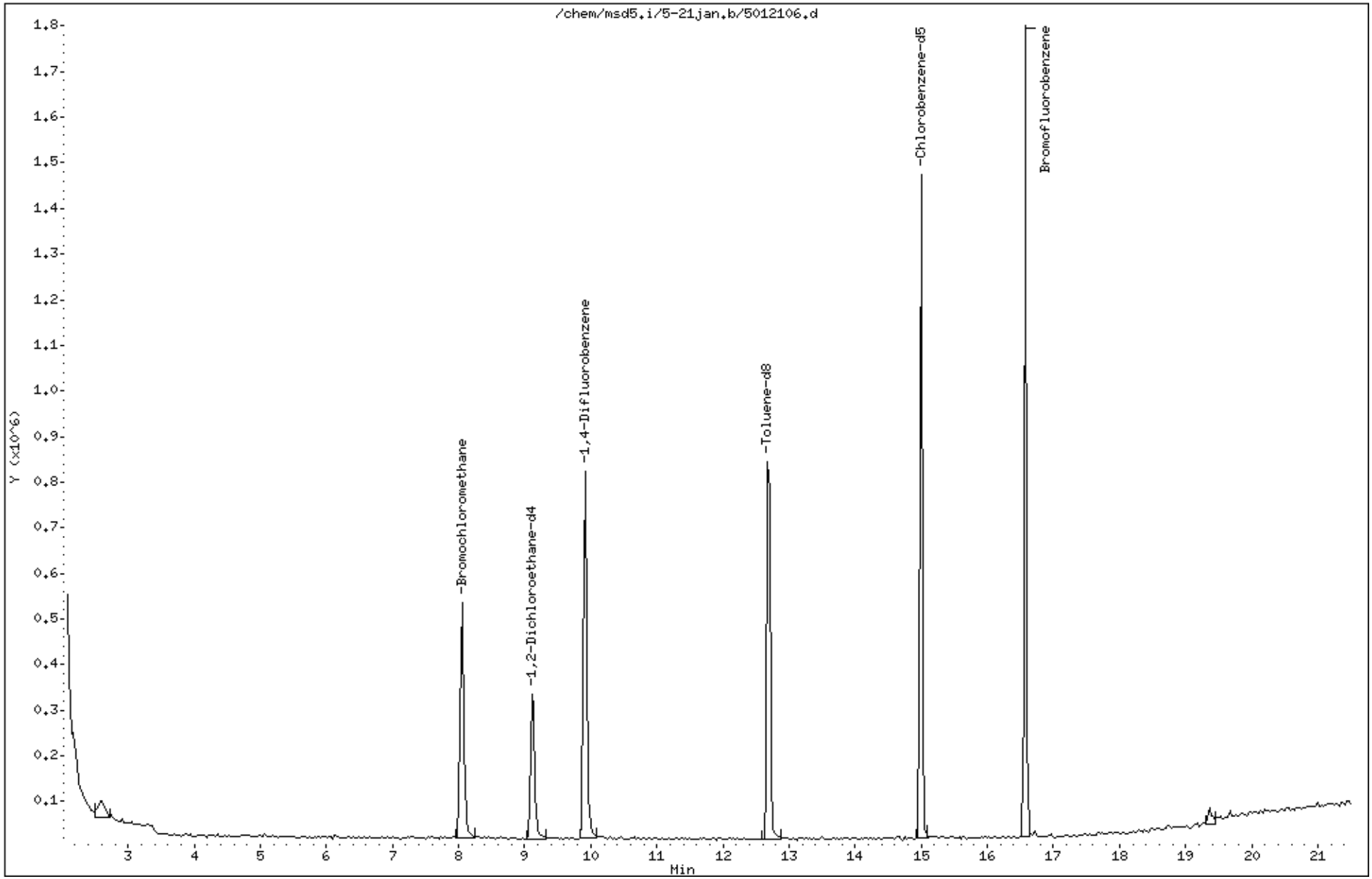
Column phase: RTx-624

Instrument: msd5.i

Operator: sjr

Column diameter: 0.53

0029



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0801302

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 1	99		98		98				0
02	UW AMS 5	99		97		98				0
03	Lab Blank	96		97		94				0
04	CCV	95		98		98				0
05	LCS	96		97		98				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0801302

Lab File ID: 5012102.d | Date Analyzed: 01/21/2008

Instrument ID: msd5.i | Time Analyzed: 09:29 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1343995		15		1605530		9.91		419468		8.06	
	UPPER LIMIT	1881593		15.33		2247742		10.24		587255		08.39	
	LOWER LIMIT	806397		14.67		963318		09.58		251681		07.73	
	CLIENT SAMPLE NO												
01	DW AMS 1	945752		15		1105357		9.91		282036		8.06	
02	UW AMS 5	934020		15		1093226		9.91		286924		8.06	
03	Lab Blank	1037780		15		1212649		9.91		314273		8.06	
04	CCV	1343995		15		1605530		9.91		419468		8.06	
05	LCS	1012885		15		1187538		9.91		306705		8.06	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
Cal Date : 18-Jan-2008 11:49 cbond
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-17jan.b/5011708.d
Level 2: /chem/msd5.i/5-17jan.b/5011709.d
Level 3: /chem/msd5.i/5-17jan.b/5011716.d
Level 4: /chem/msd5.i/5-17jan.b/5011711.d
Level 5: /chem/msd5.i/5-17jan.b/5011712.d
Level 6: /chem/msd5.i/5-17jan.b/5011713.d
Level 7: /chem/msd5.i/5-17jan.b/5011714.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	1.62479	1.99279	1.90560	1.78467	1.77516	1.81660	7.711
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
Cal Date : 18-Jan-2008 11:49 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	+++++	2.31535	2.66083	3.47009	3.11979	2.90977		
	3.02610						2.91699	13.597
9 Freon 114	+++++	2.17516	2.21712	2.91998	2.82960	2.60166		
	2.40338						2.52448	12.358
10 Chloromethane	+++++	+++++	2.03062	2.59026	2.45864	2.25129		
	2.16666						2.29949	9.776
11 Butane	+++++	+++++	0.51497	0.58929	0.53593	0.51997		
	0.47143						0.52632	8.083
12 1,3-Butadiene	+++++	1.96783	1.94964	2.19207	2.05921	1.95571		
	1.82295						1.99123	6.225
13 Vinyl Chloride	+++++	1.94101	1.55726	2.22072	2.13306	1.99491		
	1.83664						1.94727	12.064
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Bromomethane	+++++	0.83523	0.98273	1.20271	1.21221	1.16652		
	1.12122						1.08677	13.699
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
17 Isopentane	+++++	+++++	2.68626	3.58394	3.40799	3.20225		
	3.01004						3.17810	10.994

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
Cal Date : 18-Jan-2008 11:49 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	+++++	0.91415	0.90083	1.06637	0.97458	0.89951		
	0.87528						0.93845	7.562
20 Trichlorofluoromethane/Fr11	+++++	2.52530	2.67386	3.78906	3.68714	3.49563		
	3.29045						3.24357	16.317
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 Ethanol	+++++	+++++	0.70376	0.93831	0.89453	0.78285		
	0.68926						0.80174	13.927
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
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Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
Cal Date : 18-Jan-2008 11:49 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							
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Freon 113	+++++	1.44459	1.57121	2.13787	2.02336	1.92876		
	1.83588						1.82361	14.657
31 1,1-Dichloroethene	+++++	1.93818	2.19030	2.94615	2.89778	2.78481		
	2.63799						2.56587	16.002
32 Acetone	+++++	+++++	0.87706	1.06963	1.03327	1.01051		
	0.94544						0.98718	7.737
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Carbon Disulfide	+++++	2.87021	3.19872	4.30270	4.13618	3.97823		
	3.79106						3.71285	15.131
36 2-Propanol	+++++	+++++	2.95320	4.37841	4.32279	4.12608		
	3.77785						3.91166	14.958
37 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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Cal Date : 18-Jan-2008 11:49 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	+++++	+++++	0.58934	0.73508	0.67733	0.64540	0.59647	0.64872	9.295
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	1.98331	1.82667	2.55542	2.48102	2.36013	2.23634	2.24048	12.762
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	2.24101	2.53508	2.35932	2.15340	1.97159	1.54482	2.13420	16.190
47 trans-1,2-Dichloroethene	+++++	1.16182	1.22664	1.55129	1.50113	1.44370	1.37889	1.37724	11.208

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
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	3.08190	2.83439	3.90751	3.73910	3.60799	3.43849	3.43490	11.869
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.35721	2.48069	3.21186	3.03391	2.94922	2.82136	2.80904	11.749
56 Vinyl Acetate	+++++	+++++	0.41251	0.45356	0.43749	0.41926	0.40413	0.42539	4.695
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 18-Jan-2008 11:49 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	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
62 Methyl Acrylate	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
63 2,4-Dimethylpentane	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
64 1-Propanol	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
65 Butanal	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
66 cis-1,2-Dichloroethene	*****	1.99356	1.80615	2.57489	2.40766	2.32794		
	2.20780						2.21967	12.671
67 2-Butanone	*****	0.68392	0.59340	0.75618	0.71611	0.70210		
	0.65723						0.68482	8.128

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
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	3.44970	2.51633	2.93563	2.80373	2.68806	2.55820	2.82527	12.139
72 Chloroform	4.37184	2.23316	1.98917	2.67319	2.52134	2.41881	2.32757	2.64787	29.855
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.77314	1.44519	2.01291	2.00984	1.89998	1.83831	1.82989	11.517
75 1,1,1-Trichloroethane	+++++	2.21070	2.02090	2.78487	2.66863	2.55108	2.44868	2.44747	11.721
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	1.94407	1.89707	2.57871	2.50787	2.41326	2.37055	2.28526	12.779
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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	___ RRF	% RSD
	200.000 Level 7							
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 2,2,4-Trimethylpentane	+++++	8.16957	7.64615	11.09257	10.66709	10.27108		
	9.75795						9.60073	14.512
81 Benzene	1.49936	0.77988	0.77020	1.09810	1.04545	0.97905		
	0.95212						1.01774	24.163
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,2-Dichloroethane	+++++	0.35372	0.42962	0.58163	0.56699	0.52881		
	0.51802						0.49646	17.694
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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Cal Date : 18-Jan-2008 11:49 cbond
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
90 Heptane	+++++	0.11144	0.10349	0.13743	0.13019	0.12538		
	0.11997						0.12132	10.242
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 Trichloroethene	+++++	0.32475	0.32127	0.45489	0.42887	0.40408		
	0.39202						0.38765	14.069
94 Methyl Cyclohexane	+++++	0.63422	0.48479	0.69837	0.64865	0.61499		
	0.60746						0.61475	11.608
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
98 1,2-Dichloropropane	+++++	0.38343	0.30165	0.47765	0.44214	0.42612		
	0.42104						0.40867	14.854
99 1,4-Dioxane	+++++	+++++	0.19875	0.25277	0.24223	0.23784		
	0.22796						0.23191	8.868
100 Bromodichloromethane	+++++	0.55321	0.43261	0.67925	0.63367	0.61696		
	0.60862						0.58739	14.651

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Cal Date : 18-Jan-2008 11:49 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	+++++	0.30417	0.36072	0.52605	0.50261	0.47411		
	0.47245						0.44002	19.884
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 4-Methyl-2-pentanone	0.67717	0.36347	0.31719	0.48028	0.44441	0.41269		
	0.40519						0.44291	26.189
108 Toluene	+++++	0.83658	0.84335	1.18189	1.11595	1.03878		
	1.03155						1.00802	14.022
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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	___ RRF	% RSD	
	200.000 Level 7								
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
113 trans-1,3-Dichloropropene	+++++	0.23996	0.31302	0.57263	0.56106	0.56190			
	0.56738						0.46933	32.217	<-
114 1,1,2-Trichloroethane	+++++	0.34691	0.34367	0.44990	0.42088	0.40589			
	0.40574						0.39550	10.646	
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
116 Tetrachloroethene	+++++	0.42050	0.41560	0.57799	0.53901	0.52339			
	0.51456						0.49851	13.243	
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
119 2-Hexanone	+++++	+++++	0.47096	0.70400	0.67446	0.67541			
	0.67389						0.63974	14.882	
120 Dibromochloromethane	+++++	0.50410	0.49260	0.73063	0.69156	0.68450			
	0.68937						0.63213	16.609	
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	

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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
122 1,2-Dibromoethane	0.90163	0.64129	0.50643	0.69722	0.66483	0.64559	0.64724	0.67203	17.510
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	0.75767	0.78381	1.08644	1.03882	1.00762	0.99445	0.94480	14.685
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl Benzene	+++++	0.56466	0.40914	0.62727	0.57121	0.55607	0.55068	0.54651	13.306
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.59333	0.52984	0.76794	0.73588	0.70608	0.69104	0.67068	13.535
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.62579	0.54244	0.71056	0.68755	0.65672	0.64298	0.64434	9.086

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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	1.46488	0.75646	0.75183	1.15004	1.08301	1.05129		
	1.05369						1.04446	23.390
134 Bromoform	+++++	0.41038	0.44174	0.63507	0.61297	0.62115		
	0.60588						0.55453	18.119
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
136 Cumene	2.90313	1.58260	1.60776	2.20582	2.05139	2.01897		
	1.96173						2.04734	21.614
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.75754	0.75244	0.98398	0.93716	0.91825		
	0.89915						0.87475	11.085
142 Propylbenzene	+++++	1.87135	1.80222	2.48014	2.35043	2.33106		
	2.23794						2.17886	12.707
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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							
144 4-Ethyltoluene	+++++	1.36491	1.66895	2.34028	2.18896	2.18205		
	2.10577						1.97515	19.012
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.36991	1.57754	2.07878	1.95625	1.92091		
	1.84410						1.79125	14.827
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	1.09192	1.33787	1.67663	1.60041	1.58632		
	1.55372						1.47448	14.875
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
Cal Date : 18-Jan-2008 11:49 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	+++++	0.76937	0.88821	1.05788	1.03801	1.01728		
	0.99594						0.96112	11.560
156 1,4-Dichlorobenzene	+++++	0.97719	0.96179	1.36913	1.28948	1.29287		
	1.22866						1.18652	14.664
157 alpha-Chlorotoluene	1.92111	0.99934	1.13264	1.82753	1.89345	1.93595		
	1.90650						1.65950	24.628
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
159 1,2-Dichlorobenzene	+++++	0.93074	0.88655	1.06239	1.03359	1.03631		
	0.98677						0.98939	6.930
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	0.80050	0.75103	0.71583	0.71675		
	0.71504						0.73983	5.025

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
Cal Date : 18-Jan-2008 11:49 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	+++++	+++++	0.59163	0.59874	0.58367	0.57583		
	0.57380						0.58473	1.801
165 Naphthalene	+++++	+++++	2.71745	2.81347	2.89641	2.97628		
	2.05634						2.69199	13.675
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.51169	1.59441	1.56515	1.61182	1.60658		
	1.71235						1.60033	4.131
$ 107 Toluene-d8	+++++	0.93975	0.96010	0.96118	0.96963	0.94670		
	0.94964						0.95450	1.154
$ 138 Bromofluorobenzene	+++++	0.57142	0.60316	0.58982	0.58245	0.59112		
	0.61276						0.59179	2.478

Calibration History

Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Start Cal Date: 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
17-JAN-2008 13:25	AFCEElow	/chem/msd5.i/5-17jan.b/5011708.d
Cal Level: 2 , Cal Amount: 0.50000		
17-JAN-2008 13:52	AT04Low+ENSR	/chem/msd5.i/5-17jan.b/5011709.d
Cal Level: 3 , Cal Amount: 2.00000		
17-JAN-2008 17:51	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011716.d
Cal Level: 4 , Cal Amount: 25.00000		
17-JAN-2008 14:47	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011711.d
Cal Level: 5 , Cal Amount: 50.00000		
17-JAN-2008 15:15	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011712.d
Cal Level: 6 , Cal Amount: 100.00000		
17-JAN-2008 15:43	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011713.d
Cal Level: 7 , Cal Amount: 200.00000		
17-JAN-2008 16:16	AT04ENSR	/chem/msd5.i/5-17jan.b/5011714.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000
17-JAN-2008 15:15 | AT04MDL+ENSR | /chem/msd5.i/5-17jan.b/5011712.d
Ccal Level: 5 , Ccal Amount: 50.000
17-JAN-2008 15:15 | AT04MDL+ENSR | /chem/msd5.i/5-17jan.b/5011712a.d

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 1/17/2008. As noted on the accompanying analytical run logs, the following point calibration level 3 was re-analyzed due to:

a. unacceptable integration of Ethanol

The following compounds used 0.2 as the lowest calibration concentration:
Benzene, Chloroform, Styrene, Cumene, alpha-Chlorotoluene, 4-methyl-2-pentanone, and 1,2-Dibromomethane

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.93
75	30.0 – 60.0% of mass 95	48.03
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.95
173	Less than 2.0% of mass 174	(1.13)[1]
174	Greater than 50.0% of mass 95	64.26
175	5.0 – 9.0% of mass 174	(7.72)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.11)[1]
177	5.0 – 9.0% of mass 176	(6.61)[2]

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

Verify 176/174 m/z Ratio: 1005912 / 1046577 x 100 = 96.11%

BFB Injection Date: 1/17/08

BFB Injection Time: 1225

BFB File ID: 5011706

Tekmar Purge Flow: 12.8 mL/min

Vacuum: 6.52 x 10^{-6} torr

IS/S Std.#:	1541-8	Exp. Date: 4-9-08
BCM	230627	
1,4-DFB	903162	
CB-d5	808795	

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

NOAH Cart #: N/A **File #:** N/A

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 875733\ )}{(\ 903162\ )} \times \frac{(\ 25.0\ )}{(\ 0.95450\ )} =$ 25.396

Reported Result 25.396

File ID:	5011712
Compound:	toluene-d8
Initials:	CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5011706	BFB Tune Check	1476-65	50mg	2mL	1.00	1/17/08	1225	CB	
2	✓	07	System Blank	12941	Humid	200mL			1250	CB	
3	✓	08	ICAL Level 1 (200 ppbv)	1576-198	0.2ppbv	0.2mL			1325	CB	tl4q1179
4	✓	09	2		0.5 ppbv	0.5mL			1352	CB	
5	X	10	3		2 ppbv	2mL			1419	CB	
6	✓	11	4		25 ppbv	25mL			1447	CB	
7	✓	12	5		50 ppbv	50mL			1515	CB	CCV
8	✓	13	6		100 ppbv	100mL			1543	CB	
9	✓	14	7		200 ppbv	200mL	↓	↓	1616	CB	↓

Signature

1/17/08
Date

0052

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	5011715	System Blank	12941	Humid	200mL	1.00	1/17/08	1709	KR	~~tl4~~ CB 1/18/08
11	✓	16	ICAL level 3	1576-198	2ppbv	2mL	↓	↓	1751	KR	tl4g117a
12	✓	17	System Blank	12941	Humid	200mL	↓	↓	2007	KR	
13	✓	18	LCS (200ppbv)	1576-172	50ppbv	50mL	↓	↓	2054	KR	ICAL LCS
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

0053

Comments:

Flow controller SIN #AA920318 Actual: 25.1 mL/min

NIST Flowmeter SIN #200-7744 Nominal: 22.6 mL/min

exp 8/31/08 CB 1/18/08

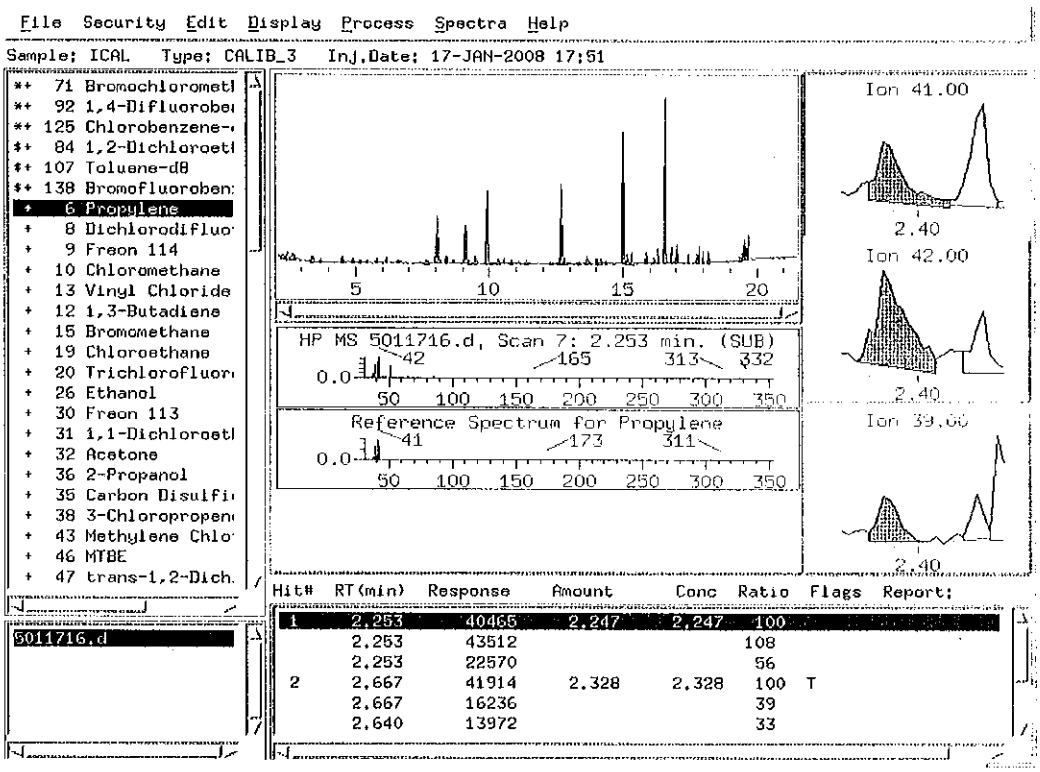
CB 1/18/08

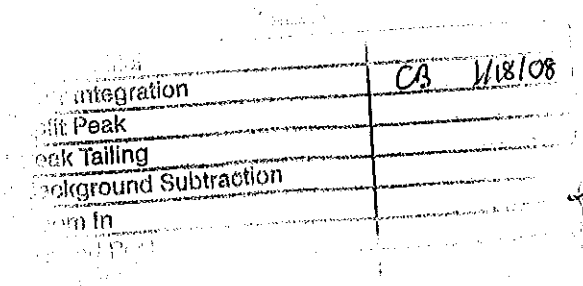
Signature

1/18/08
Date

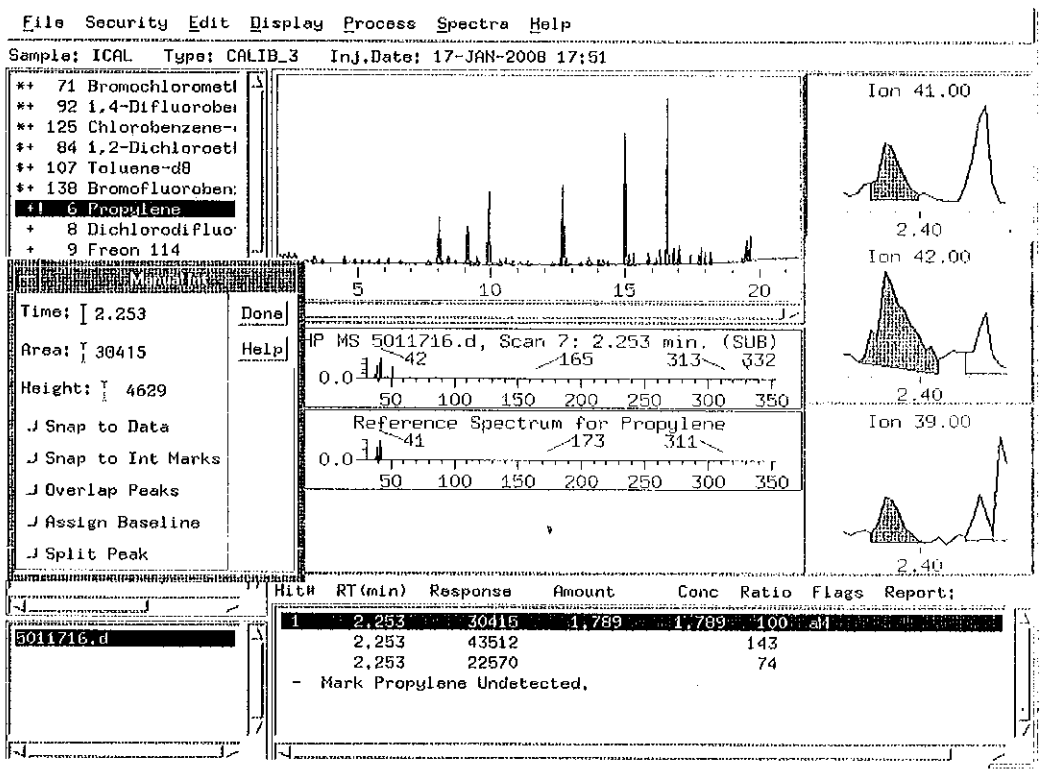
Integration	CB 1/18/08
Split Peak	
Peak Tailing	
Background Subtraction	
Manual fn	

Before




CB 1/18/08
Integration
Split Peak
Peak Tailing
Background Subtraction
fn

After


File Security Edit Display Process Spectra Help
Sample: ICAL Type: CALIB_3 Inj.Date: 17-JAN-2008 17:51
** 71 Bromochlorometl
** 92 1,4-Difluorobe
** 125 Chlorobenzene-
$+ 84 1,2-Dichloroetl
$+ 107 Toluene-d8
$+ 138 Bromofluoroben
+! 6 Propylene
+ 8 Dichlorodifluo
+ 9 Freon 114
Time: 2.253
Area: 30415
Height: 4629
Done
Help
Snap to Data
Snap to Int Marks
Overlap Peaks
Assign Baseline
Split Peak
IP MS 5011716.d, Scan 7: 2.253 min. (SUB)
Reference Spectrum for Propylene
Ion 41.00
Ion 42.00
Ion 39.00
2.40
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 2.253 30415 1.789 1.789 100 aM
2.253 43512 143
2.253 22570 74
- Mark Propylene Undetected.
5011716.d

Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15 Low Level
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011718.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 17-JAN-2008 20:54
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1576-172
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 17-Jan-2008 21:35 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 17:51 Cal File: 5011716.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	256121	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	202271			48.81- 108.81	78.97
8.031	8.031 (1.000)	49	570258			199.42- 259.42	222.65
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	989988	25.0000		80.00- 120.00	100.00
9.911	9.912 (1.000)	88	166515			0.00- 46.40	16.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	868758	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	506154			0.00- 30.00	58.26
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	394120	24.0388	24.039	80.00- 120.00	100.00
9.110	9.110 (1.130)	67	210326			0.00- 30.00	53.37
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.676	12.676 (1.279)	98	943366	24.9582	24.958	80.00- 120.00	100.00
12.676	12.676 (1.279)	70	96030			0.00- 30.00	10.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.676	12.676 (1.279)	100	646977			0.00- 30.00	68.58
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	514359	25.0116	25.012	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	732020			113.24- 173.24	142.32
16.575	16.575 (1.105)	176	502411			67.29- 127.29	97.68
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	813520	41.2728	41.273	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	551164			0.00- 30.00	67.75
2.280	2.280 (0.283)	39	569516			0.00- 30.00	70.01
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.336 (0.290)	85	1271825	42.5586	42.559	80.00- 120.00	100.00
2.335	2.336 (0.290)	87	414451			0.00- 30.00	32.59
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1107055	42.8047	42.805	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	346306			0.74- 60.74	31.28
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1009576	42.8550	42.855	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	304021			0.00- 30.00	30.11
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.750 (0.345)	62	887775	44.5012	44.501	80.00- 120.00	100.00
2.778	2.750 (0.345)	64	270312			0.00- 30.00	30.45
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	832472	40.8077	40.808	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	911056			0.00- 30.00	109.44
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	491506	44.1456	44.146	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	478362			64.36- 124.36	97.33
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	390441	40.6105	40.610	80.00- 120.00	100.00
3.386	3.386 (0.420)	49	128210			0.00- 30.00	32.84
3.386	3.386 (0.420)	66	117392			0.00- 30.00	30.07
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1489616	44.8276	44.828	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	962638			34.16- 94.16	64.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	355921	43.3325	43.332	80.00- 120.00	100.00
4.077	4.077 (0.506)	43	71358			0.00- 30.00	20.05
4.077	4.077 (0.506)	46	136578			0.00- 30.00	38.37
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	935916	50.0956	50.096	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	596177			34.46- 94.46	63.70
4.520	4.520 (0.561)	101	1222582			102.42- 162.42	130.63
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.547	4.548 (0.564)	61	1329535	50.5778	50.578	80.00- 120.00	100.00
4.547	4.548 (0.564)	96	633242			17.45- 77.45	47.63
4.547	4.548 (0.564)	98	407441			0.00- 59.59	30.65
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	433219	42.8355	42.836	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1421165			0.00- 30.00	328.05
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1805899	45.0637	45.064	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	359863			0.00- 30.00	19.93
4.907	4.907 (0.609)	59	61623			0.00- 30.00	3.41
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.879 (0.609)	76	1718199	45.1711	45.171	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	285622	42.9761	42.976	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	1321382			0.00- 30.00	462.63
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1092685	47.6046	47.604	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	524879			16.65- 76.65	48.04
5.432	5.432 (0.674)	51	335766			0.00- 30.00	30.73
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	782772	35.8009	35.801	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	264059			2.93- 62.93	33.73
5.764	5.764 (0.715)	41	265174			0.00- 30.00	33.88
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	624472	44.2585	44.258	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1191054			161.29- 221.29	190.73
5.819	5.819 (0.722)	98	394082			0.00- 30.00	63.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1541727	43.8115	43.812	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1097315			0.00- 30.00	71.17
6.151	6.151 (0.763)	86	187222			0.00- 30.00	12.14
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.594 (0.818)	63	1327323	46.1226	46.122	80.00- 120.00	100.00
6.593	6.594 (0.818)	65	399940			1.33- 61.33	30.13
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	286680	40.8615	40.861	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	1890654			613.01- 673.01	659.50
7.644	7.644 (0.949)	57	129964			0.00- 30.00	45.33
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	997268	43.8550	43.855	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	577527			27.71- 87.71	57.91
7.617	7.617 (0.945)	98	366497			6.61- 66.61	36.75
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1142030	39.4559	39.456	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	274989			0.00- 53.13	24.08
8.031	8.031 (0.997)	72	279446			0.00- 30.00	24.47
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1045040	43.2132	43.213	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	676880			35.04- 95.04	64.77
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	1089295	43.4432	43.443	80.00- 120.00	100.00
8.418	8.418 (1.045)	99	692936			33.38- 93.38	63.61
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	806848	43.0388	43.039	80.00- 120.00	100.00
8.391	8.391 (1.041)	56	1498369			154.90- 214.90	185.71
8.391	8.391 (1.041)	41	839505			71.49- 131.49	104.05
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.151 (0.763)	86	187222	42.9598	42.960	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1097315			0.00- 30.00	586.10
6.151	6.151 (0.763)	42	535393			0.00- 30.00	285.97
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1021276	43.6218	43.622	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1056154			72.64- 132.64	103.42

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	4330489	44.0278	44.028	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	1437833			0.00- 30.00	33.20
9.082	9.082 (1.127)	41	1150136			0.00- 30.00	26.56
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1673834	45.0886	45.089	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	389554			0.00- 30.00	23.27
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.248 (0.933)	62	912805	46.4301	46.430	80.00- 120.00	100.00
9.275	9.248 (0.936)	64	279057			0.00- 30.00	30.57
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	208481	43.3964	43.396	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	1799304			0.00- 30.00	863.05
9.469	9.469 (0.955)	71	625266			0.00- 30.00	299.92
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	673816	43.8952	43.895	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	699431			70.26- 130.26	103.80
10.326	10.326 (1.042)	97	432103			31.23- 91.23	64.13
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	694003	42.8841	42.884	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	512653			44.39- 104.39	73.87
10.824	10.824 (1.092)	41	491468			40.61- 100.61	70.82
99 1,4-Dioxane					CAS #: 123-91-1		
11.045	11.045 (1.114)	88	374321	40.7594	40.759	80.00- 120.00	100.00
11.045	11.045 (1.114)	58	394002			72.11- 132.11	105.26
11.045	11.045 (1.114)	57	121481			0.00- 30.00	32.45
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.405 (1.151)	83	1019195	43.8171	43.817	80.00- 120.00	100.00
11.404	11.405 (1.151)	85	641278			35.07- 95.07	62.92
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.289	12.289 (1.240)	75	803565	46.1166	46.117	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	253377			2.12- 62.12	31.53
12.289	12.289 (1.240)	39	613206			49.06- 109.06	76.31
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	701747	40.0102	40.010	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2012887			0.00- 30.00	286.84
12.593	12.593 (1.271)	85	218400			0.00- 30.00	31.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1836831	46.0162	46.016	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1094681			29.46- 89.46	59.60
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	786976	48.2534	48.253	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	249608			1.57- 61.57	31.72
13.340	13.340 (0.889)	39	576718			42.45- 102.45	73.28
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	591496	43.0377	43.038	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	362901			31.96- 91.96	61.35
13.644	13.644 (0.910)	83	490441			54.01- 114.01	82.92
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	756253	43.6551	43.655	80.00- 120.00	100.00
13.672	13.672 (0.912)	129	613990			50.41- 110.41	81.19
13.672	13.672 (0.912)	131	592503			48.45- 108.45	78.35
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	908375	40.8602	40.860	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	1894008			177.96- 237.96	208.51
14.004	14.004 (0.934)	100	149723			0.00- 30.00	16.48
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	969265	44.1245	44.124	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	724838			0.00- 30.00	74.78
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.335 (0.958)	107	903382	41.0188	41.019	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	838510			63.93- 123.93	92.82
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1463939	44.5885	44.588	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	469324			3.06- 63.06	32.06
15.027	15.027 (1.002)	77	872055			29.85- 89.85	59.57
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	793268	41.7702	41.770	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2460522			0.00- 30.00	310.18
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	984218	42.2294	42.229	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	1981494			0.00- 30.00	201.33
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	926660	41.3853	41.385	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	1961779			181.03- 241.03	211.70
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1513923	41.7113	41.711	80.00- 120.00	100.00
15.884	15.884 (1.059)	78	773739			20.92- 80.92	51.11
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	850887	44.1558	44.156	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	438432			21.58- 81.58	51.53
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1251121	41.1580	41.158	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	814893			34.08- 94.08	65.13
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2979763	43.4132	43.413	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	871355			0.00- 59.52	29.24
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2606191	41.8689	41.869	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1263506			0.00- 30.00	48.48
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2181231	42.5701	42.570	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1009566			16.93- 76.93	46.28
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1391378	41.6591	41.659	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	868423			0.00- 30.00	62.41
17.764	17.764 (1.184)	111	589394			0.00- 30.00	42.36
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1729137	41.9369	41.937	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1107802			0.00- 30.00	64.07
17.847	17.847 (1.190)	111	748840			0.00- 30.00	43.31
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2561630	44.4201	44.420	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	533871			0.00- 30.00	20.84
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1421157	41.3347	41.335	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	897993			32.68- 92.68	63.19
18.206	18.206 (1.214)	111	589318			11.30- 71.30	41.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.478 (1.300)	180	982881	38.2306	38.231	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	943800			65.42- 125.42	96.02
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	791639	38.9594	38.959	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	496387			33.29- 93.29	62.70
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3232458	42.6919	42.692	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	760000			0.00- 30.00	23.51
16.824	16.824 (1.122)	105	127817			0.00- 30.00	3.95
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2933438	41.2313	41.231	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	768072			0.00- 30.00	26.18
16.326	16.326 (1.088)	51	419700			0.00- 30.00	14.31
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	3452276	36.9040	36.904	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	442738			0.00- 30.00	12.82
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1355033	41.6177	41.618	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	842480			0.00- 30.00	62.17
3.414	3.414 (0.424)	72	72567			0.00- 30.00	5.36
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	222208	41.2102	41.210	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	1797075			0.00- 30.00	808.74
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1047261	43.0198	43.020	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	502407			0.00- 30.00	47.97
10.547	10.547 (1.064)	55	1268551			0.00- 30.00	121.13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5011718.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	256121	11.05
92 1,4-Difluorobenze	903162	541897	1264427	989988	9.61
125 Chlorobenzene-d5	808795	485277	1132313	868758	7.41

		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: 17-Jan-2008 21:37

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-17jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: kr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 50ppbv (200ppbv)

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8	Dichlorodifluorome	50.000	42.559	85.12	70-130
9	Freon 114	50.000	42.805	85.61	70-130
10	Chloromethane	50.000	42.855	85.71	70-130
13	Vinyl Chloride	50.000	44.501	89.00	70-130
12	1,3-Butadiene	50.000	40.808	81.62	60-140
15	Bromomethane	50.000	44.146	88.29	70-130
19	Chloroethane	50.000	40.610	81.22	70-130
20	Trichlorofluoromet	50.000	44.828	89.66	70-130
26	Ethanol	50.000	43.332	86.67	60-140
30	Freon 113	50.000	50.096	100.19	70-130
31	1,1-Dichloroethene	50.000	50.578	101.16	70-130
35	Carbon Disulfide	50.000	45.171	90.34	60-140
32	Acetone	50.000	42.836	85.67	60-140
36	2-Propanol	50.000	45.064	90.13	60-140
38	3-Chloropropene	50.000	42.976	85.95	60-140
43	Methylene Chloride	50.000	47.604	95.21	70-130
46	MTBE	50.000	35.801	71.60	60-140
47	trans-1,2-Dichloro	50.000	44.258	88.52	60-140
51	Hexane	50.000	43.812	87.62	60-140
55	1,1-Dichloroethane	50.000	46.122	92.25	70-130
66	cis-1,2-Dichloroet	50.000	43.855	87.71	70-130
67	2-Butanone	50.000	40.861	81.72	60-140
70	Tetrahydrofuran	50.000	39.456	78.91	60-140
72	Chloroform	50.000	43.213	86.43	70-130
74	Cyclohexane	50.000	43.039	86.08	60-140
75	1,1,1-Trichloroeth	50.000	43.443	86.89	70-130
56	Vinyl Acetate	50.000	42.960	85.92	60-140
77	Carbon Tetrachlori	50.000	43.622	87.24	70-130
80	2,2,4-Trimethylpen	50.000	44.028	88.06	60-140
81	Benzene	50.000	45.089	90.18	70-130
85	1,2-Dichloroethane	50.000	46.430	92.86	70-130
90	Heptane	50.000	43.396	86.79	60-140
93	Trichloroethene	50.000	43.895	87.79	70-130

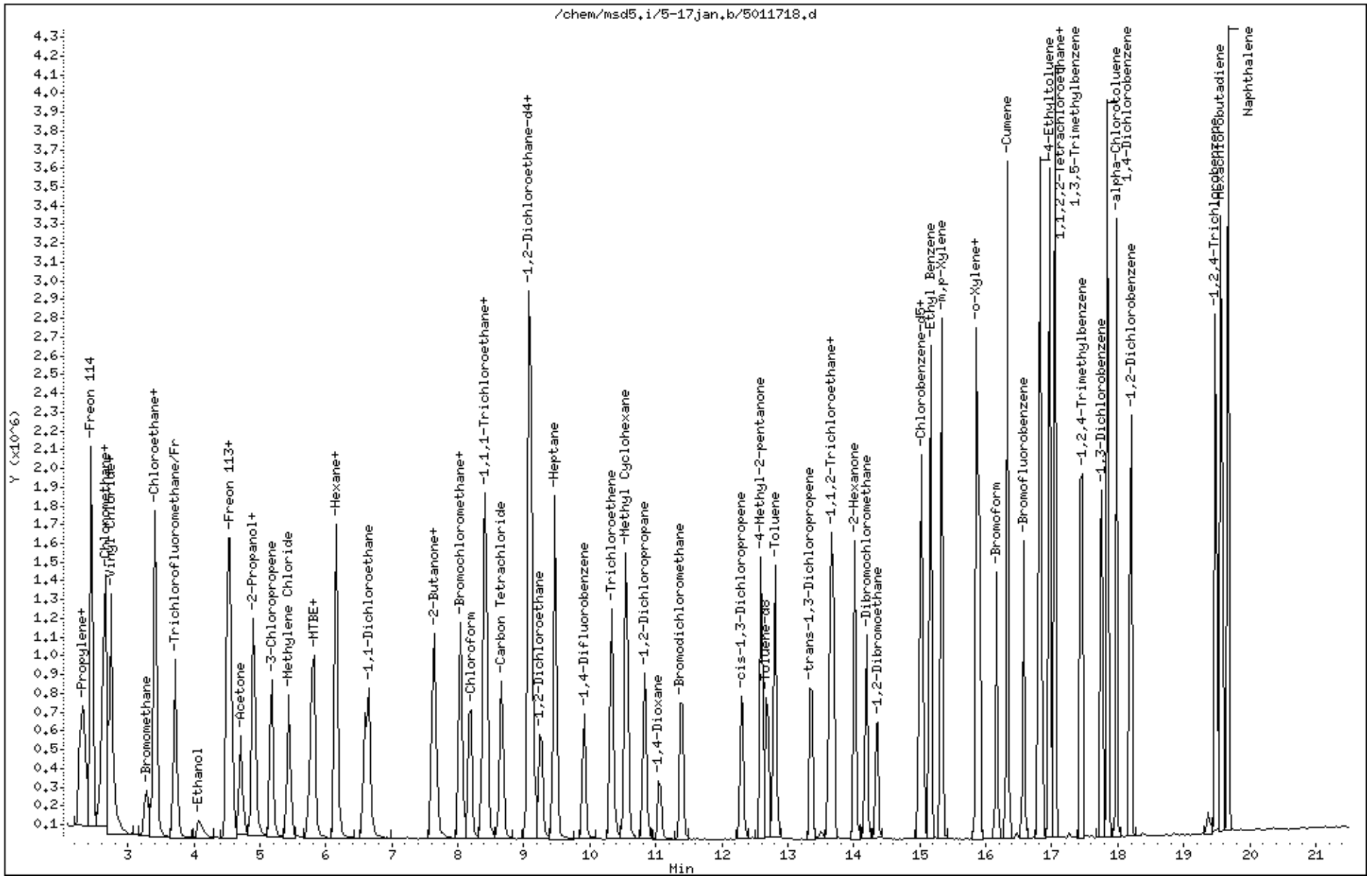
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	42.884	85.77	70-130
99 1,4-Dioxane	50.000	40.759	81.52	60-140
100 Bromodichlorometha	50.000	43.817	87.63	60-140
103 cis-1,3-Dichloropr	50.000	46.117	92.23	70-130
106 4-Methyl-2-pentano	50.000	40.010	80.02	60-140
108 Toluene	50.000	46.016	92.03	70-130
113 trans-1,3-Dichloro	50.000	48.253	96.51	70-130
114 1,1,2-Trichloroeth	50.000	43.038	86.08	70-130
116 Tetrachloroethene	50.000	43.655	87.31	70-130
119 2-Hexanone	50.000	40.860	81.72	60-140
120 Dibromochlorometha	50.000	44.124	88.25	60-140
122 1,2-Dibromoethane	50.000	41.019	82.04	70-130
126 Chlorobenzene	50.000	44.588	89.18	70-130
128 Ethyl Benzene	50.000	41.770	83.54	70-130
130 m,p-Xylene	50.000	42.229	84.46	70-130
132 o-Xylene	50.000	41.385	82.77	70-130
133 Styrene	50.000	41.711	83.42	70-130
134 Bromoform	50.000	44.156	88.31	60-140
136 Cumene	50.000	41.231	82.46	60-140
141 1,1,2,2-Tetrachlor	50.000	41.158	82.32	70-130
142 Propylbenzene	50.000	42.692	85.38	60-140
144 4-Ethyltoluene	50.000	43.413	86.83	60-140
147 1,3,5-Trimethylben	50.000	41.869	83.74	70-130
152 1,2,4-Trimethylben	50.000	42.570	85.14	70-130
155 1,3-Dichlorobenzen	50.000	41.659	83.32	70-130
156 1,4-Dichlorobenzen	50.000	41.937	83.87	70-130
157 alpha-Chlorotoluen	50.000	44.420	88.84	70-130
159 1,2-Dichlorobenzen	50.000	41.335	82.67	70-130
163 1,2,4-Trichloroben	50.000	38.231	76.46	70-130
164 Hexachlorobutadien	50.000	38.959	77.92	70-130
6 Propylene	50.000	41.273	82.55	70-130
165 Naphthalene	50.000	36.904	73.81	60-140
11 Butane	50.000	41.210	82.42	70-130
17 Isopentane	50.000	41.618	83.24	70-130
94 Methyl Cyclohexane	50.000	43.020	86.04	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.039	96.16	70-130
$ 107 Toluene-d8	25.000	24.958	99.83	70-130
$ 138 Bromofluorobenzene	25.000	25.012	100.05	70-130

Data File: /chem/msd5.i/5-17jan.b/5011718.d
Date : 17-JAN-2008 20:54
Client ID: LCS-1
Sample Info: 50mL #1576-172

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011708.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 17-JAN-2008 13:25
Operator : cb Inst ID: msd5.i
Smp Info : 0.2mL #1576-198
Misc Info : 0.2ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 18-Jan-2008 11:49 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.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	227450	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	180249			48.81- 108.81		79.25
8.031	8.031 (1.000)	49	533624			199.42- 259.42		234.61
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	893796	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	149735			0.00- 46.40		16.75
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	774293	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	449059			0.00- 30.00		58.00
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	356258	25.0000	24.468	70.00- 130.00		100.00
9.110	9.110 (1.130)	67	168093			0.00- 30.00		47.18
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.677	12.677 (1.279)	98	849641	25.0000	24.898	70.00- 130.00		100.00
12.677	12.677 (1.279)	70	90110			0.00- 30.00		10.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.677 (1.279)	100	567228			0.00- 30.00	66.76
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	447263	25.0000	24.402	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	654294			113.24- 173.24	146.29
16.575	16.575 (1.105)	176	435618			67.29- 127.29	97.40
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	7955	0.20000	0.3302	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	4284			35.04- 95.04	53.85
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	10721	0.20000	0.2946	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	3359			0.00- 30.00	31.33
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	9074	0.20000	0.2805	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	4228			20.92- 80.92	46.59
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	17983	0.20000	0.2836	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5814			0.00- 30.00	32.33
16.326	16.326 (1.088)	51	2851			0.00- 30.00	15.85
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	11900	0.20000	0.2315	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	2269			0.00- 30.00	19.07
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	4842	0.20000	0.3058	70.00- 130.00	100.00(a)
12.594	12.594 (1.271)	43	17610			0.00- 30.00	363.69
12.621	12.621 (1.273)	85	1385			0.00- 30.00	28.60
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	5585	0.20000	0.2683	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	4182			63.93- 123.93	74.88

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: 5011708.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 0.2ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	227450	-1.38
92 1,4-Difluorobenze	903162	541897	1264427	893796	-1.04
125 Chlorobenzene-d5	808795	485277	1132313	774293	-4.27

		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/5-17jan.b/5011708.d

Date : 17-JAN-2008 13:25

Client ID: Level 1

Sample Info: 0.2mL #1576-198

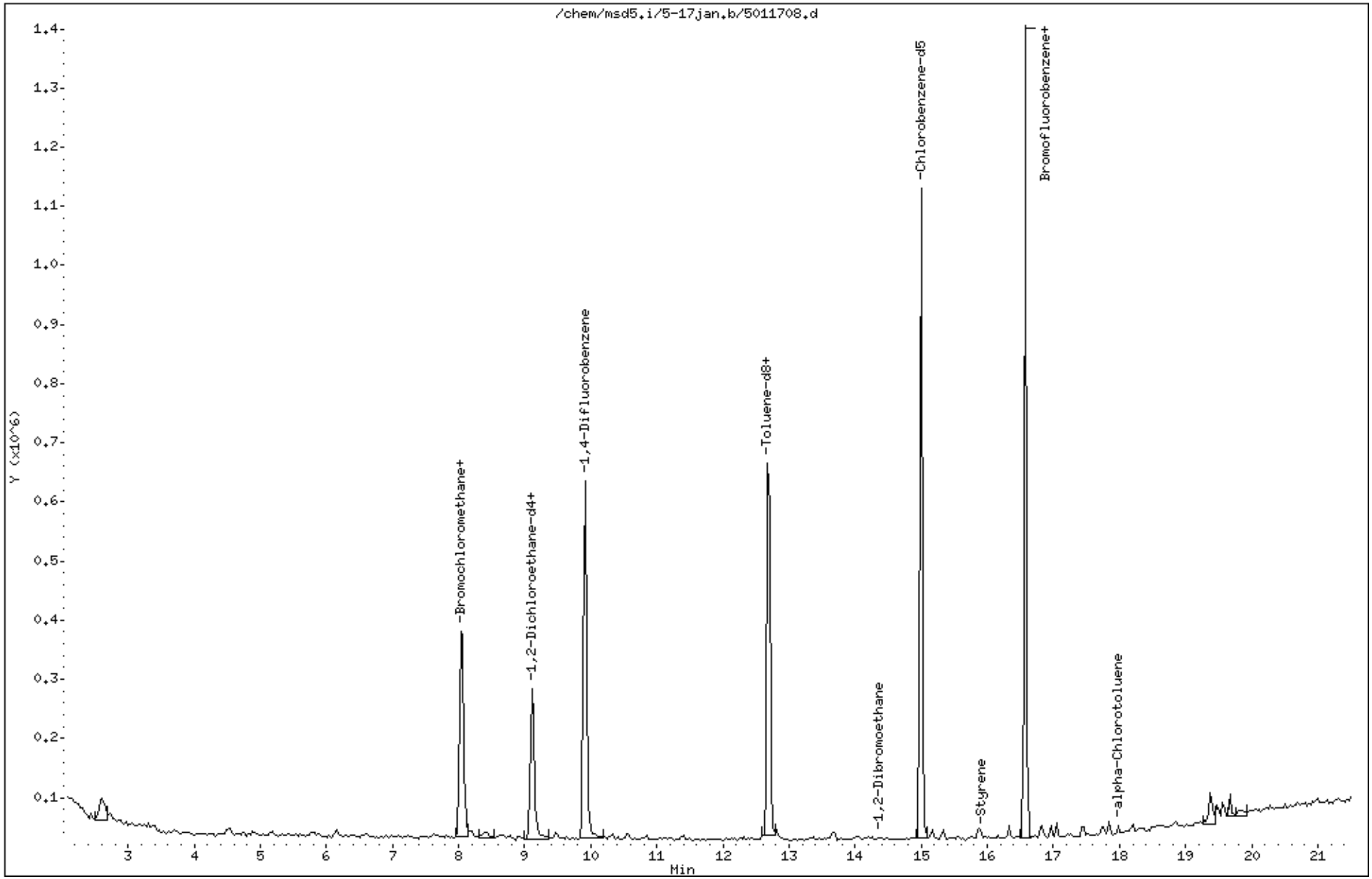
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0072



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011709.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 17-JAN-2008 13:52
Operator : cb Inst ID: msd5.i
Smp Info : 0.5mL #1576-198
Misc Info : 0.5ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 13:52 Cal File: 5011709.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	229339	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	174456			48.81- 108.81	76.07
8.031	8.031 (1.000)	49	535660			199.42- 259.42	233.57
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	887000	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	140400			0.00- 46.40	15.83
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	790123	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	441720			0.00- 30.00	55.91
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	346689	25.0000	23.615	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	165251			0.00- 30.00	47.67
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.677	12.677 (1.279)	98	833556	25.0000	24.614	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	94353			0.00- 30.00	11.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.677 (1.279)	100	558497			0.00- 30.00	67.00
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	451491	25.0000	24.139	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	651192			113.24- 173.24	144.23
16.575	16.575 (1.105)	176	438898			67.29- 127.29	97.21
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	10620	0.50000	0.3969	70.00- 130.00	100.00(a)
2.336	2.336 (0.290)	87	4479			0.00- 30.00	42.18
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	9977	0.50000	0.4308	70.00- 130.00	100.00(a)
2.446	2.446 (0.304)	137	3488			0.74- 60.74	34.96
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	8903	0.50000	0.4984	70.00- 130.00	100.00(a)
2.778	2.778 (0.345)	64	3449			0.00- 30.00	38.74
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	9026	0.50000	0.4941	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	39	18691			0.00- 30.00	207.08
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	3831	0.50000	0.3843	70.00- 130.00	100.00(a)
3.276	3.276 (0.406)	96	3954			64.36- 124.36	103.21
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	4193	0.50000	0.4870	70.00- 130.00	100.00(a)
3.386	3.386 (0.420)	49	1750			0.00- 30.00	41.74
3.386	3.386 (0.420)	66	2669			0.00- 30.00	63.65
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	11583	0.50000	0.3893	70.00- 130.00	100.00(a)
3.718	3.718 (0.461)	103	8895			34.16- 94.16	76.79
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	6626	0.50000	0.3961	70.00- 130.00	100.00(a)
4.520	4.520 (0.561)	153	5303			34.46- 94.46	80.03
4.520	4.520 (0.561)	101	11148			102.42- 162.42	168.25
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	8890	0.50000	0.3777	70.00- 130.00	100.00(a)
4.575	4.575 (0.568)	96	5917			17.45- 77.45	66.56
4.548	4.548 (0.564)	98	6637			0.00- 59.59	74.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.879	4.879 (0.605)	76	13165	0.50000	0.3865	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	9097	0.50000	0.4426	70.00- 130.00	100.00(a)
5.432	5.432 (0.674)	84	5763			16.65- 76.65	63.35
5.432	5.432 (0.674)	51	3354			0.00- 30.00	36.87
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	10279	0.50000	0.5250	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	3398			2.93- 62.93	33.06
5.764	5.764 (0.715)	41	2310			0.00- 30.00	22.47
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	5329	0.50000	0.4218	70.00- 130.00	100.00(a)
5.819	5.819 (0.722)	61	9868			161.29- 221.29	185.18
5.792	5.792 (0.719)	98	5550			0.00- 30.00	104.15
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	14136	0.50000	0.4486	70.00- 130.00	100.00(a)
6.151	6.151 (0.763)	43	11997			0.00- 30.00	84.87
6.151	6.151 (0.763)	86	2704			0.00- 30.00	19.13
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	10812	0.50000	0.4196	70.00- 130.00	100.00(a)
6.594	6.594 (0.818)	65	4037			1.33- 61.33	37.34
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.955)	72	3137	0.50000	0.4993	70.00- 130.00	100.00(a)
7.672	7.672 (0.952)	43	26341			613.01- 673.01	839.69
7.672	7.672 (0.952)	57	2520			0.00- 30.00	80.33
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	9144	0.50000	0.4491	70.00- 130.00	100.00(a)
7.617	7.617 (0.945)	96	6259			27.71- 87.71	68.45
7.644	7.644 (0.949)	98	3729			6.61- 66.61	40.78
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	15823	0.50000	0.6105	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	4212			0.00- 53.13	26.62
8.059	8.059 (1.000)	72	3155			0.00- 30.00	19.94
72 Chloroform					CAS #: 67-66-3		
8.170	8.170 (1.014)	83	10243	0.50000	0.4730	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	5416			35.04- 95.04	52.88

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		
8.419	8.419 (1.045)	97	10140	0.50000	0.4516	70.00- 130.00	100.00(a)
8.419	8.419 (1.045)	99	5333			33.38- 93.38	52.59
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	8133	0.50000	0.4845	70.00- 130.00	100.00(a)
8.391	8.391 (1.041)	56	12828			154.90- 214.90	157.73
8.391	8.391 (1.041)	41	9386			71.49- 131.49	115.41
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	8917	0.50000	0.4253	70.00- 130.00	100.00(a)
8.667	8.667 (1.075)	117	10941			72.64- 132.64	122.70
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	37472	0.50000	0.4255	70.00- 130.00	100.00(a)
9.110	9.110 (1.130)	56	9666			0.00- 30.00	25.80
9.082	9.082 (1.127)	41	12242			0.00- 30.00	32.67
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	13835	0.50000	0.4159	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	4201			0.00- 30.00	30.37
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.248 (0.933)	62	6275	0.50000	0.3562	70.00- 130.00	100.00(a)
9.276	9.276 (0.936)	64	3960			0.00- 30.00	63.11
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1977	0.50000	0.4593	70.00- 130.00	100.00(a)
9.469	9.469 (0.955)	43	29896			0.00- 30.00	1512.19
9.469	9.469 (0.955)	71	6566			0.00- 30.00	332.12
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	5761	0.50000	0.4189	70.00- 130.00	100.00(a)
10.326	10.326 (1.042)	130	6556			70.26- 130.26	113.80
10.326	10.326 (1.042)	97	4104			31.23- 91.23	71.24
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	6802	0.50000	0.4691	70.00- 130.00	100.00(a)
10.852	10.852 (1.095)	62	4500			44.39- 104.39	66.16
10.824	10.824 (1.092)	41	10116			40.61- 100.61	148.72
100 Bromodichloromethane					CAS #: 75-27-4		
11.377	11.377 (1.148)	83	9814	0.50000	0.4709	70.00- 130.00	100.00(a)
11.405	11.405 (1.151)	85	7770			35.07- 95.07	79.17
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.289	12.289 (1.240)	75	5396	0.50000	0.3456	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.289	12.289 (1.240)	77	2077			2.12- 62.12	38.49
12.289	12.289 (1.240)	39	10158			49.06- 109.06	188.25
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	6448	0.50000	0.4103	70.00- 130.00	100.00(a)
12.594	12.594 (1.271)	43	16805			0.00- 30.00	260.62
12.594	12.594 (1.271)	85	2670			0.00- 30.00	41.41
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	14841	0.50000	0.4150	70.00- 130.00	100.00(a)
12.815	12.815 (1.293)	92	9333			29.46- 89.46	62.89
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	3792	0.50000	0.2556	70.00- 130.00	100.00(a)
13.340	13.340 (0.889)	77	2883			1.57- 61.57	76.03
13.340	13.340 (0.889)	39	5392			42.45- 102.45	142.19
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	5482	0.50000	0.4386	70.00- 130.00	100.00(a)
13.644	13.644 (0.910)	99	2835			31.96- 91.96	51.71
13.644	13.644 (0.910)	83	5695			54.01- 114.01	103.89
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	6645	0.50000	0.4218	70.00- 130.00	100.00(a)
13.672	13.672 (0.912)	129	7714			50.41- 110.41	116.09
13.700	13.700 (0.913)	131	6352			48.45- 108.45	95.59
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7966	0.50000	0.3987	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	7674			0.00- 30.00	96.33
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	10134	0.50000	0.5059	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	7523			63.93- 123.93	74.24
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	11973	0.50000	0.4010	70.00- 130.00	100.00(a)
15.054	15.054 (1.004)	114	4512			3.06- 63.06	37.68
15.027	15.027 (1.002)	77	14896			29.85- 89.85	124.41
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	8923	0.50000	0.5166	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	22411			0.00- 30.00	251.16
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	9376	0.50000	0.4423	70.00- 130.00	100.00(a)

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	21428			0.00- 30.00	228.54
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	9889	0.50000	0.4856	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	19214			181.03- 241.03	194.30
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	11954	0.50000	0.3621	70.00- 130.00	100.00(a)
15.884	15.884 (1.059)	78	8464			20.92- 80.92	70.80
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	6485	0.50000	0.3700	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	3916			21.58- 81.58	60.39
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	11971	0.50000	0.4330	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	8261			34.08- 94.08	69.01
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	21569	0.50000	0.3455	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	120	8727			0.00- 59.52	40.46
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	21648	0.50000	0.3824	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	10461			0.00- 30.00	48.32
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	17255	0.50000	0.3703	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	10884			16.93- 76.93	63.08
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	12158	0.50000	0.4002	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	8683			0.00- 30.00	71.42
17.764	17.764 (1.184)	111	5809			0.00- 30.00	47.78
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	15442	0.50000	0.4118	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	9960			0.00- 30.00	64.50
17.847	17.847 (1.190)	111	6845			0.00- 30.00	44.33
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	15792	0.50000	0.3011	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	3465			0.00- 30.00	21.94
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	14708	0.50000	0.4704	70.00- 130.00	100.00(a)

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	9541			32.68- 92.68	64.87
18.206	18.206 (1.214)	111	5030			11.30- 71.30	34.20
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	29572	0.50000	0.4294	70.00- 130.00	100.00(a)
16.824	16.824 (1.122)	120	6586			0.00- 30.00	22.27
16.852	16.852 (1.123)	105	1931			0.00- 30.00	6.53
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	25009	0.50000	0.3865	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	7120			0.00- 30.00	28.47
16.326	16.326 (1.088)	51	3984			0.00- 30.00	15.93
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	11251	0.50000	0.5158	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	5871			0.00- 30.00	52.18
10.548	10.548 (1.064)	55	11422			0.00- 30.00	101.52

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: 5011709.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 0.5ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	229339	-0.56
92 1,4-Difluorobenze	903162	541897	1264427	887000	-1.79
125 Chlorobenzene-d5	808795	485277	1132313	790123	-2.31

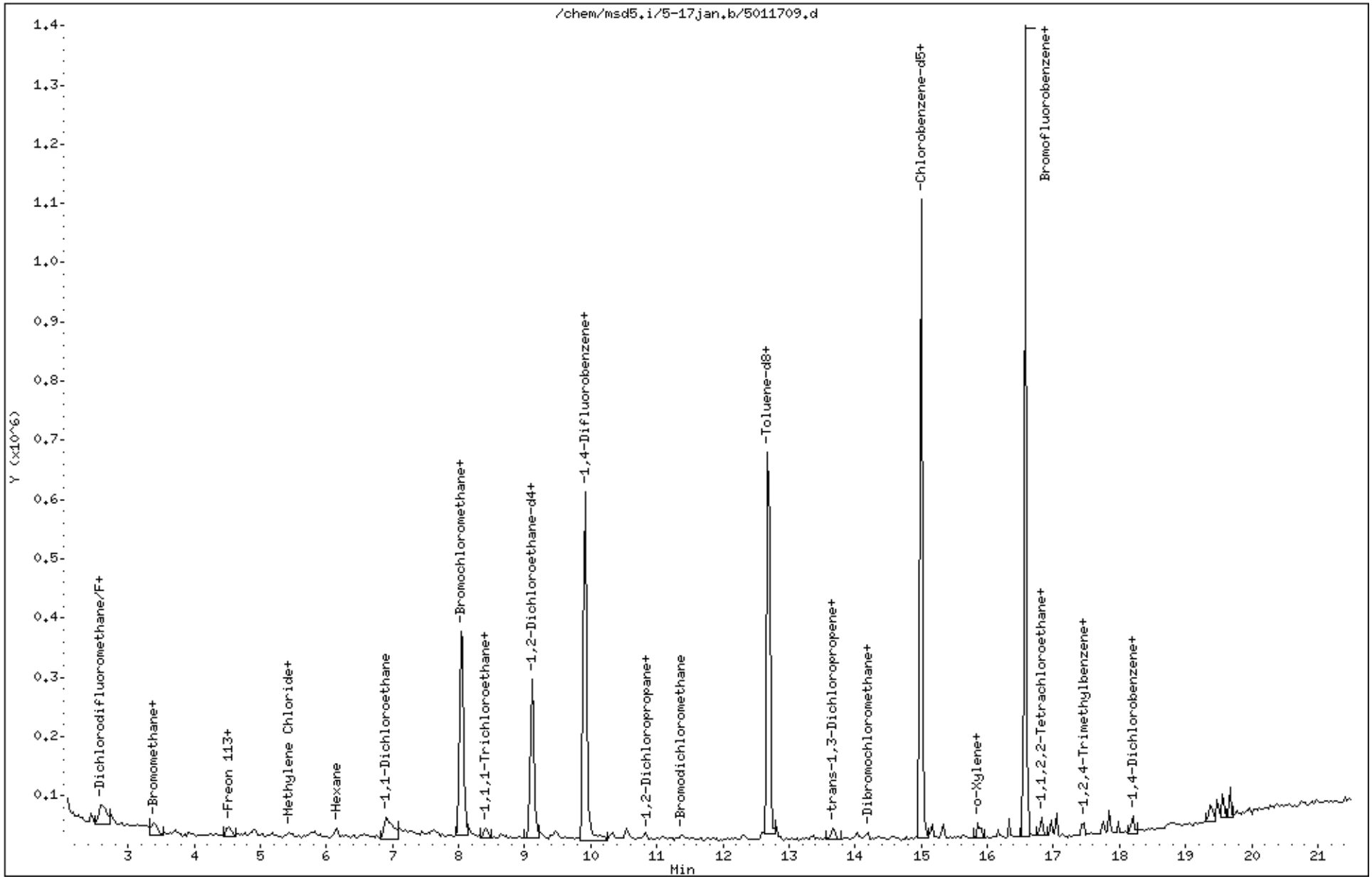
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd5.i/5-17jan.b/5011709.d
Date : 17-JAN-2008 13:52
Client ID: Level 2
Sample Info: 0.5mL #1576-198

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011716.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 17-JAN-2008 17:51
Operator : kr Inst ID: msd5.i
Smp Info : 2mL #1576-198
Misc Info : 2ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 18-Jan-2008 11:44 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 17:51 Cal File: 5011716.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	233992	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	190606			48.81- 108.81	81.46
8.031	8.031 (1.000)	49	554319			199.42- 259.42	236.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	927716	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	152778			0.00- 46.40	16.47
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	814449	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	467471			0.00- 30.00	57.40
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	373080	25.0000	24.908	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	179110			0.00- 30.00	48.01
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.677	12.677 (1.279)	98	890704	25.0000	25.147	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	100038			0.00- 30.00	11.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.677 (1.279)	100	608838			0.00- 30.00	68.35
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	491244	25.0000	25.480	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	686193			113.24- 173.24	139.68
16.575	16.575 (1.105)	176	457439			67.29- 127.29	93.12
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	30415	2.00000	1.789	70.00- 130.00	100.00(aM)
2.253	2.253 (0.280)	42	43512			0.00- 30.00	143.06
2.253	2.253 (0.280)	39	22570			0.00- 30.00	74.21
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	49809	2.00000	1.824	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	15944			0.00- 30.00	32.01
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	41503	2.00000	1.756	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	11729			0.74- 60.74	28.26
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	38012	2.00000	1.766	70.00- 130.00	100.00(a)
2.584	2.584 (0.321)	52	13451			0.00- 30.00	35.39
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	29151	2.00000	1.599	70.00- 130.00	100.00
2.723	2.723 (0.338)	64	10466			0.00- 30.00	35.90
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	36496	2.00000	1.958	70.00- 130.00	100.00
2.723	2.723 (0.338)	39	35087			0.00- 30.00	96.14
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	18396	2.00000	1.808	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	16090			64.36- 124.36	87.46
19 Chloroethane					CAS #: 75-00-3		
3.359	3.359 (0.417)	64	16863	2.00000	1.920	70.00- 130.00	100.00
3.359	3.359 (0.417)	49	5368			0.00- 30.00	31.83
3.359	3.359 (0.417)	66	6148			0.00- 30.00	36.46
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	50053	2.00000	1.649	70.00- 130.00	100.00
3.690	3.690 (0.458)	103	35212			34.16- 94.16	70.35

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	13174	2.00000	1.756	70.00- 130.00	100.00(a)
4.105	4.105 (0.509)	43	4374			0.00- 30.00	33.20
4.105	4.105 (0.509)	46	6282			0.00- 30.00	47.68
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	29412	2.00000	1.723	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	17251			34.46- 94.46	58.65
4.520	4.520 (0.561)	101	36592			102.42- 162.42	124.41
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	41001	2.00000	1.707	70.00- 130.00	100.00
4.548	4.548 (0.564)	96	20752			17.45- 77.45	50.61
4.548	4.548 (0.564)	98	13972			0.00- 59.59	34.08
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	16418	2.00000	1.777	70.00- 130.00	100.00(a)
4.714	4.714 (0.585)	43	43750			0.00- 30.00	266.48
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	55282	2.00000	1.510	70.00- 130.00	100.00(a)
4.907	4.907 (0.609)	43	18693			0.00- 30.00	33.81
4.935	4.935 (0.612)	59	1479			0.00- 30.00	2.68
35 Carbon Disulfide					CAS #: 75-15-0		
4.879	4.879 (0.605)	76	59878	2.00000	1.723	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	11032	2.00000	1.817	70.00- 130.00	100.00(a)
5.184	5.184 (0.643)	41	55136			0.00- 30.00	499.78
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	34194	2.00000	1.631	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	18173			16.65- 76.65	53.15
5.432	5.432 (0.674)	51	11079			0.00- 30.00	32.40
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	47455	2.00000	2.376	70.00- 130.00	100.00
5.737	5.737 (0.712)	57	16750			2.93- 62.93	35.30
5.764	5.764 (0.715)	41	16999			0.00- 30.00	35.82
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	22962	2.00000	1.781	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	37480			161.29- 221.29	163.23
5.819	5.819 (0.722)	98	11541			0.00- 30.00	50.26

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	53058	2.00000	1.650	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	39208			0.00- 30.00	73.90
6.151	6.151 (0.763)	86	7722			0.00- 30.00	14.55
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	46437	2.00000	1.766	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	17321			1.33- 61.33	37.30
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	11108	2.00000	1.733	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	57043			613.01- 673.01	513.53
7.672	7.672 (0.952)	57	4308			0.00- 30.00	38.78
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	33810	2.00000	1.627	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	20195			27.71- 87.71	59.73
7.617	7.617 (0.945)	98	13817			6.61- 66.61	40.87
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	47104	2.00000	1.781	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	11998			0.00- 53.21	25.47
8.059	8.059 (1.000)	72	13838			0.00- 30.00	29.38
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	37236	2.00000	1.502	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	21817			35.04- 95.04	58.59
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	37830	2.00000	1.651	70.00- 130.00	100.00
8.419	8.419 (1.045)	99	21243			33.38- 93.38	56.15
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	27053	2.00000	1.580	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	47575			154.90- 214.90	175.86
8.391	8.391 (1.041)	41	30704			71.49- 131.49	113.50
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.151 (0.763)	86	7722	2.00000	1.939	70.00- 130.00	100.00(a)
6.151	6.151 (0.763)	43	39208			0.00- 30.00	507.74
6.151	6.151 (0.763)	42	24699			0.00- 30.00	319.85
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	35512	2.00000	1.660	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	34352			72.64- 132.64	96.73

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	143131	2.00000	1.593	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	52126			0.00- 30.00	36.42
9.082	9.082 (1.127)	41	46529			0.00- 30.00	32.51
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	57162	2.00000	1.514	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	17011			0.00- 30.00	29.76
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	31885	2.00000	1.731	70.00- 130.00	100.00
9.248	9.248 (0.933)	64	9504			0.00- 30.00	29.81
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	7681	2.00000	1.706	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	62726			0.00- 30.00	816.64
9.469	9.469 (0.955)	71	21517			0.00- 30.00	280.13
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	23844	2.00000	1.658	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	24725			70.26- 130.26	103.69
10.326	10.326 (1.042)	97	15279			31.23- 91.23	64.08
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	22388	2.00000	1.476	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	17489			44.39- 104.39	78.12
10.824	10.824 (1.092)	41	19430			40.61- 100.61	86.79
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	14751	2.00000	1.714	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	58	16351			72.11- 132.11	110.85
11.073	11.073 (1.117)	57	8163			0.00- 30.00	55.34
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	32107	2.00000	1.473	70.00- 130.00	100.00
11.377	11.377 (1.148)	85	20233			35.07- 95.07	63.02
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	26772	2.00000	1.640	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	7963			2.12- 62.12	29.74
12.289	12.289 (1.240)	39	20362			49.06- 109.06	76.06
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	23541	2.00000	1.432	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	73475			0.00- 30.00	312.12
12.594	12.594 (1.271)	85	10083			0.00- 30.00	42.83

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	62591	2.00000	1.673	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	37961			29.46- 89.46	60.65
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	20395	2.00000	1.334	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	9282			1.57- 61.57	45.51
13.340	13.340 (0.889)	39	12544			42.45- 102.45	61.51
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	22392	2.00000	1.738	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	12042			31.96- 91.96	53.78
13.644	13.644 (0.910)	83	20715			54.01- 114.01	92.51
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	27079	2.00000	1.667	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	21853			50.41- 110.41	80.70
13.672	13.672 (0.912)	131	21614			48.45- 108.45	79.82
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	30686	2.00000	1.472	70.00- 130.00	100.00(a)
14.004	14.004 (0.934)	43	68189			177.96- 237.96	222.22
14.031	14.031 (0.935)	100	5453			0.00- 30.00	17.77
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	32096	2.00000	1.558	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	25251			0.00- 30.00	78.67
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	32997	2.00000	1.598	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	27280			63.93- 123.93	82.67
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	51070	2.00000	1.659	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	19214			3.06- 63.06	37.62
15.027	15.027 (1.002)	77	35414			29.85- 89.85	69.34
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	26658	2.00000	1.497	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	82374			0.00- 30.00	309.00
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	34522	2.00000	1.580	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	68516			0.00- 30.00	198.47
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	35343	2.00000	1.684	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	73019			181.03- 241.03	206.60
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	48986	2.00000	1.440	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	24517			20.92- 80.92	50.05
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	28782	2.00000	1.593	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	14632			21.58- 81.58	50.84
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	49026	2.00000	1.720	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	31238			34.08- 94.08	63.72
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	108742	2.00000	1.690	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	32838			0.00- 59.52	30.20
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	102786	2.00000	1.761	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	46616			0.00- 30.00	45.35
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	87170	2.00000	1.815	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	38877			16.93- 76.93	44.60
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	57872	2.00000	1.848	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	34761			0.00- 30.00	60.07
17.764	17.764 (1.184)	111	23715			0.00- 30.00	40.98
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	62666	2.00000	1.621	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	40292			0.00- 30.00	64.30
17.847	17.847 (1.190)	111	24555			0.00- 30.00	39.18
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	73798	2.00000	1.365	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	12354			0.00- 30.00	16.74
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	57764	2.00000	1.792	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	36592			32.68- 92.68	63.35
18.206	18.206 (1.214)	111	26243			11.30- 71.30	45.43

				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	52157	2.00000	2.164	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	48154			65.42- 125.42	92.33
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	38548	2.00000	2.024	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	21494			33.29- 93.29	55.76
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	117425	2.00000	1.654	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	26441			0.00- 30.00	22.52
16.824	16.824 (1.122)	105	5904			0.00- 30.00	5.03
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	104755	2.00000	1.570	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	26260			0.00- 30.00	25.07
16.326	16.326 (1.088)	51	16085			0.00- 30.00	15.35
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	177058	2.00000	2.019	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	23526			0.00- 30.00	13.29
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	50285	2.00000	1.690	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	57	32888			0.00- 30.00	65.40
3.414	3.414 (0.424)	72	2599			0.00- 30.00	5.17
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	9640	2.00000	1.957	70.00- 130.00	100.00(a)
2.667	2.667 (0.331)	43	71099			0.00- 30.00	737.54
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	35980	2.00000	1.577	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	18159			0.00- 30.00	50.47
10.548	10.548 (1.064)	55	50012			0.00- 30.00	139.00

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5011716.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 2ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	233992	1.46
92 1,4-Difluorobenze	903162	541897	1264427	927716	2.72
125 Chlorobenzene-d5	808795	485277	1132313	814449	0.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	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/5-17jan.b/5011716.d

Date : 17-JAN-2008 17:51

Client ID: Level 3

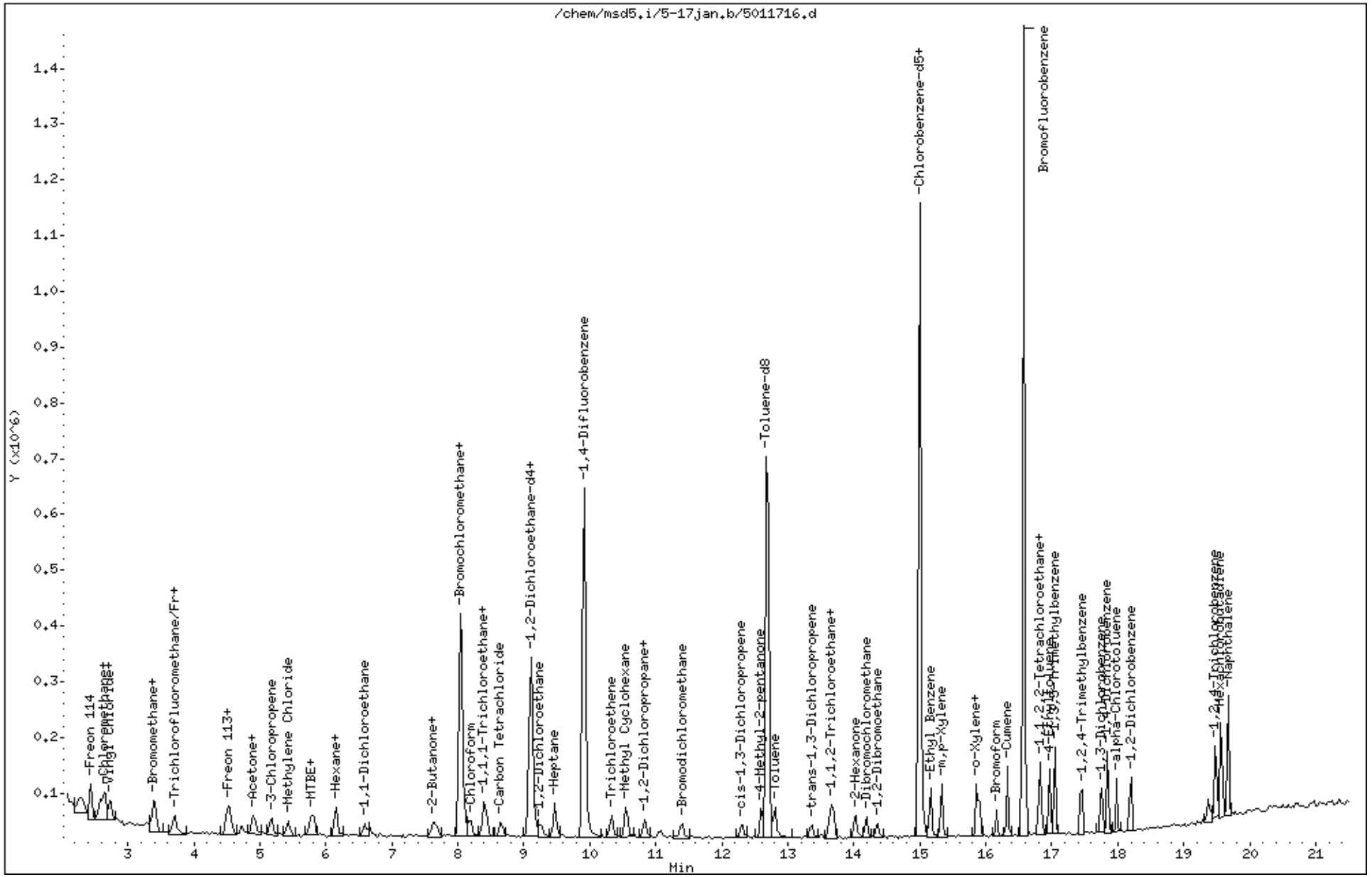
Sample Info: 2mL #1576-198

Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011711.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 17-JAN-2008 14:47
Operator : cb Inst ID: msd5.i
Smp Info : 25mL #1576-198
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 14:47 Cal File: 5011711.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	228034	25.0000		70.00- 130.00		100.00
8.031	8.031 (1.000)	128	177670			48.81- 108.81		77.91
8.031	8.031 (1.000)	49	521393			199.42- 259.42		228.65
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	886847	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	143685			0.00- 46.40		16.20
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	797031	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	452387			0.00- 30.00		56.76
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	356908	25.0000	24.450	70.00- 130.00		100.00
9.110	9.110 (1.130)	67	180230			0.00- 30.00		50.50
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.677	12.677 (1.279)	98	852422	25.0000	25.175	70.00- 130.00		100.00
12.677	12.677 (1.279)	70	91077			0.00- 30.00		10.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.677 (1.279)	100	615132			0.00- 30.00	72.16
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	470105	25.0000	24.917	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	681479			113.24- 173.24	144.96
16.575	16.575 (1.105)	176	454244			67.29- 127.29	96.63
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	454424	25.0000	25.894	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	313829			0.00- 30.00	69.06
2.280	2.280 (0.283)	39	325374			0.00- 30.00	71.60
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	791298	25.0000	29.740	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	254908			0.00- 30.00	32.21
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	665854	25.0000	28.916	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	206771			0.74- 60.74	31.05
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	590667	25.0000	28.161	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	176215			0.00- 30.00	29.83
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	506400	25.0000	28.511	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	152766			0.00- 30.00	30.17
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	499866	25.0000	27.521	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	530362			0.00- 30.00	106.10
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	274259	25.0000	27.667	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	264101			64.36- 124.36	96.30
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	243168	25.0000	28.408	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	78320			0.00- 30.00	32.21
3.386	3.386 (0.420)	66	78752			0.00- 30.00	32.39
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	864035	25.0000	29.204	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	564315			34.16- 94.16	65.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	213966	25.0000	29.258	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	43007			0.00- 30.00	20.10
4.078	4.078 (0.506)	46	89869			0.00- 30.00	42.00
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	487507	25.0000	29.308	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	309405			34.46- 94.46	63.47
4.520	4.520 (0.561)	101	636934			102.42- 162.42	130.65
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	671823	25.0000	28.705	70.00- 130.00	100.00
4.548	4.548 (0.564)	96	318517			17.45- 77.45	47.41
4.548	4.548 (0.564)	98	208463			0.00- 59.59	31.03
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	243913	25.0000	27.088	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	790375			0.00- 30.00	324.04
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	998426	25.0000	27.983	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	207658			0.00- 30.00	20.80
4.907	4.907 (0.609)	59	33506			0.00- 30.00	3.36
35 Carbon Disulfide					CAS #: 75-15-0		
4.879	4.879 (0.605)	76	981162	25.0000	28.972	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	167623	25.0000	28.328	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	757267			0.00- 30.00	451.77
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	582723	25.0000	28.514	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	281071			16.65- 76.65	48.23
5.432	5.432 (0.674)	51	182750			0.00- 30.00	31.36
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	538006	25.0000	27.637	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	182840			2.93- 62.93	33.98
5.764	5.764 (0.715)	41	173862			0.00- 30.00	32.32
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	353746	25.0000	28.159	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	671887			161.29- 221.29	189.93
5.819	5.819 (0.722)	98	223626			0.00- 30.00	63.22

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	891045	25.0000	28.440	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	646785			0.00- 30.00	72.59
6.151	6.151 (0.763)	86	103428			0.00- 30.00	11.61
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	732413	25.0000	28.585	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	224935			1.33- 61.33	30.71
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	172435	25.0000	27.605	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	1093288			613.01- 673.01	634.03
7.644	7.644 (0.949)	57	73204			0.00- 30.00	42.45
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	587163	25.0000	29.001	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	331862			27.71- 87.71	56.52
7.617	7.617 (0.945)	98	206690			6.61- 66.61	35.20
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	669423	25.0000	25.976	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	150932			0.00- 53.13	22.55
8.031	8.031 (0.997)	72	180270			0.00- 30.00	26.93
72 Chloroform					CAS #: 67-66-3		
8.170	8.170 (1.014)	83	609579	25.0000	28.311	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	386492			35.04- 95.04	63.40
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	635044	25.0000	28.446	70.00- 130.00	100.00
8.419	8.419 (1.045)	99	415629			33.38- 93.38	65.45
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	459012	25.0000	27.500	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	877548			154.90- 214.90	191.18
8.391	8.391 (1.041)	41	485602			71.49- 131.49	105.79
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.151 (0.763)	86	103428	25.0000	26.656	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	646785			0.00- 30.00	625.35
6.151	6.151 (0.763)	42	299751			0.00- 30.00	289.82
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	588034	25.0000	28.210	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	606829			72.64- 132.64	103.20

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	2529483	25.0000	28.885	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	834065			0.00- 30.00	32.97
9.082	9.082 (1.127)	41	667737			0.00- 30.00	26.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	973847	25.0000	29.284	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	221224			0.00- 30.00	22.72
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.248 (0.933)	62	515820	25.0000	29.289	70.00- 130.00	100.00
9.248	9.248 (0.933)	64	160423			0.00- 30.00	31.10
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	121878	25.0000	28.320	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1048713			0.00- 30.00	860.46
9.469	9.469 (0.955)	71	370761			0.00- 30.00	304.21
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	403417	25.0000	29.337	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	404457			70.26- 130.26	100.26
10.326	10.326 (1.042)	97	255331			31.23- 91.23	63.29
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	423604	25.0000	29.220	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	301135			44.39- 104.39	71.09
10.824	10.824 (1.092)	41	297095			40.61- 100.61	70.14
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	224170	25.0000	27.248	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	233194			72.11- 132.11	104.03
11.045	11.045 (1.114)	57	73000			0.00- 30.00	32.56
100 Bromodichloromethane					CAS #: 75-27-4		
11.377	11.377 (1.148)	83	602389	25.0000	28.910	70.00- 130.00	100.00
11.377	11.377 (1.148)	85	377311			35.07- 95.07	62.64
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.289	12.289 (1.240)	75	466530	25.0000	29.888	70.00- 130.00	100.00
12.289	12.289 (1.240)	77	152067			2.12- 62.12	32.60
12.289	12.289 (1.240)	39	372546			49.06- 109.06	79.85
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	425936	25.0000	27.109	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	1178315			0.00- 30.00	276.64
12.594	12.594 (1.271)	85	131414			0.00- 30.00	30.85

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	1048159	25.0000	29.312	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	635755			29.46- 89.46	60.65
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	456401	25.0000	30.503	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	138906			1.57- 61.57	30.44
13.340	13.340 (0.889)	39	335810			42.45- 102.45	73.58
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	358581	25.0000	28.439	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	221391			31.96- 91.96	61.74
13.644	13.644 (0.910)	83	292806			54.01- 114.01	81.66
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	460674	25.0000	28.986	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	369723			50.41- 110.41	80.26
13.672	13.672 (0.912)	131	361036			48.45- 108.45	78.37
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	561109	25.0000	27.511	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1185114			177.96- 237.96	211.21
14.004	14.004 (0.934)	100	84058			0.00- 30.00	14.98
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	582335	25.0000	28.896	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	434638			0.00- 30.00	74.64
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.335	14.335 (0.956)	107	555706	25.0000	27.503	70.00- 130.00	100.00
14.335	14.335 (0.956)	109	530055			63.93- 123.93	95.38
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	865930	25.0000	28.748	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	286916			3.06- 63.06	33.13
15.027	15.027 (1.002)	77	519366			29.85- 89.85	59.98
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	499957	25.0000	28.695	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	1519101			0.00- 30.00	303.85
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	612074	25.0000	28.625	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1232602			0.00- 30.00	201.38
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	566339	25.0000	27.569	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	1219581			181.03- 241.03	215.34
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	916621	25.0000	27.527	70.00- 130.00	100.00
15.884	15.884 (1.059)	78	473312			20.92- 80.92	51.64
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	506167	25.0000	28.631	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	263382			21.58- 81.58	52.03
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	784264	25.0000	28.122	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	503219			34.08- 94.08	64.16
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	1865273	25.0000	29.621	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	546519			0.00- 59.52	29.30
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	1656854	25.0000	29.013	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	805766			0.00- 30.00	48.63
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1336326	25.0000	28.428	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	620086			16.93- 76.93	46.40
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	843166	25.0000	27.517	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	539113			0.00- 30.00	63.94
17.764	17.764 (1.184)	111	348124			0.00- 30.00	41.29
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1091240	25.0000	28.848	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	685370			0.00- 30.00	62.81
17.847	17.847 (1.190)	111	458752			0.00- 30.00	42.04
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	1456602	25.0000	27.531	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	293838			0.00- 30.00	20.17
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	846755	25.0000	26.844	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	542630			32.68- 92.68	64.08
18.206	18.206 (1.214)	111	348182			11.30- 71.30	41.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.478 (1.299)	180	598595	25.0000	25.378	70.00- 130.00	100.00
19.478	19.478 (1.299)	182	564590			65.42- 125.42	94.32
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	477213	25.0000	25.599	70.00- 130.00	100.00
19.561	19.561 (1.304)	223	297184			33.29- 93.29	62.27
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	1976748	25.0000	28.457	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	458059			0.00- 30.00	23.17
16.824	16.824 (1.122)	105	70977			0.00- 30.00	3.59
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	1758108	25.0000	26.935	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	460910			0.00- 30.00	26.22
16.326	16.326 (1.088)	51	252946			0.00- 30.00	14.39
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2242425	25.0000	26.128	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	287589			0.00- 30.00	12.82
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	817260	25.0000	28.192	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	504885			0.00- 30.00	61.78
3.414	3.414 (0.424)	72	42490			0.00- 30.00	5.20
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	134378	25.0000	27.991	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1049024			0.00- 30.00	780.65
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	619349	25.0000	28.401	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	290281			0.00- 30.00	46.87
10.548	10.548 (1.064)	55	753690			0.00- 30.00	121.69

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5011711.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	228034	-1.12
92 1,4-Difluorobenze	903162	541897	1264427	886847	-1.81
125 Chlorobenzene-d5	808795	485277	1132313	797031	-1.45

		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

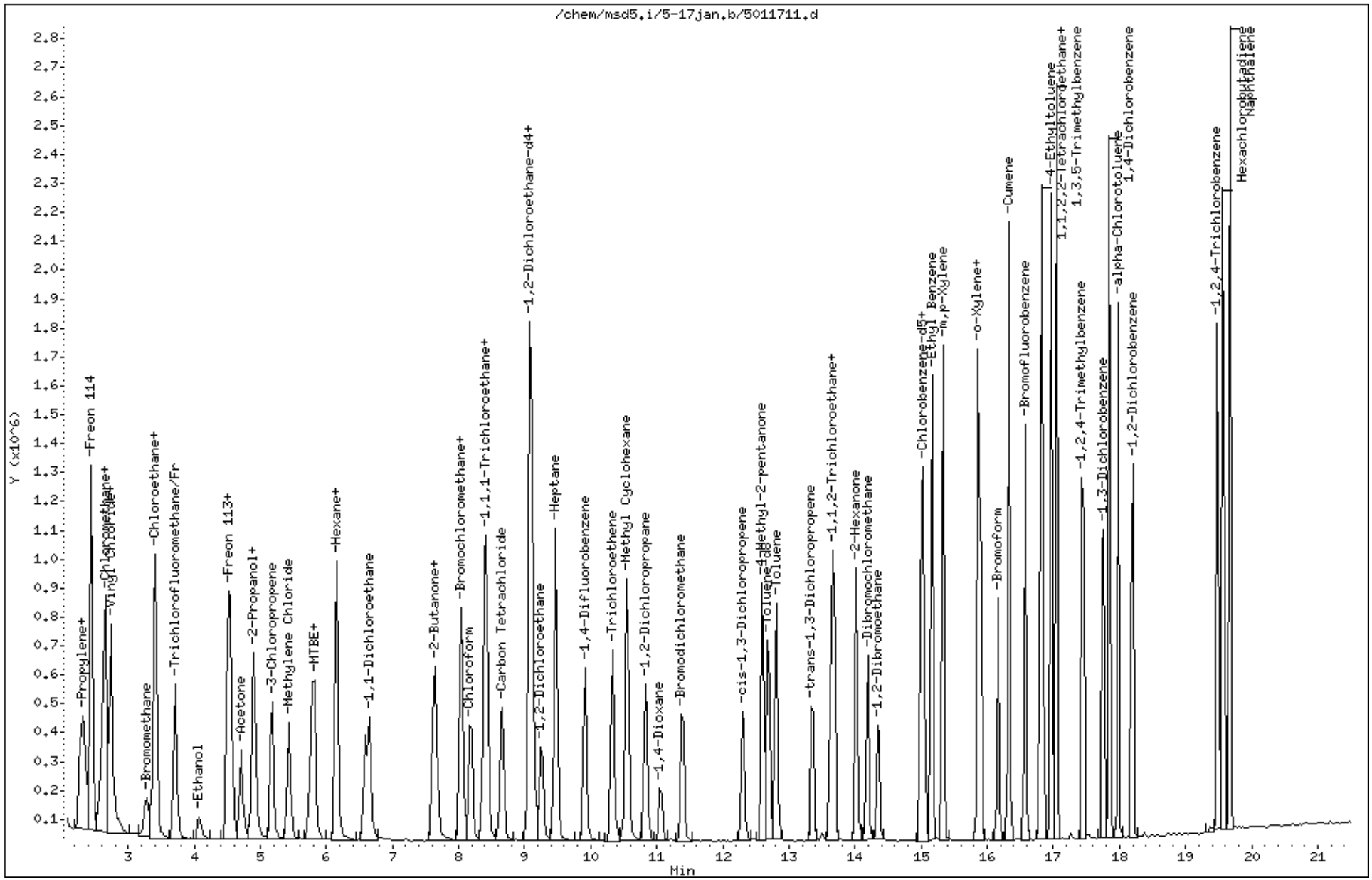
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0101

Data File: /chem/msd5.i/5-17jan.b/5011711.d
Date : 17-JAN-2008 14:47
Client ID: Level 4
Sample Info: 25mL #1576-198

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/5-17jan.b/5011712.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 17-JAN-2008 15:15
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-198
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 15:15 Cal File: 5011712.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	230627	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	181746			48.81- 108.81		78.81
8.031	8.031 (1.000)	49	529096			199.42- 259.42		229.42
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	903162	25.0000		80.00- 120.00		100.00
9.912	9.912 (1.000)	88	148147			0.00- 46.40		16.40
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	808795	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	446720			25.23- 85.23		55.23
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	371729	25.0000	25.179	80.00- 120.00		100.00
9.110	9.110 (1.130)	67	195844			22.68- 82.68		52.68
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.676	12.676 (1.279)	98	875733	25.0000	25.396	80.00- 120.00		100.00
12.676	12.676 (1.279)	70	95316			0.00- 40.88		10.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.676	12.676 (1.279)	100	580185			36.25- 96.25	66.25
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	471082	25.0000	24.605	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	674777			113.24- 173.24	143.24
16.575	16.575 (1.105)	176	458313			67.29- 127.29	97.29
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	878964	50.0000	49.522	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	580064			35.99- 95.99	65.99
2.280	2.280 (0.283)	39	593699			37.55- 97.55	67.55
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1439014	50.0000	53.476	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	468918			2.59- 62.59	32.59
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1305165	50.0000	56.043	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	401159			0.74- 60.74	30.74
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1134056	50.0000	53.460	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	338868			0.00- 59.88	29.88
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	983881	50.0000	54.770	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	295263			0.01- 60.01	30.01
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	949820	50.0000	51.707	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1046774			80.21- 140.21	110.21
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	559136	50.0000	55.771	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	527581			64.36- 124.36	94.36
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	449527	50.0000	51.925	80.00- 120.00	100.00
3.386	3.386 (0.420)	49	148676			3.07- 63.07	33.07
3.386	3.386 (0.420)	66	142201			1.63- 61.63	31.63
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1700708	50.0000	56.838	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1091128			34.16- 94.16	64.16

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	412604	50.0000	55.786	80.00- 120.00	100.00
4.077	4.077 (0.506)	43	85697			0.00- 50.77	20.77
4.077	4.077 (0.506)	46	171561			11.58- 71.58	41.58
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	933285	50.0000	55.477	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	601604			34.46- 94.46	64.46
4.520	4.520 (0.561)	101	1235852			102.42- 162.42	132.42
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	1336614	50.0000	56.468	80.00- 120.00	100.00
4.548	4.548 (0.564)	96	634243			17.45- 77.45	47.45
4.548	4.548 (0.564)	98	395525			0.00- 59.59	29.59
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	476602	50.0000	52.334	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1578793			301.26- 361.26	331.26
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1993902	50.0000	55.255	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	390681			0.00- 49.59	19.59
4.907	4.907 (0.609)	59	66431			0.00- 33.33	3.33
35 Carbon Disulfide					CAS #: 75-15-0		
4.879	4.879 (0.605)	76	1907831	50.0000	55.701	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	312422	50.0000	52.205	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	1469620			440.40- 500.40	470.40
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1144379	50.0000	55.368	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	533824			16.65- 76.65	46.65
5.432	5.432 (0.674)	51	340675			0.00- 59.77	29.77
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	993264	50.0000	50.450	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	327063			2.93- 62.93	32.93
5.764	5.764 (0.715)	41	322660			2.48- 62.48	32.48
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	692401	50.0000	54.498	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1324520			161.29- 221.29	191.29
5.819	5.819 (0.722)	98	430261			32.14- 92.14	62.14

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	1724676	50.0000	54.428	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1229604			41.29- 101.29	71.29
6.151	6.151 (0.763)	86	201795			0.00- 41.70	11.70
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1399401	50.0000	54.002	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	438488			1.33- 61.33	31.33
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	330308	50.0000	52.284	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	2123903			613.01- 673.01	643.01
7.644	7.644 (0.949)	57	154418			16.75- 76.75	46.75
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1110544	50.0000	54.235	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	640874			27.71- 87.71	57.71
7.617	7.617 (0.945)	98	406531			6.61- 66.61	36.61
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1293233	50.0000	49.619	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	300217			0.00- 53.21	23.21
8.031	8.031 (0.997)	72	326813			0.00- 55.27	25.27
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1162980	50.0000	53.406	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	756445			35.04- 95.04	65.04
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	1230914	50.0000	54.518	80.00- 120.00	100.00
8.418	8.418 (1.045)	99	780153			33.38- 93.38	63.38
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	927048	50.0000	54.917	80.00- 120.00	100.00
8.391	8.391 (1.041)	56	1714150			154.90- 214.90	184.90
8.391	8.391 (1.041)	41	940898			71.49- 131.49	101.49
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.151 (0.763)	86	201795	50.0000	51.422	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1229604			579.33- 639.33	609.33
6.151	6.151 (0.763)	42	605374			269.99- 329.99	299.99
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1156767	50.0000	54.871	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1187359			72.64- 132.64	102.64

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	4920237	50.0000	55.553	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	1617947			2.88- 62.88	32.88
9.082	9.082 (1.127)	41	1298234			0.00- 56.39	26.39
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1888427	50.0000	55.760	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	430726			0.00- 52.81	22.81
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.248 (0.933)	62	1024164	50.0000	57.102	80.00- 120.00	100.00
9.248	9.248 (0.933)	64	314208			0.68- 60.68	30.68
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	235173	50.0000	53.658	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2026402			831.66- 891.66	861.66
9.469	9.469 (0.955)	71	706138			270.26- 330.26	300.26
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	774673	50.0000	55.317	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	776721			70.26- 130.26	100.26
10.326	10.326 (1.042)	97	474324			31.23- 91.23	61.23
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	798648	50.0000	54.095	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	594077			44.39- 104.39	74.39
10.824	10.824 (1.092)	41	563958			40.61- 100.61	70.61
99 1,4-Dioxane					CAS #: 123-91-1		
11.045	11.045 (1.114)	88	437552	50.0000	52.225	80.00- 120.00	100.00
11.045	11.045 (1.114)	58	446768			72.11- 132.11	102.11
11.045	11.045 (1.114)	57	142344			2.53- 62.53	32.53
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1144615	50.0000	53.940	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	744794			35.07- 95.07	65.07
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.289	12.289 (1.240)	75	907885	50.0000	57.112	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	291656			2.12- 62.12	32.12
12.289	12.289 (1.240)	39	717795			49.06- 109.06	79.06
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	802756	50.0000	50.169	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2286357			254.81- 314.81	284.81
12.593	12.593 (1.271)	85	253345			1.56- 61.56	31.56

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
108 Toluene						CAS #: 108-88-3	
12.815	12.815 (1.293)	91	2015771	50.0000	55.354	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1198554			29.46- 89.46	59.46
113 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
13.368	13.368 (0.891)	75	907565	50.0000	59.773	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	286503			1.57- 61.57	31.57
13.340	13.340 (0.889)	39	657569			42.45- 102.45	72.45
114 1,1,2-Trichloroethane						CAS #: 79-00-5	
13.644	13.644 (0.910)	97	680817	50.0000	53.209	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	421842			31.96- 91.96	61.96
13.644	13.644 (0.910)	83	571941			54.01- 114.01	84.01
116 Tetrachloroethene						CAS #: 127-18-4	
13.699	13.699 (0.913)	166	871900	50.0000	54.062	80.00- 120.00	100.00
13.672	13.672 (0.912)	129	701124			50.41- 110.41	80.41
13.672	13.672 (0.912)	131	684045			48.45- 108.45	78.45
119 2-Hexanone						CAS #: 591-78-6	
14.004	14.004 (0.934)	58	1091006	50.0000	52.714	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2268806			177.96- 237.96	207.96
14.004	14.004 (0.934)	100	169772			0.00- 45.56	15.56
120 Dibromochloromethane						CAS #: 124-48-1	
14.197	14.197 (0.947)	129	1118655	50.0000	54.701	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	859698			46.85- 106.85	76.85
122 1,2-Dibromoethane						CAS #: 106-93-4	
14.335	14.335 (0.956)	107	1075421	50.0000	52.451	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1010153			63.93- 123.93	93.93
126 Chlorobenzene						CAS #: 108-90-7	
15.027	15.027 (1.002)	112	1680386	50.0000	54.975	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	555610			3.06- 63.06	33.06
15.027	15.027 (1.002)	77	1005629			29.85- 89.85	59.85
128 Ethyl Benzene						CAS #: 100-41-4	
15.165	15.165 (1.011)	106	923988	50.0000	52.260	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2872832			280.92- 340.92	310.92
130 m,p-Xylene						CAS #: 108-38-3	
15.331	15.331 (1.022)	106	1190357	50.0000	54.861	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2378060			169.78- 229.78	199.78
132 o-Xylene						CAS #: 95-47-6	
15.856	15.856 (1.057)	106	1112172	50.0000	53.353	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	2346972			181.03- 241.03	211.03
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1751872	50.0000	51.846	80.00- 120.00	100.00
15.884	15.884 (1.059)	78	892069			20.92- 80.92	50.92
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	991534	50.0000	55.269	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	511477			21.58- 81.58	51.58
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1515939	50.0000	53.567	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	971405			34.08- 94.08	64.08
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3540843	50.0000	55.412	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1045328			0.00- 59.52	29.52
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3164414	50.0000	54.606	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1542707			18.75- 78.75	48.75
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2588812	50.0000	54.270	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1215039			16.93- 76.93	46.93
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1679082	50.0000	54.000	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1067963			33.60- 93.60	63.60
17.764	17.764 (1.184)	111	695583			11.43- 71.43	41.43
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2085849	50.0000	54.339	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1308901			32.75- 92.75	62.75
17.847	17.847 (1.190)	111	882779			12.32- 72.32	42.32
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3062824	50.0000	57.049	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	634449			0.00- 50.71	20.71
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1671932	50.0000	52.234	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1047930			32.68- 92.68	62.68
18.206	18.206 (1.214)	111	690529			11.30- 71.30	41.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.478 (1.299)	180	1157915	50.0000	48.378	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1104927			65.42- 125.42	95.42
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	944135	50.0000	49.909	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	597505			33.29- 93.29	63.29
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3802031	50.0000	53.937	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	864339			0.00- 52.73	22.73
16.824	16.824 (1.122)	105	143184			0.00- 33.77	3.77
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3318301	50.0000	50.099	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	904173			0.00- 57.25	27.25
16.326	16.326 (1.088)	51	475701			0.00- 44.34	14.34
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4685200	50.0000	53.797	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	586625			0.00- 42.52	12.52
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1571950	50.0000	53.617	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	973580			31.93- 91.93	61.93
3.414	3.414 (0.424)	72	79140			0.00- 35.03	5.03
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	247202	50.0000	50.913	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	1983085			772.21- 832.21	802.21
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1171667	50.0000	52.757	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	562702			18.03- 78.03	48.03
10.547	10.547 (1.064)	55	1486274			96.85- 156.85	126.85

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5011712.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	230627	0.00
92 1,4-Difluorobenze	903162	541897	1264427	903162	0.00
125 Chlorobenzene-d5	808795	485277	1132313	808795	0.00

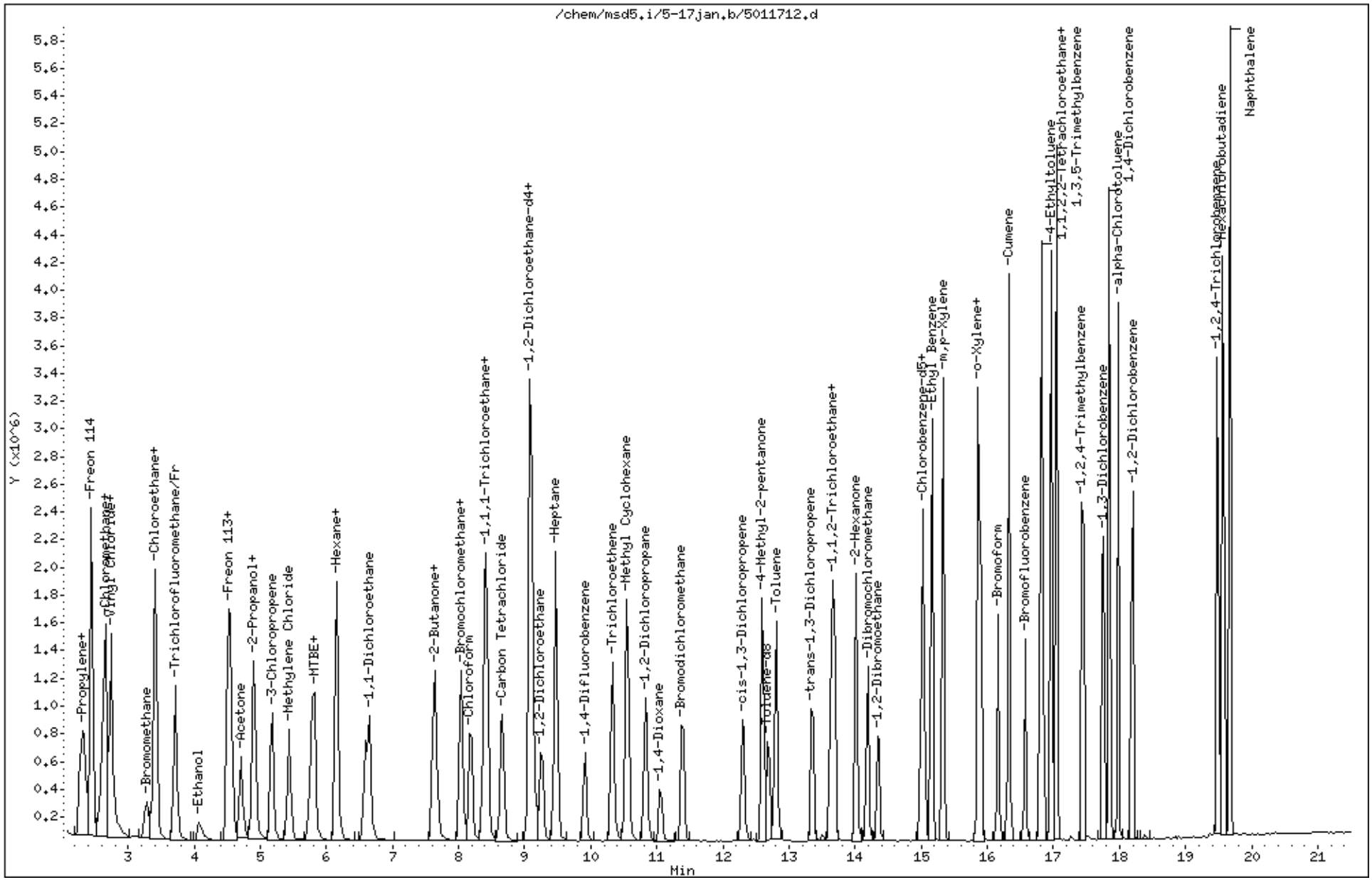
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/5-17jan.b/5011712.d
Date : 17-JAN-2008 15:15
Client ID: Level 5
Sample Info: 50mL #1576-198

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011713.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 17-JAN-2008 15:43
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #1576-198
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 15:43 Cal File: 5011713.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	243971	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	194164			48.81- 108.81	79.58
8.031	8.031 (1.000)	49	560929			199.42- 259.42	229.92
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	965571	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	154303			0.00- 46.40	15.98
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	833586	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	479932			0.00- 30.00	57.57
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	391958	25.0000	25.098	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	241180			0.00- 30.00	61.53
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.677	12.677 (1.279)	98	914107	25.0000	24.796	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	99637			0.00- 30.00	10.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.677 (1.279)	100	620094			0.00- 30.00	67.84
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	492751	25.0000	24.972	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	710287			113.24- 173.24	144.15
16.575	16.575 (1.105)	176	475378			67.29- 127.29	96.47
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1741627	100.000	92.759	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	1161516			0.00- 30.00	66.69
2.280	2.280 (0.283)	39	1192953			0.00- 30.00	68.50
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2839595	100.000	99.752	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	915322			0.00- 30.00	32.23
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	2538917	100.000	103.06	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	787178			0.74- 60.74	31.00
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	2196997	100.000	97.904	70.00- 130.00	100.00
2.585	2.585 (0.321)	52	667115			0.00- 30.00	30.36
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1946798	100.000	102.45	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	584168			0.00- 30.00	30.01
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1908550	100.000	98.216	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	2161968			0.00- 30.00	113.28
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1138385	100.000	107.34	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	1078199			64.36- 124.36	94.71
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	877818	100.000	95.850	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	293767			0.00- 30.00	33.47
3.386	3.386 (0.420)	66	271601			0.00- 30.00	30.94
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	3411333	100.000	107.77	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	2184817			34.16- 94.16	64.05

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	763969	100.000	97.644	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	141817			0.00- 30.00	18.56
4.105	4.105 (0.509)	46	316507			0.00- 30.00	41.43
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1882243	100.000	105.76	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1203152			34.46- 94.46	63.92
4.520	4.520 (0.561)	101	2469955			102.42- 162.42	131.22
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	2717654	100.000	108.53	70.00- 130.00	100.00
4.548	4.548 (0.564)	96	1276528			17.45- 77.45	46.97
4.575	4.575 (0.568)	98	816359			0.00- 59.59	30.04
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	986145	100.000	102.36	70.00- 130.00	100.00
4.714	4.714 (0.585)	43	3204707			0.00- 30.00	324.97
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	4026575	100.000	105.48	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	794487			0.00- 30.00	19.73
4.907	4.907 (0.609)	59	127086			0.00- 30.00	3.16
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	3882293	100.000	107.15	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	629838	100.000	99.488	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	3000728			0.00- 30.00	476.43
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	2303211	100.000	105.34	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	1101679			16.65- 76.65	47.83
5.432	5.432 (0.674)	51	704966			0.00- 30.00	30.61
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1924048	100.000	92.381	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	644247			2.93- 62.93	33.48
5.764	5.764 (0.715)	41	646356			0.00- 30.00	33.59
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	1408879	100.000	104.82	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	2707350			161.29- 221.29	192.16
5.820	5.820 (0.722)	98	896092			0.00- 30.00	63.60

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	3520983	100.000	105.04	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	2454044			0.00- 30.00	69.70
6.151	6.151 (0.763)	86	409152			0.00- 30.00	11.62
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2878101	100.000	104.99	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	867295			1.33- 61.33	30.13
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	685165	100.000	102.52	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	4338386			613.01- 673.01	633.19
7.644	7.644 (0.949)	57	319213			0.00- 30.00	46.59
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2271804	100.000	104.88	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1295294			27.71- 87.71	57.02
7.617	7.617 (0.945)	98	823753			6.61- 66.61	36.26
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2623233	100.000	95.143	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	589425			0.00- 53.21	22.47
8.031	8.031 (0.997)	72	655320			0.00- 30.00	24.98
72 Chloroform					CAS #: 67-66-3		
8.170	8.170 (1.014)	83	2360481	100.000	102.47	70.00- 130.00	100.00
8.170	8.170 (1.014)	85	1496967			35.04- 95.04	63.42
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.419 (1.045)	97	2489556	100.000	104.23	70.00- 130.00	100.00
8.419	8.419 (1.045)	99	1590659			33.38- 93.38	63.89
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	1854161	100.000	103.83	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	3435810			154.90- 214.90	185.30
8.391	8.391 (1.041)	41	1896714			71.49- 131.49	102.30
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.151 (0.763)	86	409152	100.000	98.559	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	2454044			0.00- 30.00	599.79
6.151	6.151 (0.763)	42	1245389			0.00- 30.00	304.38
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2355059	100.000	105.60	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	2458396			72.64- 132.64	104.39

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	10023387	100.000	106.98	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	3312223			0.00- 30.00	33.04
9.082	9.082 (1.127)	41	2636930			0.00- 30.00	26.31
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3781362	100.000	104.44	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	882473			0.00- 30.00	23.34
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.248 (0.933)	62	2042414	100.000	106.52	70.00- 130.00	100.00
9.248	9.248 (0.933)	64	621799			0.00- 30.00	30.44
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	484252	100.000	103.35	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	4170899			0.00- 30.00	861.31
9.469	9.469 (0.955)	71	1441921			0.00- 30.00	297.76
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1560665	100.000	104.24	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	1585195			70.26- 130.26	101.57
10.326	10.326 (1.042)	97	998265			31.23- 91.23	63.96
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	1645804	100.000	104.27	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	1215960			44.39- 104.39	73.88
10.824	10.824 (1.092)	41	1163801			40.61- 100.61	70.71
99 1,4-Dioxane					CAS #: 123-91-1		
11.045	11.045 (1.114)	88	918620	100.000	102.56	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	920987			72.11- 132.11	100.26
11.045	11.045 (1.114)	57	290882			0.00- 30.00	31.67
100 Bromodichloromethane					CAS #: 75-27-4		
11.377	11.377 (1.148)	83	2382865	100.000	105.03	70.00- 130.00	100.00
11.377	11.377 (1.148)	85	1496665			35.07- 95.07	62.81
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.290	12.290 (1.240)	75	1831159	100.000	107.75	70.00- 130.00	100.00
12.290	12.290 (1.240)	77	592012			2.12- 62.12	32.33
12.290	12.290 (1.240)	39	1429868			49.06- 109.06	78.09
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1593922	100.000	93.176	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	4564960			0.00- 30.00	286.40
12.594	12.594 (1.271)	85	506355			0.00- 30.00	31.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	4012069	100.000	103.05	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2429529			29.46- 89.46	60.56
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.340	13.340 (0.889)	75	1873580	100.000	119.72	70.00- 130.00	100.00
13.340	13.340 (0.889)	77	591251			1.57- 61.57	31.56
13.340	13.340 (0.889)	39	1369031			42.45- 102.45	73.07
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1353387	100.000	102.63	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	841733			31.96- 91.96	62.19
13.644	13.644 (0.910)	83	1149551			54.01- 114.01	84.94
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1745160	100.000	104.99	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	1423790			50.41- 110.41	81.59
13.672	13.672 (0.912)	131	1358052			48.45- 108.45	77.82
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2252042	100.000	105.57	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	4615613			177.96- 237.96	204.95
14.004	14.004 (0.934)	100	356539			0.00- 30.00	15.83
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2282355	100.000	108.28	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	1780850			0.00- 30.00	78.03
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.336	14.336 (0.956)	107	2152603	100.000	101.86	70.00- 130.00	100.00
14.336	14.336 (0.956)	109	2061123			63.93- 123.93	95.75
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	3359762	100.000	106.65	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1075420			3.06- 63.06	32.01
15.027	15.027 (1.002)	77	1974057			29.85- 89.85	58.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1854123	100.000	101.75	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	5748826			0.00- 30.00	310.06
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2354309	100.000	105.28	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	4722411			0.00- 30.00	200.59
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2189747	100.000	101.92	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	4637787			181.03- 241.03	211.80
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	3505360	100.000	100.65	70.00- 130.00	100.00
15.884	15.884 (1.059)	78	1797964			20.92- 80.92	51.29
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2071117	100.000	112.01	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1058702			21.58- 81.58	51.12
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3061760	100.000	104.97	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	1942521			34.08- 94.08	63.44
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	7275702	100.000	110.47	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	2121745			0.00- 59.52	29.16
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	6404964	100.000	107.24	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	3118570			0.00- 30.00	48.69
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	5289330	100.000	107.58	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	2433721			16.93- 76.93	46.01
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	3391949	100.000	105.84	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	2135104			0.00- 30.00	62.95
17.764	17.764 (1.184)	111	1426063			0.00- 30.00	42.04
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	4310861	100.000	108.96	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	2703333			0.00- 30.00	62.71
17.847	17.847 (1.190)	111	1783633			0.00- 30.00	41.38
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	6455120	100.000	116.66	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1336908			0.00- 30.00	20.71
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	3455418	100.000	104.74	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	2209829			32.68- 92.68	63.95
18.206	18.206 (1.214)	111	1403132			11.30- 71.30	40.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.478 (1.299)	180	2389890	100.000	96.880	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	2275573			65.42- 125.42	95.22
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1920010	100.000	98.477	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1200359			33.29- 93.29	62.52
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	7772569	100.000	106.98	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	1792139			0.00- 30.00	23.06
16.824	16.824 (1.122)	105	284120			0.00- 30.00	3.66
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	6731954	100.000	98.614	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	1813555			0.00- 30.00	26.94
16.326	16.326 (1.088)	51	957875			0.00- 30.00	14.23
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	9923957	100.000	110.56	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1275009			0.00- 30.00	12.85
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	3125023	100.000	100.76	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1951365			0.00- 30.00	62.44
3.414	3.414 (0.424)	72	158915			0.00- 30.00	5.09
11 Butane					CAS #: 106-97-8		
2.668	2.668 (0.331)	58	507435	100.000	98.794	70.00- 130.00	100.00
2.668	2.668 (0.331)	43	3965235			0.00- 30.00	781.43
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	2375271	100.000	100.04	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	1147406			0.00- 30.00	48.31
10.548	10.548 (1.064)	55	2979856			0.00- 30.00	125.45

Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5011713.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	243971	5.79
92 1,4-Difluorobenze	903162	541897	1264427	965571	6.91
125 Chlorobenzene-d5	808795	485277	1132313	833586	3.07

		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.

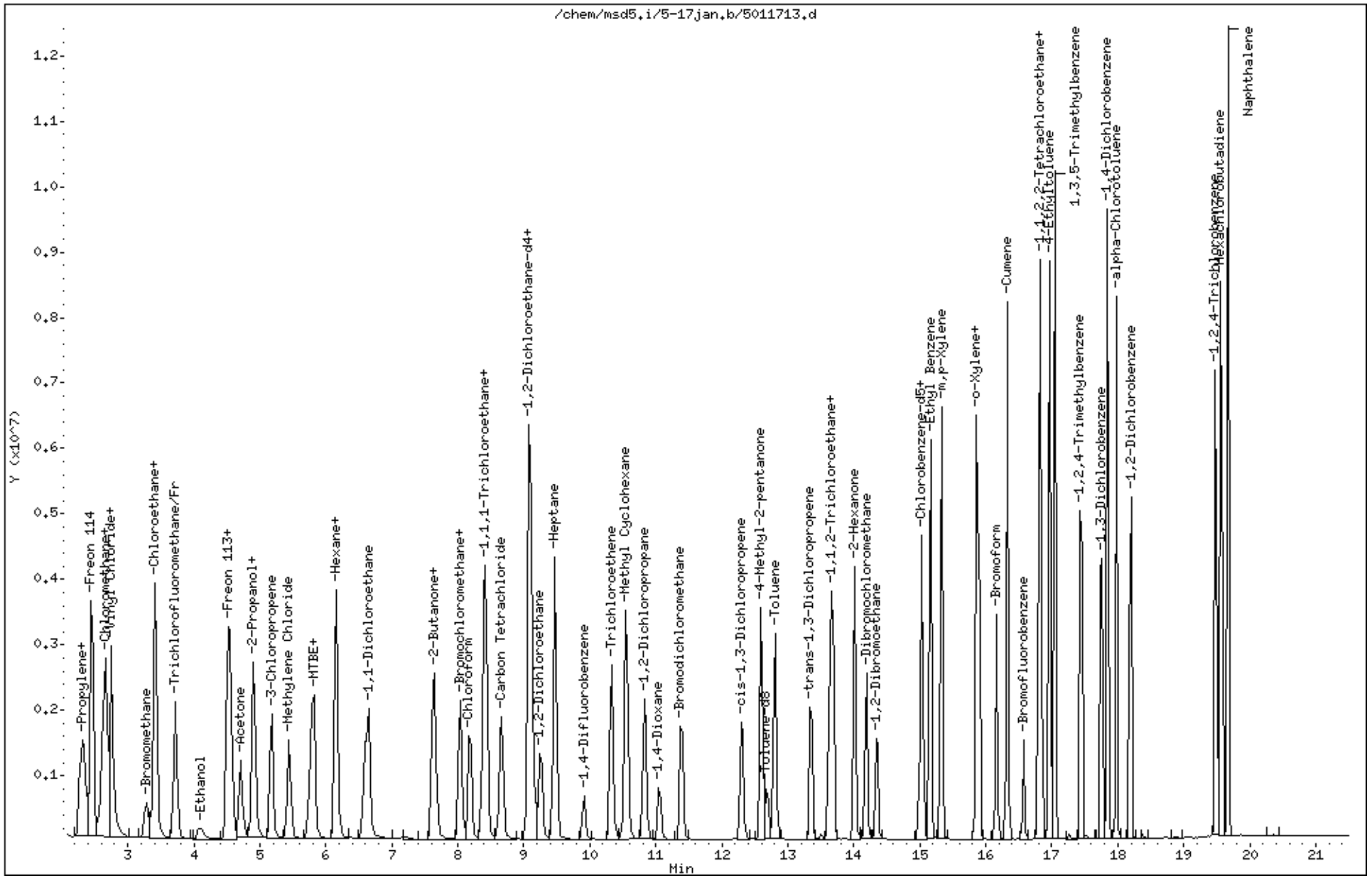
0121

Data File: /chem/msd5.i/5-17jan.b/5011713.d
Date : 17-JAN-2008 15:43
Client ID: Level 6
Sample Info: 100mL #1576-198

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/5-17jan.b/5011714.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 17-JAN-2008 16:16
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1576-198
Misc Info : 200ppbv
Comment :
Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
Cal Date : 17-JAN-2008 16:16 Cal File: 5011714.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	268998	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	201086			48.81- 108.81	74.75
8.059	8.059 (1.000)	49	617605			199.42- 259.42	229.59
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1047667	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	173467			0.00- 46.40	16.56
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	907322	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	525735			0.00- 30.00	57.94
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110 (1.130)	65	460620	25.0000	26.750	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	314248			0.00- 30.00	68.22
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.677	12.677 (1.279)	98	994907	25.0000	24.873	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	108720			0.00- 30.00	10.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.677	12.677 (1.279)	100	698654			0.00- 30.00	70.22
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	555970	25.0000	25.886	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	784021			113.24- 173.24	141.02
16.575	16.575 (1.105)	176	530548			67.29- 127.29	95.43
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	3820108	200.000	184.53	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	2554607			0.00- 30.00	66.87
2.280	2.280 (0.283)	39	2645439			0.00- 30.00	69.25
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	6512128	200.000	207.48	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	87	2083824			0.00- 30.00	32.00
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	5172033	200.000	190.40	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	1647037			0.74- 60.74	31.85
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	4662619	200.000	188.45	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	1375716			0.00- 30.00	29.51
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	3952428	200.000	188.64	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	1173880			0.00- 30.00	29.70
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	3922949	200.000	183.10	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	5072620			0.00- 30.00	129.31
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	2412838	200.000	206.34	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	2238699			64.36- 124.36	92.78
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	1883578	200.000	186.54	70.00- 130.00	100.00
3.442	3.442 (0.427)	49	587306			0.00- 30.00	31.18
3.442	3.442 (0.427)	66	571070			0.00- 30.00	30.32
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	7080992	200.000	202.89	70.00- 130.00	100.00(A)
3.718	3.718 (0.461)	103	4578884			34.16- 94.16	64.66

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	1483277	200.000	171.94	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	264544			0.00- 30.00	17.84
4.133	4.133 (0.513)	46	617414			0.00- 30.00	41.62
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	3950795	200.000	201.35	70.00- 130.00	100.00(A)
4.520	4.520 (0.561)	153	2486250			34.46- 94.46	62.93
4.520	4.520 (0.561)	101	5149659			102.42- 162.42	130.34
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	5676903	200.000	205.62	70.00- 130.00	100.00(A)
4.575	4.575 (0.568)	96	2673295			17.45- 77.45	47.09
4.575	4.575 (0.568)	98	1687859			0.00- 59.59	29.73
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	2034571	200.000	191.54	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	6621706			0.00- 30.00	325.46
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	8129872	200.000	193.16	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1626626			0.00- 30.00	20.01
4.907	4.907 (0.609)	59	274727			0.00- 30.00	3.38
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	8158305	200.000	204.21	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	1283590	200.000	183.89	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	6002537			0.00- 30.00	467.64
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	4812577	200.000	199.63	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	2297693			16.65- 76.65	47.74
5.460	5.460 (0.677)	51	1464636			0.00- 30.00	30.43
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	3324428	200.000	144.77	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	1128150			2.93- 62.93	33.94
5.764	5.764 (0.715)	41	1079452			0.00- 30.00	32.47
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	2967348	200.000	200.24	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	5664627			161.29- 221.29	190.90
5.819	5.819 (0.722)	98	1901113			0.00- 30.00	64.07

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	7399580	200.000	200.21	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	5190295			0.00- 30.00	70.14
6.151	6.151 (0.763)	86	869671			0.00- 30.00	11.75
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	6071513	200.000	200.88	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	65	1866369			1.33- 61.33	30.74
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1414357	200.000	191.94	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	9324041			613.01- 673.01	659.24
7.644	7.644 (0.949)	57	666426			0.00- 30.00	47.12
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	4751140	200.000	198.93	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	2718491			27.71- 87.71	57.22
7.617	7.617 (0.945)	98	1740352			6.61- 66.61	36.63
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	5505205	200.000	181.09	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	1247858			0.00- 53.21	22.67
8.031	8.031 (0.997)	72	1377273			0.00- 30.00	25.02
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	5008883	200.000	197.21	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	3244202			35.04- 95.04	64.77
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	5269515	200.000	200.10	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	99	3379104			33.38- 93.38	64.13
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	3956006	200.000	200.92	70.00- 130.00	100.00(A)
8.391	8.391 (1.041)	56	7288123			154.90- 214.90	184.23
8.391	8.391 (1.041)	41	4006035			71.49- 131.49	101.26
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.151 (0.763)	86	869671	200.000	190.00	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	5190295			0.00- 30.00	596.81
6.151	6.151 (0.763)	42	2578387			0.00- 30.00	296.48
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	5101383	200.000	207.46	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	5264610			72.64- 132.64	103.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	20998956	200.000	203.28	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	6976372			0.00- 30.00	33.22
9.110	9.110 (1.130)	41	5466518			0.00- 30.00	26.03
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	7980043	200.000	203.13	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	77	1850823			0.00- 30.00	23.19
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.248 (0.933)	62	4341702	200.000	208.68	70.00- 130.00	100.00(A)
9.276	9.276 (0.936)	64	1337129			0.00- 30.00	30.80
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1005468	200.000	197.77	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	8695683			0.00- 30.00	864.84
9.469	9.469 (0.955)	71	3019856			0.00- 30.00	300.34
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	3285638	200.000	202.26	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	3383387			70.26- 130.26	102.98
10.326	10.326 (1.042)	97	2109167			31.23- 91.23	64.19
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	3528840	200.000	206.05	70.00- 130.00	100.00(A)
10.824	10.824 (1.092)	62	2579416			44.39- 104.39	73.10
10.824	10.824 (1.092)	41	2435231			40.61- 100.61	69.01
99 1,4-Dioxane					CAS #: 123-91-1		
11.045	11.045 (1.114)	88	1910647	200.000	196.59	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	1977531			72.11- 132.11	103.50
11.045	11.045 (1.114)	57	630860			0.00- 30.00	33.02
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	5101016	200.000	207.23	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	3225598			35.07- 95.07	63.23
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.289	12.289 (1.240)	75	3959741	200.000	214.74	70.00- 130.00	100.00(A)
12.289	12.289 (1.240)	77	1251859			2.12- 62.12	31.61
12.289	12.289 (1.240)	39	3067662			49.06- 109.06	77.47
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	3395999	200.000	182.96	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	9686886			0.00- 30.00	285.24
12.594	12.594 (1.271)	85	1088571			0.00- 30.00	32.05

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	8645737	200.000	204.67	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	5179437			29.46- 89.46	59.91
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	4118402	200.000	241.79	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1301731			1.57- 61.57	31.61
13.340	13.340 (0.889)	39	3003908			42.45- 102.45	72.94
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2945063	200.000	205.18	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	1804846			31.96- 91.96	61.28
13.644	13.644 (0.910)	83	2464572			54.01- 114.01	83.68
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	3734999	200.000	206.44	70.00- 130.00	100.00(A)
13.672	13.672 (0.912)	129	3060700			50.41- 110.41	81.95
13.672	13.672 (0.912)	131	2909184			48.45- 108.45	77.89
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	4891449	200.000	210.67	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	10096581			177.96- 237.96	206.41
14.004	14.004 (0.934)	100	760889			0.00- 30.00	15.56
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	5003849	200.000	218.11	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	3901699			0.00- 30.00	77.97
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	4698065	200.000	204.25	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	4440802			63.93- 123.93	94.52
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	7218313	200.000	210.51	70.00- 130.00	100.00(A)
15.027	15.027 (1.002)	114	2322601			3.06- 63.06	32.18
15.027	15.027 (1.002)	77	4281761			29.85- 89.85	59.32
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	3997124	200.000	201.53	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	12499894			0.00- 30.00	312.72
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	5015948	200.000	206.07	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	10100015			0.00- 30.00	201.36
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	4667128	200.000	199.58	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	10065692			181.03- 241.03	215.67
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	7648280	200.000	201.77	70.00- 130.00	100.00(A)
15.884	15.884 (1.059)	78	3930920			20.92- 80.92	51.40
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	4397834	200.000	218.52	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	2267391			21.58- 81.58	51.56
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	6526549	200.000	205.58	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	4150562			34.08- 94.08	63.60
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	15284902	200.000	213.23	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	4451435			0.00- 59.52	29.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	13385543	200.000	205.90	70.00- 130.00	100.00(A)
17.045	17.045 (1.136)	120	6479050			0.00- 30.00	48.40
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	11277781	200.000	210.75	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	5263288			16.93- 76.93	46.67
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	7229120	200.000	207.25	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	4606717			0.00- 30.00	63.72
17.764	17.764 (1.184)	111	3100898			0.00- 30.00	42.89
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	8918311	200.000	207.10	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	5608663			0.00- 30.00	62.89
17.847	17.847 (1.190)	111	3876731			0.00- 30.00	43.47
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	13838439	200.000	229.77	70.00- 130.00	100.00(A)
17.985	17.985 (1.199)	126	2844682			0.00- 30.00	20.56
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	7162531	200.000	199.47	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	4568738			32.68- 92.68	63.79
18.206	18.206 (1.214)	111	3075684			11.30- 71.30	42.94

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	5190154	200.000	193.30	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	4830263			65.42- 125.42	93.07
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	4164937	200.000	196.26	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	2610750			33.29- 93.29	62.68
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	16244236	200.000	205.42	70.00- 130.00	100.00(A)
16.824	16.824 (1.122)	120	3730525			0.00- 30.00	22.97
16.824	16.824 (1.122)	105	604473			0.00- 30.00	3.72
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	14239392	200.000	191.64	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	3792940			0.00- 30.00	26.64
16.326	16.326 (1.088)	51	2064379			0.00- 30.00	14.50
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14926087	200.000	152.77	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2647909			0.00- 30.00	17.74
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	6477559	200.000	189.42	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	4072302			0.00- 30.00	62.87
3.414	3.414 (0.424)	72	335439			0.00- 30.00	5.18
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1014506	200.000	179.14	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	8180784			0.00- 30.00	806.38
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	5091329	200.000	197.63	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	2432843			0.00- 30.00	47.78
10.547	10.547 (1.064)	55	6269610			0.00- 30.00	123.14

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5011714.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
Misc Info: 200ppbv

Calibration Date: 17-JAN-2008
Calibration Time: 15:15
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	230627	138376	322878	268998	16.64
92 1,4-Difluorobenze	903162	541897	1264427	1047667	16.00
125 Chlorobenzene-d5	808795	485277	1132313	907322	12.18

		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

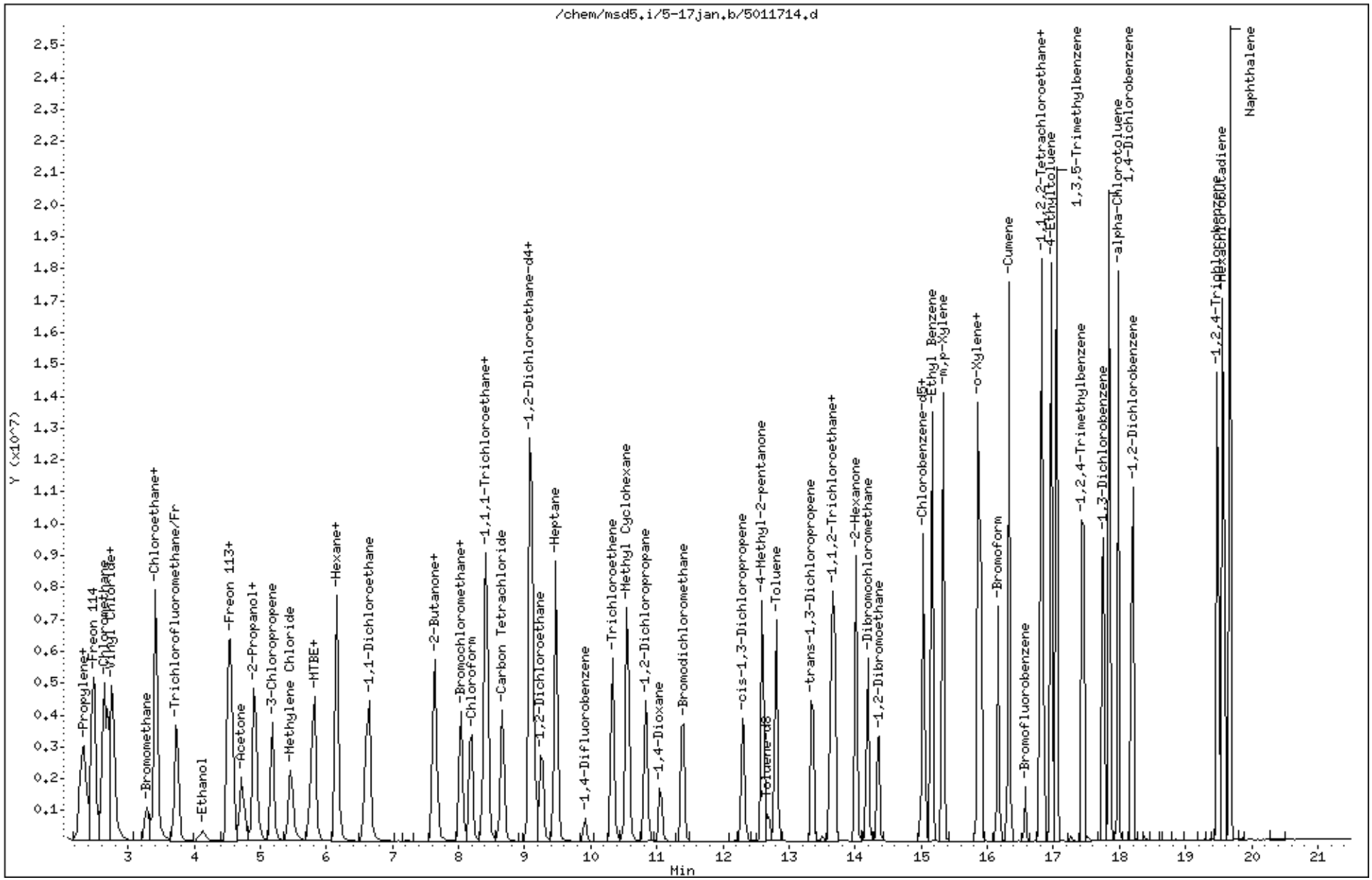
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-17jan.b/5011714.d
Date : 17-JAN-2008 16:16
Client ID: Level 7
Sample Info: 200mL #1576-198

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



0131

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801302-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/08 09:29 AM**	

Compound	%Recovery
Freon 12	87
Freon 114	98
Vinyl Chloride	95
Bromomethane	99
Chloroethane	90
Freon 11	100
1,1-Dichloroethene	111
Freon 113	109
Methylene Chloride	102
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	96
Chloroform	85
1,1,1-Trichloroethane	95
Carbon Tetrachloride	98
Benzene	91
1,2-Dichloroethane	101
Trichloroethene	95
1,2-Dichloropropane	95
cis-1,3-Dichloropropene	97
Toluene	98
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	94
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	86
Chlorobenzene	95
Ethyl Benzene	93
m,p-Xylene	94
o-Xylene	92
Styrene	89
1,1,2,2-Tetrachloroethane	89
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	88
1,3-Butadiene	86
Hexane	94
Cyclohexane	95

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801302-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/08 09:29 AM**	

Compound	**%Recovery**
Heptane	96
Bromodichloromethane	95
Dibromochloromethane	98
Cumene	86
Propylbenzene	93
Chloromethane	87
1,2,4-Trichlorobenzene	71
Hexachlorobutadiene	80
Acetone	91
Carbon Disulfide	95
2-Propanol	91
trans-1,2-Dichloroethene	96
2-Butanone (Methyl Ethyl Ketone)	86
Tetrahydrofuran	86
1,4-Dioxane	87
4-Methyl-2-pentanone	85
2-Hexanone	90
Bromoform	99
4-Ethyltoluene	92
Ethanol	94
Methyl tert-butyl ether	82
3-Chloropropene	93
2,2,4-Trimethylpentane	94
Naphthalene	69 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 21-JAN-2008 09:29
Lab File ID: 5012102.d Init. Cal. Date(s): 17-JAN-2008 17-JAN-2008
Analysis Type: AIR Init. Cal. Times: 13:25 17:51
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-21jan.b/t14q117a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.60033	1.52115	0.010	4.94823	30.00000	Averaged
$ 107 Toluene-d8	0.95450	0.93442	0.010	2.10397	30.00000	Averaged
$ 138 Bromofluorobenzene	0.59179	0.58146	0.010	1.74495	30.00000	Averaged
6 Propylene	1.81660	1.69021	0.010	6.95748	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.91699	2.53623	0.010	13.05308	30.00000	Averaged
9 Freon 114	2.52448	2.47058	0.010	2.13503	30.00000	Averaged
10 Chloromethane	2.29949	2.00814	0.010	12.67030	30.00000	Averaged
13 Vinyl Chloride	1.94727	1.85221	0.010	4.88164	30.00000	Averaged
12 1,3-Butadiene	1.99123	1.70765	0.010	14.24148	30.00000	Averaged
15 Bromomethane	1.08677	1.07397	0.010	1.17746	30.00000	Averaged
19 Chloroethane	0.93845	0.84346	0.010	10.12254	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.24357	3.23805	0.010	0.17035	30.00000	Averaged
26 Ethanol	0.80174	0.75232	0.010	6.16398	30.00000	Averaged
30 Freon 113	1.82361	1.98260	0.010	-8.71822	30.00000	Averaged
31 1,1-Dichloroethene	2.56587	2.85078	0.010	-11.10389	30.00000	Averaged
32 Acetone	0.98718	0.89658	0.010	9.17787	30.00000	Averaged
36 2-Propanol	3.91166	3.55028	0.010	9.23863	30.00000	Averaged
35 Carbon Disulfide	3.71285	3.52096	0.010	5.16832	30.00000	Averaged
38 3-Chloropropene	0.64872	0.60145	0.010	7.28791	30.00000	Averaged
43 Methylene Chloride	2.24048	2.28163	0.010	-1.83660	30.00000	Averaged
46 MTBE	2.13420	1.75308	0.010	17.85792	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.37724	1.31678	0.010	4.39044	30.00000	Averaged
51 Hexane	3.43490	3.23371	0.010	5.85724	30.00000	Averaged
55 1,1-Dichloroethane	2.80904	2.82527	0.010	-0.57770	30.00000	Averaged
67 2-Butanone	0.68482	0.58883	0.010	14.01734	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.21967	2.12008	0.010	4.48638	30.00000	Averaged
70 Tetrahydrofuran	2.82527	2.44415	0.010	13.48994	30.00000	Averaged
72 Chloroform	2.64787	2.24558	0.010	15.19275	30.00000	Averaged
75 1,1,1-Trichloroethane	2.44747	2.32167	0.010	5.14002	30.00000	Averaged
74 Cyclohexane	1.82989	1.73244	0.010	5.32578	30.00000	Averaged
56 Vinyl Acetate	0.42539	0.39638	0.010	6.81956	30.00000	Averaged
77 Carbon Tetrachloride	2.28526	2.22847	0.010	2.48478	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.60073	8.97831	0.010	6.48314	30.00000	Averaged
81 Benzene	1.01774	0.92615	0.010	8.99870	30.00000	Averaged
85 1,2-Dichloroethane	0.49646	0.50270	0.010	-1.25573	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 21-JAN-2008 09:29
Lab File ID: 5012102.d Init. Cal. Date(s): 17-JAN-2008 17-JAN-2008
Analysis Type: AIR Init. Cal. Times: 13:25 17:51
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-21jan.b/t14q117a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
90 Heptane	0.12132	0.11653	0.010	3.94351	30.00000	Averaged
93 Trichloroethene	0.38765	0.36950	0.010	4.68145	30.00000	Averaged
98 1,2-Dichloropropane	0.40867	0.39023	0.010	4.51278	30.00000	Averaged
99 1,4-Dioxane	0.23191	0.20236	0.010	12.74538	30.00000	Averaged
100 Bromodichloromethane	0.58739	0.55585	0.010	5.36959	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.44002	0.42828	0.010	2.66776	30.00000	Averaged
106 4-Methyl-2-pentanone	0.44291	0.37626	0.010	15.04936	30.00000	Averaged
108 Toluene	1.00802	0.99111	0.010	1.67777	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.46933	0.49986	0.010	-6.50558	30.00000	Averaged
114 1,1,2-Trichloroethane	0.39550	0.37044	0.010	6.33622	30.00000	Averaged
116 Tetrachloroethene	0.49851	0.49882	0.010	-0.06159	30.00000	Averaged
119 2-Hexanone	0.63974	0.57466	0.010	10.17366	30.00000	Averaged
120 Dibromochloromethane	0.63213	0.62106	0.010	1.75025	30.00000	Averaged
122 1,2-Dibromoethane	0.67203	0.57811	0.010	13.97605	30.00000	Averaged
126 Chlorobenzene	0.94480	0.89552	0.010	5.21602	30.00000	Averaged
128 Ethyl Benzene	0.54651	0.50831	0.010	6.98984	30.00000	Averaged
130 m,p-Xylene	0.67068	0.63295	0.010	5.62643	30.00000	Averaged
132 o-Xylene	0.64434	0.59191	0.010	8.13723	30.00000	Averaged
133 Styrene	1.04446	0.93399	0.010	10.57677	30.00000	Averaged
134 Bromoform	0.55453	0.54802	0.010	1.17387	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.87475	0.77780	0.010	11.08322	30.00000	Averaged
144 4-Ethyltoluene	1.97515	1.82735	0.010	7.48304	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.79125	1.64775	0.010	8.01121	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.47448	1.36882	0.010	7.16605	30.00000	Averaged
155 1,3-Dichlorobenzene	0.96112	0.87048	0.010	9.43026	30.00000	Averaged
156 1,4-Dichlorobenzene	1.18652	1.07296	0.010	9.57046	30.00000	Averaged
157 alpha-Chlorotoluene	1.65950	1.57402	0.010	5.15117	30.00000	Averaged
159 1,2-Dichlorobenzene	0.98939	0.87198	0.010	11.86676	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.73983	0.52778	0.010	28.66223	30.00000	Averaged
164 Hexachlorobutadiene	0.58473	0.47119	0.010	19.41808	30.00000	Averaged
142 Propylbenzene	2.17886	2.02158	0.010	7.21849	30.00000	Averaged
136 Cumene	2.04734	1.76676	0.010	13.70473	30.00000	Averaged
165 Naphthalene	2.69199	1.86747	0.010	30.62874	30.00000	Averaged <-
17 Isopentane	3.17810	2.86821	0.010	9.75057	30.00000	Averaged
11 Butane	0.52632	0.45659	0.010	13.24906	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 21-JAN-2008 09:29
Lab File ID: 5012102.d Init. Cal. Date(s): 17-JAN-2008 17-JAN-2008
Analysis Type: AIR Init. Cal. Times: 13:25 17:51
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-21jan.b/t14q117a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.61475	0.56866	0.010	7.49672	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21jan.b/5012102.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 21-JAN-2008 09:29
Operator : sjr Inst ID: msd5.i
Smp Info : 50mL #1576-227
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-21jan.b/t14q117a.m
Meth Date : 21-Jan-2008 10:21 sruth Quant Type: ISTD
Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	419468	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	315034			45.10- 105.10	75.10
8.059	8.059 (1.000)	49	937157			193.42- 253.42	223.42
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1605530	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	264046			0.00- 46.45	16.45
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1343995	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	768087			0.00- 30.00	57.15
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	638072	25.0000	23.763	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	358237			0.00- 30.00	56.14
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1500237	25.0000	24.474	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	159215			0.00- 30.00	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 (1.282)	100	1039054			0.00- 30.00	69.26
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	781482	25.0000	24.564	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1161405			118.62- 178.62	148.62
16.575	16.575 (1.105)	176	757983			66.99- 126.99	96.99
6 Propylene						CAS #: 115-07-1	
2.308	2.308 (0.286)	41	1417978	50.0000	46.521	80.00- 120.00	100.00
2.308	2.308 (0.286)	42	945165			0.00- 30.00	66.66
2.308	2.308 (0.286)	39	972399			0.00- 30.00	68.58
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.363	2.363 (0.293)	85	2127735	50.0000	43.473	80.00- 120.00	100.00
2.363	2.363 (0.293)	87	682841			0.00- 30.00	32.09
9 Freon 114						CAS #: 76-14-2	
2.474	2.474 (0.307)	135	2072662	50.0000	48.932	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	662967			1.99- 61.99	31.99
10 Chloromethane						CAS #: 74-87-3	
2.612	2.612 (0.324)	50	1684702	50.0000	43.665	80.00- 120.00	100.00
2.612	2.612 (0.324)	52	518746			0.00- 30.00	30.79
13 Vinyl Chloride						CAS #: 75-01-4	
2.805	2.805 (0.348)	62	1553885	50.0000	47.559	80.00- 120.00	100.00
2.805	2.805 (0.348)	64	456002			0.00- 30.00	29.35
12 1,3-Butadiene						CAS #: 106-99-0	
2.778	2.778 (0.345)	54	1432612	50.0000	42.879	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	1569226			0.00- 30.00	109.54
15 Bromomethane						CAS #: 74-83-9	
3.303	3.303 (0.410)	94	900993	50.0000	49.411	80.00- 120.00	100.00
3.303	3.303 (0.410)	96	842397			63.50- 123.50	93.50
19 Chloroethane						CAS #: 75-00-3	
3.414	3.414 (0.424)	64	707606	50.0000	44.939	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	226078			0.00- 30.00	31.95
3.414	3.414 (0.424)	66	210322			0.00- 30.00	29.72
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.746	3.746 (0.465)	101	2716516	50.0000	49.915	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1746006			34.27- 94.27	64.27

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	631150	50.0000	46.918	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	123698			0.00- 30.00	19.60
4.105	4.105 (0.509)	46	255513			0.00- 30.00	40.48
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	1663273	50.0000	54.359	80.00- 120.00	100.00
4.547	4.547 (0.564)	153	1072815			34.50- 94.50	64.50
4.547	4.547 (0.564)	101	2142140			98.79- 158.79	128.79
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2391622	50.0000	55.552	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1099550			15.98- 75.98	45.98
4.575	4.575 (0.568)	98	703077			0.00- 59.40	29.40
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	752175	50.0000	45.411	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	2457231			0.00- 30.00	326.68
36 2-Propanol					CAS #: 67-63-0		
4.934	4.934 (0.612)	45	2978458	50.0000	45.381	80.00- 120.00	100.00
4.934	4.934 (0.612)	43	604445			0.00- 30.00	20.29
4.934	4.934 (0.612)	59	102636			0.00- 30.00	3.45
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2953859	50.0000	47.416	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	504574	50.0000	46.356	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	2308218			0.00- 30.00	457.46
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	1914141	50.0000	50.918	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	916089			17.86- 77.86	47.86
5.460	5.460 (0.677)	51	574534			0.00- 30.00	30.02
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	1470721	50.0000	41.071	80.00- 120.00	100.00
5.792	5.792 (0.719)	57	496136			3.73- 63.73	33.73
5.792	5.792 (0.719)	41	488267			0.00- 30.00	33.20
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1104691	50.0000	47.805	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	2110701			161.07- 221.07	191.07
5.819	5.819 (0.722)	98	699230			0.00- 30.00	63.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	2712874	50.0000	47.071	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	1906564			0.00- 30.00	70.28
6.179	6.179 (0.767)	86	332539			0.00- 30.00	12.26
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	2370220	50.0000	50.289	80.00- 120.00	100.00
6.621	6.621 (0.822)	65	713333			0.10- 60.10	30.10
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	493990	50.0000	42.991	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	3237888			625.46- 685.46	655.46
7.672	7.672 (0.952)	57	222447			0.00- 30.00	45.03
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.616	7.616 (0.945)	61	1778615	50.0000	47.757	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	1034273			28.15- 88.15	58.15
7.644	7.644 (0.949)	98	655102			6.83- 66.83	36.83
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2050482	50.0000	43.255	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	457137			0.00- 52.29	22.29
8.059	8.059 (1.000)	72	521422			0.00- 30.00	25.43
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1883902	50.0000	42.404	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1204822			33.95- 93.95	63.95
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1947736	50.0000	47.430	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1253816			34.37- 94.37	64.37
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1453405	50.0000	47.337	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2625047			150.61- 210.61	180.61
8.418	8.418 (1.045)	41	1453423			70.00- 130.00	100.00
56 Vinyl Acetate					CAS #: 108-05-4		
6.179	6.179 (0.767)	86	332539	50.0000	46.590	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	1906564			0.00- 30.00	573.34
6.179	6.179 (0.767)	42	959593			0.00- 30.00	288.57
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1869545	50.0000	48.758	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1916661			72.52- 132.52	102.52

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7532224	50.0000	46.758	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2498905			0.00- 30.00	33.18
9.110	9.110 (1.130)	41	1990978			0.00- 30.00	26.43
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2973936	50.0000	45.501	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	668883			0.00- 30.00	22.49
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	1614197	50.0000	50.628	80.00- 120.00	100.00
9.275	9.275 (0.936)	64	492713			0.00- 30.00	30.52
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	374195	50.0000	48.028	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	3170231			0.00- 30.00	847.21
9.497	9.497 (0.958)	71	1106028			0.00- 30.00	295.58
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1186480	50.0000	47.659	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1217236			72.59- 132.59	102.59
10.326	10.326 (1.042)	97	764726			34.45- 94.45	64.45
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.851 (1.095)	63	1253050	50.0000	47.744	80.00- 120.00	100.00
10.851	10.851 (1.095)	62	912665			42.84- 102.84	72.84
10.851	10.851 (1.095)	41	890039			41.03- 101.03	71.03
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	649775	50.0000	43.627	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	665572			72.43- 132.43	102.43
11.073	11.073 (1.117)	57	216798			0.00- 30.00	33.37
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.404 (1.151)	83	1784853	50.0000	47.315	80.00- 120.00	100.00
11.404	11.404 (1.151)	85	1129409			33.28- 93.28	63.28
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1375240	50.0000	48.666	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	438608			1.89- 61.89	31.89
12.317	12.317 (1.243)	39	1056295			46.81- 106.81	76.81
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	1208189	50.0000	42.475	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	3386946			0.00- 30.00	280.33
12.593	12.593 (1.271)	85	380002			0.00- 30.00	31.45

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	3182499	50.0000	49.161	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1913319			30.12- 90.12	60.12
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1343614	50.0000	53.253	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	427203			1.80- 61.80	31.80
13.368	13.368 (0.891)	39	962833			41.66- 101.66	71.66
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	995733	50.0000	46.832	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	633598			33.63- 93.63	63.63
13.644	13.644 (0.910)	83	847417			55.10- 115.10	85.10
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1340815	50.0000	50.031	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1084904			50.91- 110.91	80.91
13.699	13.699 (0.913)	131	1028795			46.73- 106.73	76.73
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1544676	50.0000	44.913	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	3172332			175.37- 235.37	205.37
14.031	14.031 (0.935)	100	247285			0.00- 30.00	16.01
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1669410	50.0000	49.125	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1285637			0.00- 30.00	77.01
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1553952	50.0000	43.012	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1445876			63.05- 123.05	93.05
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2407155	50.0000	47.392	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	774087			2.16- 62.16	32.16
15.027	15.027 (1.002)	77	1447431			30.13- 90.13	60.13
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1366320	50.0000	46.505	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4226251			0.00- 30.00	309.32
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1701359	50.0000	47.187	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3432014			0.00- 30.00	201.72
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1591045	50.0000	45.931	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	3404198			183.96- 243.96	213.96
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2510553	50.0000	44.712	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1295262			21.59- 81.59	51.59
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1473075	50.0000	49.413	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	750584			20.95- 80.95	50.95
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2090726	50.0000	44.458	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1308682			32.59- 92.59	62.59
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4911905	50.0000	46.258	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1446375			0.00- 59.45	29.45
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4429131	50.0000	45.994	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2116183			0.00- 30.00	47.78
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3679363	50.0000	46.417	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1695629			16.08- 76.08	46.08
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2339843	50.0000	45.285	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1476823			0.00- 30.00	63.12
17.764	17.764 (1.184)	111	976567			0.00- 30.00	41.74
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2884114	50.0000	45.215	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1790762			0.00- 30.00	62.09
17.847	17.847 (1.190)	111	1220590			0.00- 30.00	42.32
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4230944	50.0000	47.424	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	888656			0.00- 30.00	21.00
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2343882	50.0000	44.067	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1493192			33.71- 93.71	63.71
18.206	18.206 (1.214)	111	986324			12.08- 72.08	42.08

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	1418659	50.0000	35.669	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1361436			65.97- 125.97	95.97
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1266548	50.0000	40.291	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	786356			32.09- 92.09	62.09
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5433976	50.0000	46.391	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1259831			0.00- 30.00	23.18
16.824	16.824 (1.122)	105	203438			0.00- 30.00	3.74
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4749036	50.0000	43.148	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1273523			0.00- 30.00	26.82
16.326	16.326 (1.088)	51	690414			0.00- 30.00	14.54
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5019735	50.0000	34.686	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	612496			0.00- 30.00	12.20
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.427)	43	2406247	50.0000	45.125	80.00- 120.00	100.00
3.441	3.441 (0.427)	57	1498309			0.00- 30.00	62.27
3.441	3.441 (0.427)	72	135701			0.00- 30.00	5.64
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	383048	50.0000	43.375	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	3105082			0.00- 30.00	810.62
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1826004	50.0000	46.252	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	872285			0.00- 30.00	47.77
10.547	10.547 (1.064)	55	2229408			0.00- 30.00	122.09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5012102.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-JAN-2008
Calibration Time: 09:29
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	419468	251681	587255	419468	0.00
92 1,4-Difluorobenze	1605530	963318	2247742	1605530	0.00
125 Chlorobenzene-d5	1343995	806397	1881593	1343995	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

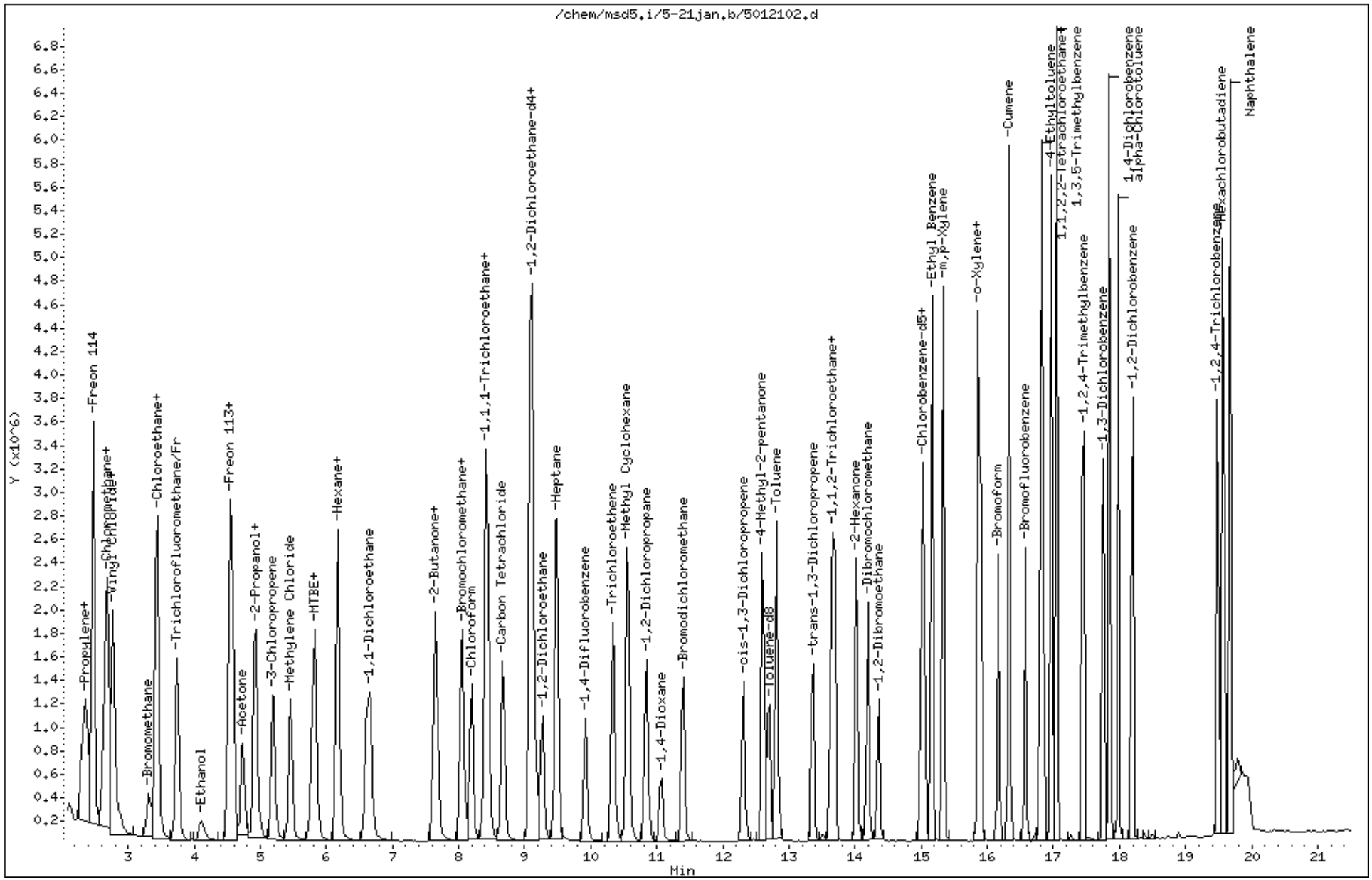
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-21jan.b/5012102.d
Date : 21-JAN-2008 09:29
Client ID: CCV-1
Sample Info: 50mL #1576-227

Instrument: msd5.i

Operator: sjr
Column diameter: 0.53

Column phase: RTx-624



0146

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801302-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/08 09:56 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	86
Vinyl Chloride	85
Bromomethane	91
Chloroethane	74
Freon 11	89
1,1-Dichloroethene	99
Freon 113	97
Methylene Chloride	92
1,1-Dichloroethane	92
cis-1,2-Dichloroethene	87
Chloroform	75
1,1,1-Trichloroethane	87
Carbon Tetrachloride	87
Benzene	81
1,2-Dichloroethane	92
Trichloroethene	88
1,2-Dichloropropane	85
cis-1,3-Dichloropropene	88
Toluene	89
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	85
Tetrachloroethene	90
1,2-Dibromoethane (EDB)	78
Chlorobenzene	89
Ethyl Benzene	84
m,p-Xylene	87
o-Xylene	85
Styrene	82
1,1,2,2-Tetrachloroethane	84
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	83
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	83
1,3-Butadiene	79
Hexane	85
Cyclohexane	86

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801302-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5012103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/21/08 09:56 AM**	

Compound	%Recovery
Heptane	84
Bromodichloromethane	85
Dibromochloromethane	90
Cumene	83
Propylbenzene	88
Chloromethane	81
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	79
Acetone	81
Carbon Disulfide	89
2-Propanol	85
trans-1,2-Dichloroethene	84
2-Butanone (Methyl Ethyl Ketone)	82
Tetrahydrofuran	76
1,4-Dioxane	83
4-Methyl-2-pentanone	78
2-Hexanone	83
Bromoform	93
4-Ethyltoluene	91
Ethanol	81
Methyl tert-butyl ether	63
3-Chloropropene	82
2,2,4-Trimethylpentane	86
Naphthalene	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 21-Jan-2008 10:24

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	42.199	84.40	70-130
9 Freon 114	50.000	43.167	86.33	70-130
10 Chloromethane	50.000	40.322	80.64	70-130
13 Vinyl Chloride	50.000	42.566	85.13	70-130
12 1,3-Butadiene	50.000	39.535	79.07	60-140
15 Bromomethane	50.000	45.380	90.76	70-130
19 Chloroethane	50.000	37.048	74.10	70-130
20 Trichlorofluoromet	50.000	44.481	88.96	70-130
26 Ethanol	50.000	40.538	81.08	60-140
30 Freon 113	50.000	48.658	97.32	70-130
31 1,1-Dichloroethene	50.000	49.493	98.99	70-130
35 Carbon Disulfide	50.000	44.400	88.80	60-140
32 Acetone	50.000	40.690	81.38	60-140
36 2-Propanol	50.000	42.568	85.14	60-140
38 3-Chloropropene	50.000	40.904	81.81	60-140
43 Methylene Chloride	50.000	45.986	91.97	70-130
46 MTBE	50.000	31.684	63.37	60-140
47 trans-1,2-Dichloro	50.000	42.120	84.24	60-140
51 Hexane	50.000	42.643	85.29	60-140
55 1,1-Dichloroethane	50.000	45.754	91.51	70-130
66 cis-1,2-Dichloroet	50.000	43.545	87.09	70-130
67 2-Butanone	50.000	41.136	82.27	60-140
70 Tetrahydrofuran	50.000	38.145	76.29	60-140
72 Chloroform	50.000	37.642	75.28	70-130
74 Cyclohexane	50.000	42.792	85.58	60-140
75 1,1,1-Trichloroeth	50.000	43.410	86.82	70-130
56 Vinyl Acetate	50.000	41.897	83.79	60-140
77 Carbon Tetrachlori	50.000	43.542	87.08	70-130
80 2,2,4-Trimethylpen	50.000	42.831	85.66	60-140
81 Benzene	50.000	40.456	80.91	70-130
85 1,2-Dichloroethane	50.000	45.789	91.58	70-130
90 Heptane	50.000	42.128	84.26	60-140
93 Trichloroethene	50.000	44.249	88.50	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	42.606	85.21	70-130
99 1,4-Dioxane	50.000	41.692	83.38	60-140
100 Bromodichlorometha	50.000	42.717	85.43	60-140
103 cis-1,3-Dichloropr	50.000	44.082	88.16	70-130
106 4-Methyl-2-pentano	50.000	39.028	78.06	60-140
108 Toluene	50.000	44.628	89.26	70-130
113 trans-1,3-Dichloro	50.000	47.697	95.39	70-130
114 1,1,2-Trichloroeth	50.000	42.603	85.21	70-130
116 Tetrachloroethene	50.000	44.855	89.71	70-130
119 2-Hexanone	50.000	41.576	83.15	60-140
120 Dibromochlorometha	50.000	45.102	90.20	60-140
122 1,2-Dibromoethane	50.000	39.041	78.08	70-130
126 Chlorobenzene	50.000	44.710	89.42	70-130
128 Ethyl Benzene	50.000	42.201	84.40	70-130
130 m,p-Xylene	50.000	43.315	86.63	70-130
132 o-Xylene	50.000	42.591	85.18	70-130
133 Styrene	50.000	41.002	82.00	70-130
134 Bromoform	50.000	46.494	92.99	60-140
136 Cumene	50.000	41.602	83.20	60-140
141 1,1,2,2-Tetrachlor	50.000	41.766	83.53	70-130
142 Propylbenzene	50.000	44.074	88.15	60-140
144 4-Ethyltoluene	50.000	45.372	90.74	60-140
147 1,3,5-Trimethylben	50.000	43.626	87.25	70-130
152 1,2,4-Trimethylben	50.000	43.054	86.11	70-130
155 1,3-Dichlorobenzen	50.000	41.581	83.16	70-130
156 1,4-Dichlorobenzen	50.000	43.882	87.76	70-130
157 alpha-Chlorotoluen	50.000	45.260	90.52	70-130
159 1,2-Dichlorobenzen	50.000	41.632	83.26	70-130
163 1,2,4-Trichloroben	50.000	40.703	81.41	70-130
164 Hexachlorobutadien	50.000	39.627	79.25	70-130
6 Propylene	50.000	43.658	87.32	70-130
165 Naphthalene	50.000	40.932	81.86	60-140
11 Butane	50.000	41.386	82.77	70-130
17 Isopentane	50.000	39.953	79.91	70-130
94 Methyl Cyclohexane	50.000	41.732	83.46	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.039	96.16	70-130
$ 107 Toluene-d8	25.000	24.185	96.74	70-130
$ 138 Bromofluorobenzene	25.000	24.649	98.60	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21jan.b/5012103.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 21-JAN-2008 09:56
Operator : sjr Inst ID: msd5.i
Smp Info : 50mL #1576-172
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-21jan.b/t14q117a.m
Meth Date : 21-Jan-2008 10:21 sruth Quant Type: ISTD
Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	306705	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	236907			45.10- 105.10	77.24
8.031	8.059 (1.000)	49	674468			193.42- 253.42	219.91
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1187538	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	199163			0.00- 46.45	16.77
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1012885	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	595040			0.00- 30.00	58.75
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137 (1.130)	65	471959	24.0388	24.039	80.00- 120.00	100.00
9.110	9.137 (1.130)	67	249959			0.00- 30.00	52.96
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.676	12.704 (1.279)	98	1096544	24.1848	24.185	80.00- 120.00	100.00
12.676	12.704 (1.279)	70	126254			0.00- 30.00	11.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.676	12.704 (1.279)	100	758594			0.00- 30.00	69.18
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	591005	24.6493	24.649	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	842078			118.62- 178.62	142.48
16.575	16.575 (1.105)	176	577058			66.99- 126.99	97.64
6 Propylene						CAS #: 115-07-1	
2.280	2.308 (0.283)	41	972989	43.6584	43.658	80.00- 120.00	100.00
2.280	2.308 (0.283)	42	628736			0.00- 30.00	64.62
2.280	2.308 (0.283)	39	659503			0.00- 30.00	67.78
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.335	2.363 (0.290)	85	1510127	42.1986	42.199	80.00- 120.00	100.00
2.335	2.363 (0.290)	87	470548			0.00- 30.00	31.16
9 Freon 114						CAS #: 76-14-2	
2.446	2.474 (0.304)	135	1336909	43.1667	43.167	80.00- 120.00	100.00
2.446	2.474 (0.304)	137	420912			1.99- 61.99	31.48
10 Chloromethane						CAS #: 74-87-3	
2.584	2.612 (0.321)	50	1137507	40.3219	40.322	80.00- 120.00	100.00
2.584	2.612 (0.321)	52	351462			0.00- 30.00	30.90
13 Vinyl Chloride						CAS #: 75-01-4	
2.778	2.805 (0.345)	62	1016869	42.5656	42.566	80.00- 120.00	100.00
2.750	2.805 (0.341)	64	302520			0.00- 30.00	29.75
12 1,3-Butadiene						CAS #: 106-99-0	
2.750	2.778 (0.341)	54	965795	39.5350	39.535	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	1065469			0.00- 30.00	110.32
15 Bromomethane						CAS #: 74-83-9	
3.276	3.303 (0.406)	94	605035	45.3799	45.380	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	561160			63.50- 123.50	92.75
19 Chloroethane						CAS #: 75-00-3	
3.386	3.414 (0.420)	64	426541	37.0483	37.048	80.00- 120.00	100.00
3.386	3.414 (0.420)	49	136323			0.00- 30.00	31.96
3.386	3.414 (0.420)	66	131554			0.00- 30.00	30.84
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.718	3.746 (0.461)	101	1770018	44.4808	44.481	80.00- 120.00	100.00
3.718	3.746 (0.461)	103	1139462			34.27- 94.27	64.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.105 (0.506)	45	398728	40.5379	40.538	80.00- 120.00	100.00
4.077	4.105 (0.506)	43	63617			0.00- 30.00	15.95
4.077	4.105 (0.506)	46	171434			0.00- 30.00	43.00
30 Freon 113					CAS #: 76-13-1		
4.520	4.547 (0.561)	151	1088605	48.6583	48.658	80.00- 120.00	100.00
4.520	4.547 (0.561)	153	709073			34.50- 94.50	65.14
4.520	4.547 (0.561)	101	1448022			98.79- 158.79	133.02
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.547	4.575 (0.564)	61	1557961	49.4927	49.493	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	749195			15.98- 75.98	48.09
4.575	4.575 (0.568)	98	476770			0.00- 59.40	30.60
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	492800	40.6904	40.690	80.00- 120.00	100.00
4.713	4.741 (0.585)	43	1654522			0.00- 30.00	335.74
36 2-Propanol					CAS #: 67-63-0		
4.907	4.934 (0.609)	45	2042820	42.5684	42.568	80.00- 120.00	100.00
4.907	4.934 (0.609)	43	435674			0.00- 30.00	21.33
4.907	4.934 (0.609)	59	65611			0.00- 30.00	3.21
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2022397	44.3995	44.400	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.211 (0.643)	76	325540	40.9038	40.904	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	1505927			0.00- 30.00	462.59
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	1263993	45.9857	45.986	80.00- 120.00	100.00
5.432	5.460 (0.674)	84	615013			17.86- 77.86	48.66
5.432	5.460 (0.674)	51	395074			0.00- 30.00	31.26
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	829570	31.6837	31.684	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	282420			3.73- 63.73	34.04
5.764	5.792 (0.715)	41	283344			0.00- 30.00	34.16
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	711671	42.1199	42.120	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1401927			161.07- 221.07	196.99
5.819	5.819 (0.722)	98	469838			0.00- 30.00	66.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.179 (0.763)	57	1796995	42.6434	42.643	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	1276907			0.00- 30.00	71.06
6.151	6.179 (0.763)	86	218651			0.00- 30.00	12.17
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	1576758	45.7537	45.754	80.00- 120.00	100.00
6.593	6.621 (0.818)	65	471843			0.10- 60.10	29.92
67 2-Butanone					CAS #: 78-93-3		
7.644	7.672 (0.949)	72	345607	41.1361	41.136	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	2179142			625.46- 685.46	630.53
7.644	7.672 (0.949)	57	153265			0.00- 30.00	44.35
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.616 (0.945)	61	1185795	43.5453	43.545	80.00- 120.00	100.00
7.617	7.644 (0.945)	96	675463			28.15- 88.15	56.96
7.617	7.644 (0.945)	98	434035			6.83- 66.83	36.60
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1322159	38.1454	38.145	80.00- 120.00	100.00
8.031	8.059 (0.997)	71	303703			0.00- 52.29	22.97
8.031	8.059 (0.997)	72	316039			0.00- 30.00	23.90
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1222781	37.6419	37.642	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	811453			33.95- 93.95	66.36
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.446 (1.045)	97	1303419	43.4095	43.410	80.00- 120.00	100.00
8.418	8.446 (1.045)	99	809076			34.37- 94.37	62.07
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.418 (1.041)	84	960663	42.7922	42.792	80.00- 120.00	100.00
8.391	8.418 (1.041)	56	1776019			150.61- 210.61	184.87
8.391	8.418 (1.041)	41	970539			70.00- 130.00	101.03
56 Vinyl Acetate					CAS #: 108-05-4		
6.151	6.179 (0.763)	86	218651	41.8969	41.897	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	1276907			0.00- 30.00	583.99
6.151	6.179 (0.763)	42	618606			0.00- 30.00	282.92
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1220740	43.5419	43.542	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1280102			72.52- 132.52	104.86

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	9.110 (1.127)	57	5044811	42.8311	42.831	80.00- 120.00	100.00
9.082	9.110 (1.127)	56	1669583			0.00- 30.00	33.10
9.082	9.110 (1.127)	41	1325373			0.00- 30.00	26.27
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1955834	40.4566	40.456	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	461636			0.00- 30.00	23.60
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.248	9.275 (0.933)	62	1079833	45.7889	45.789	80.00- 120.00	100.00
9.248	9.275 (0.933)	64	324035			0.00- 30.00	30.01
90 Heptane					CAS #: 142-82-5		
9.469	9.497 (0.955)	100	242774	42.1281	42.128	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2056719			0.00- 30.00	847.17
9.469	9.497 (0.955)	71	729528			0.00- 30.00	300.50
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	814795	44.2493	44.249	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	824224			72.59- 132.59	101.16
10.326	10.326 (1.042)	97	516408			34.45- 94.45	63.38
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.851 (1.092)	63	827084	42.6057	42.606	80.00- 120.00	100.00
10.824	10.851 (1.092)	62	603111			42.84- 102.84	72.92
10.824	10.851 (1.092)	41	587115			41.03- 101.03	70.99
99 1,4-Dioxane					CAS #: 123-91-1		
11.045	11.073 (1.114)	88	459287	41.6918	41.692	80.00- 120.00	100.00
11.045	11.073 (1.114)	58	446058			72.43- 132.43	97.12
11.045	11.073 (1.114)	57	147790			0.00- 30.00	32.18
100 Bromodichloromethane					CAS #: 75-27-4		
11.377	11.404 (1.148)	83	1191868	42.7167	42.717	80.00- 120.00	100.00
11.404	11.404 (1.151)	85	768529			33.28- 93.28	64.48
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.289	12.317 (1.240)	75	921393	44.0823	44.082	80.00- 120.00	100.00
12.289	12.317 (1.240)	77	293472			1.89- 61.89	31.85
12.289	12.317 (1.240)	39	707547			46.81- 106.81	76.79
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	821112	39.0279	39.028	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2339881			0.00- 30.00	284.96
12.593	12.593 (1.271)	85	252946			0.00- 30.00	30.81

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	2136888	44.6279	44.628	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1303280			30.12- 90.12	60.99
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	906958	47.6972	47.697	80.00- 120.00	100.00
13.340	13.368 (0.889)	77	288677			1.80- 61.80	31.83
13.340	13.368 (0.889)	39	660595			41.66- 101.66	72.84
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	682665	42.6034	42.603	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	431829			33.63- 93.63	63.26
13.644	13.644 (0.910)	83	575439			55.10- 115.10	84.29
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	905948	44.8548	44.855	80.00- 120.00	100.00
13.672	13.699 (0.912)	129	740232			50.91- 110.91	81.71
13.672	13.699 (0.912)	131	710679			46.73- 106.73	78.45
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1077637	41.5763	41.576	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2229433			175.37- 235.37	206.88
14.004	14.031 (0.934)	100	171493			0.00- 30.00	15.91
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1155103	45.1021	45.102	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	888412			0.00- 30.00	76.91
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.335	14.363 (0.956)	107	1063007	39.0414	39.041	80.00- 120.00	100.00
14.335	14.363 (0.956)	109	1005881			63.05- 123.05	94.63
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1711472	44.7104	44.710	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	545709			2.16- 62.16	31.89
15.027	15.027 (1.002)	77	1018811			30.13- 90.13	59.53
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	934418	42.2014	42.201	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2911039			0.00- 30.00	311.53
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1176999	43.3150	43.315	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2357412			0.00- 30.00	200.29
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1111866	42.5909	42.591	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	2382516			183.96- 243.96	214.28
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1735058	41.0018	41.002	80.00- 120.00	100.00
15.884	15.911 (1.059)	78	900291			21.59- 81.59	51.89
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1044579	46.4939	46.494	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	528492			20.95- 80.95	50.59
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1480214	41.7656	41.766	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	968504			32.59- 92.59	65.43
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3630854	45.3720	45.372	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1057620			0.00- 59.45	29.13
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3166048	43.6256	43.626	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1517751			0.00- 30.00	47.94
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2571995	43.0538	43.054	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1182747			16.08- 76.08	45.99
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1619159	41.5809	41.581	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1068828			0.00- 30.00	66.01
17.764	17.764 (1.184)	111	725301			0.00- 30.00	44.79
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2109523	43.8823	43.882	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1320847			0.00- 30.00	62.61
17.847	17.847 (1.190)	111	874028			0.00- 30.00	41.43
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3043064	45.2599	45.260	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	643852			0.00- 30.00	21.16
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1668843	41.6320	41.632	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1070317			33.71- 93.71	64.14
18.206	18.206 (1.214)	111	696496			12.08- 72.08	41.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.506 (1.299)	180	1220045	40.7029	40.703	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1155135			65.97- 125.97	94.68
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	938791	39.6271	39.627	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	594598			32.09- 92.09	63.34
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3890693	44.0736	44.074	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	903381			0.00- 30.00	23.22
16.824	16.824 (1.122)	105	144717			0.00- 30.00	3.72
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3450816	41.6017	41.602	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	921385			0.00- 30.00	26.70
16.326	16.326 (1.088)	51	490297			0.00- 30.00	14.21
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4464309	40.9318	40.932	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	571474			0.00- 30.00	12.80
17 Isopentane					CAS #: 78-78-4		
3.414	3.441 (0.424)	43	1557747	39.9530	39.953	80.00- 120.00	100.00
3.414	3.441 (0.424)	57	979552			0.00- 30.00	62.88
3.414	3.441 (0.424)	72	85810			0.00- 30.00	5.51
11 Butane					CAS #: 106-97-8		
2.667	2.695 (0.331)	58	267231	41.3862	41.386	80.00- 120.00	100.00
2.667	2.695 (0.331)	43	2077968			0.00- 30.00	777.59
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1218630	41.7319	41.732	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	577085			0.00- 30.00	47.36
10.547	10.547 (1.064)	55	1508047			0.00- 30.00	123.75

Report Date: 21-Jan-2008 10:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5012103.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /var/chem/msd5.i/5-21jan.b/t14q117a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-JAN-2008
Calibration Time: 09:29
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

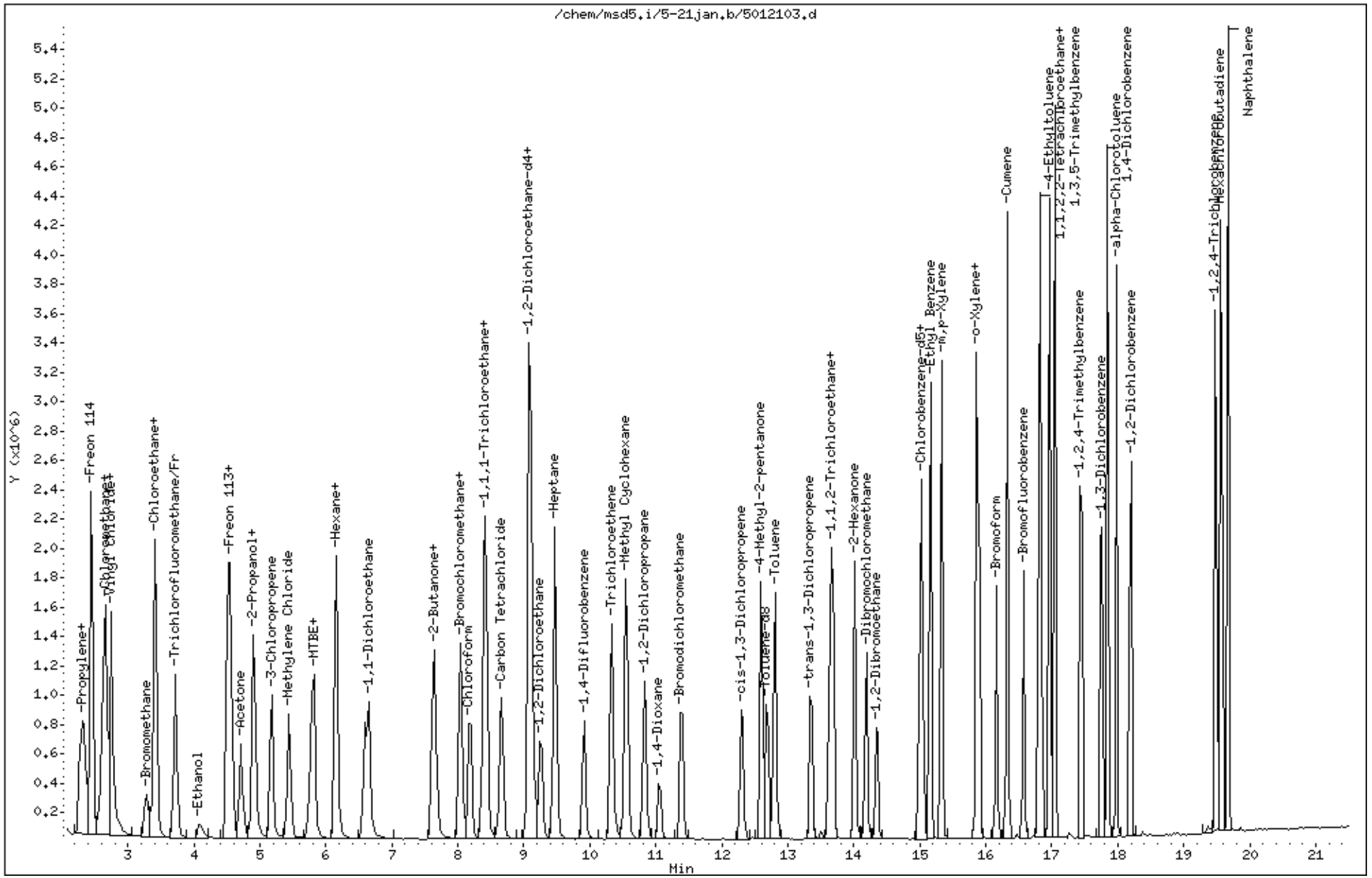
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	419468	251681	587255	306705	-26.88
92 1,4-Difluorobenze	1605530	963318	2247742	1187538	-26.03
125 Chlorobenzene-d5	1343995	806397	1881593	1012885	-24.64

		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/5-21jan.b/5012103.d
Date : 21-JAN-2008 09:56
Client ID: LCS-1
Sample Info: 50mL #1576-172

Instrument: msd5.i
Operator: sjr
Column phase: RTx-624
Column diameter: 0.53



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MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.14
75	30.0 – 60.0% of mass 95	48.81
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	6.86
173	Less than 2.0% of mass 174	(1.00)[1]
174	Greater than 50.0% of mass 95	66.88
175	5.0 – 9.0% of mass 174	(7.26)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.79)[1]
177	5.0 – 9.0% of mass 176	(6.46)[2]

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

BFB Injection Date: 5/21/08
BFB Injection Time: 0834
BFB File ID: 5012101
Tekmar Purge Flow: —
Vacuum: — [initials] 5/21/08

IS/S Std.#: 1541-8	Exp. Date: 4-9-08
BCM	419468
1,4-DFB	1605530
CB-d5	1343995

Verified CCV IS vs ICAL mid-point (- 40%D) [initials] Initials

Verify 176/174 m/z Ratio: 1194166 / 1246605 x 100 = 95.79

NOAH Cart #: ~~N/A~~ 4/7 **File #:** ~~N/A~~ X012108 / X012109

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1500237)}{(1605530)} \times \frac{(25.0)}{(0.95450)} = 24.474$

Reported Result 24.474

File ID:	5012102
Compound:	Tol-d8
Initials:	[initials]

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5012101	BFB Tune Check	1476-191	50ng	2µL	1.00	5/21/08	0834	[initials]	
2	✓	02	CCV-1 (200ppbv)	1576-227	50ppbv	50mL			0929	[initials]	Naph ↓ <40
3	✓	03	LCS-1	1576-172					0956	[initials]	Ø out
4	✓	04	LCSD-1						1056	[initials]	↓
5	X	05	Lab blank	12941	Humid	200mL			1217	[initials]	Cart Cert #8 Leg 5
6	✓	06	↓	↓	↓	↓			1419	[initials]	Cart Cert #15 Leg 1
7	✓	07	0801268-01A	34202	[illegible]	90mL	813		1531	[initials]	200X
8	X	08	0801159A-01A	12953		1.0mL	366		1558	[initials]	RR @ 200mL
9	✓	09	-01A		↓	200mL	1.83	↓	1703	KR	

[signature]
Signature

5/21/08
Date

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

10	✓	5012110	0801159A-02A	25266	7.5"Hg-5psi	200mL	1.79	1/21/08	1736	KR		
11	✓	11	-02AA	↓	↓		↓		1809	KR		
12	✓	12	-03A	4234	7"Hg-5psi		1.75		1841	KR		
13	✓	13	-04A	4187	3"Hg-5psi		1.49		1914	KR		
14	✓	14	0801231-01A	34092	3.5"Hg-5psi		2.29		1947	KR		
15	✓	15	-01AA	↓	3.5"Hg-5psi		↓		2019	KR		
16	✓	16	0801302-01A	33790	5.5"Hg-5psi		1.64		2052	KR		
17	✓	17	-02A	31156	6.5"Hg-5psi	↓	1.71		2124	KR		
18	✓	18	0801185A-01A	13653	5.5"Hg-5psi	200mL	1.64		2302	CB		
19	✓	19	-02A	34422	50"Hg		1.61	↓	2334	CB		
20	✓	20	-03A	13852	50"Hg		1.61	1/22/08	0006	CB		
21	✓	4	-04A	35256	35"Hg		1.52		0039	CB		
22	✓	22	-05A	33541	15"Hg		1.41		0111	CB		
23	✓	23	-06A	33128	10psi		1.25		0144	CB		
24	✓	24	0801255A-01A	34019	20"Hg	↓	1.44		0216	CB		
25	X	25	0801256-01A	12286	60"Hg 15psi	10mL	5.6	✓	0247	—	MR @ 3mL	
26	✓	26	System Blank	12941	Humid	200mL	1.00		0609	CB		
27	✓	27	0801256-01A	12286	60"Hg 15psi	3.0mL	1.69	↓	0636	CB		
28												
29												
30												
31												
32												

0162 2010

Comments:

CB 1/22/08

Signature

1/22/08
Date

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-17jan.b/5011706.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 17-JAN-2008 12:25
Operator : cb Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-65 50 ng
Comment :
Method : /var/chem/msd5.i/5-17jan.b/bfb30.m
Meth Date : 17-Jan-2008 12:15 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		
3.789	3.900	-0.111	95	1628543			100.00- 100.00	100.00
3.789	3.900	-0.111	50	454878			15.00- 40.00	27.93
3.789	3.900	-0.111	75	782128			30.00- 60.00	48.03
3.789	3.900	-0.111	96	113233			5.00- 9.00	6.95
3.789	3.900	-0.111	173	11877			0.00- 2.00	1.13
3.789	3.900	-0.111	174	1046577			50.00- 100.00	64.26
3.789	3.900	-0.111	175	80813			5.00- 9.00	7.72
3.789	3.900	-0.111	176	1005912			95.00- 101.00	96.11
3.789	3.900	-0.111	177	66537			5.00- 9.00	6.61

Data File: /var/chem/msd5.i/5-17jan.b/5011706.d

Date : 17-JAN-2008 12:25

Client ID: BFB

Instrument: msd5.i

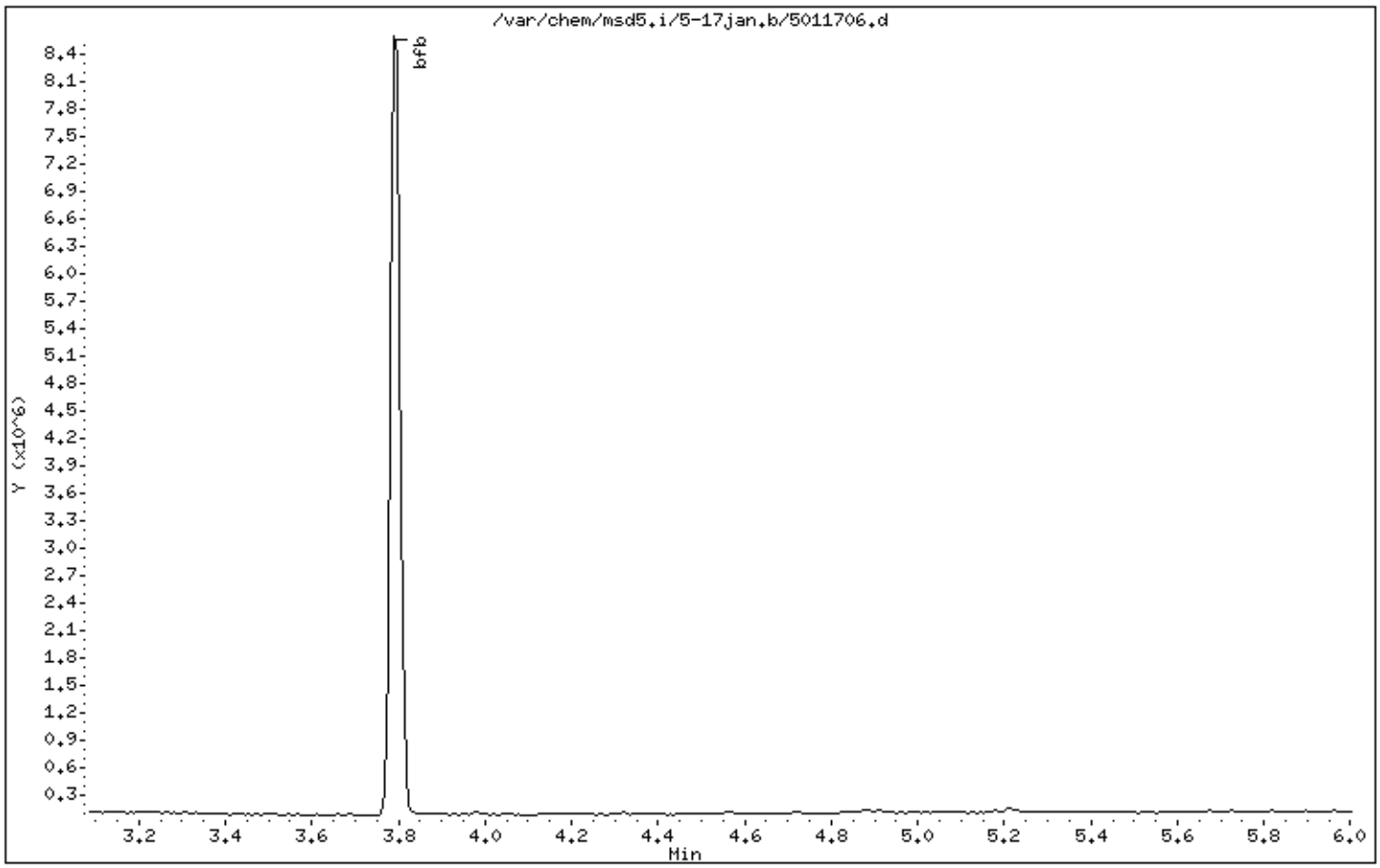
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-17jan.b/5011706.d

Date : 17-JAN-2008 12:25

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

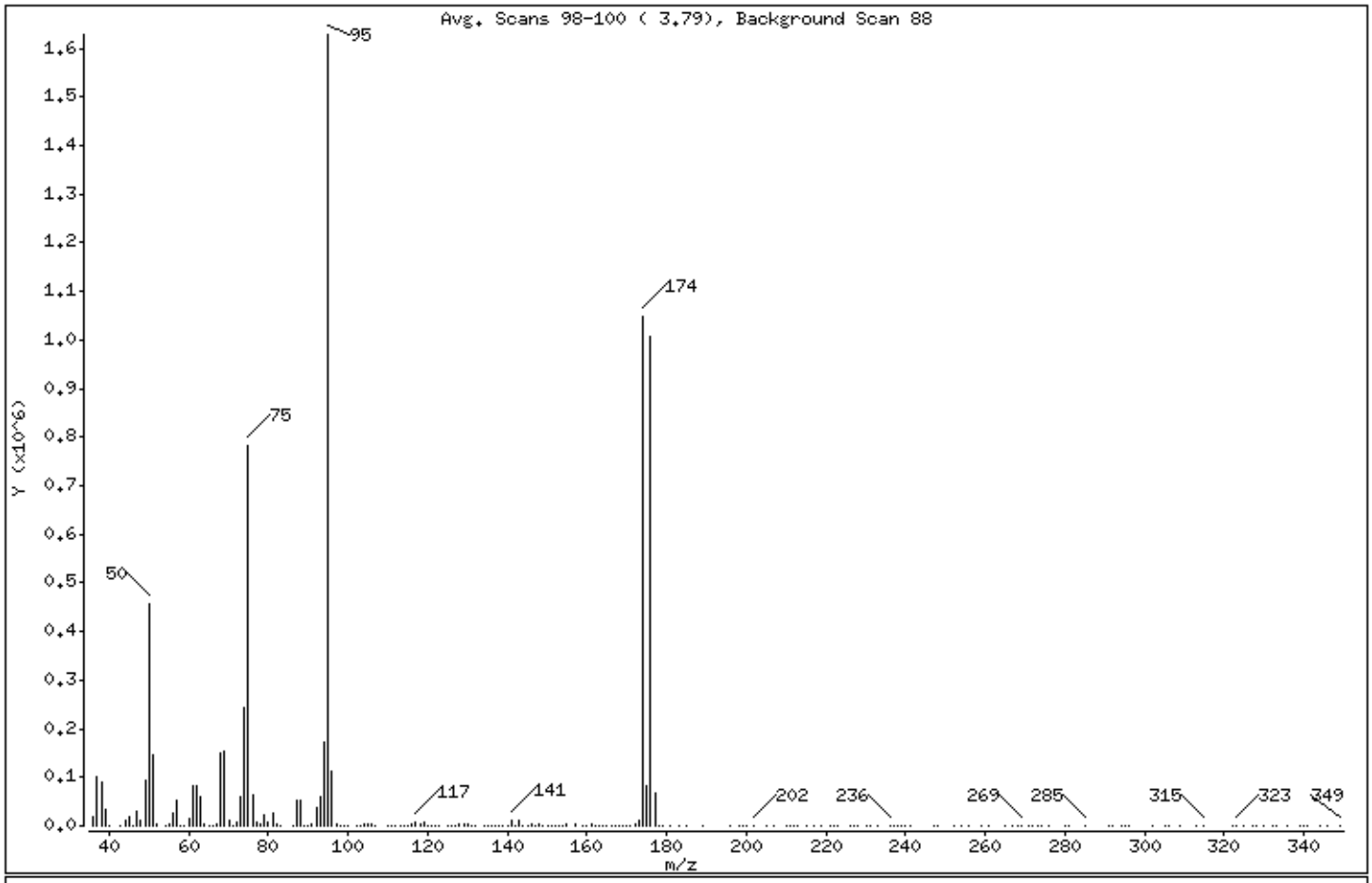
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.93
75	30.00 - 60.00% of mass 95	48.03
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.73 (1.13)
174	50.00 - 100.00% of mass 95	64.26
175	5.00 - 9.00% of mass 174	4.96 (7.72)
176	95.00 - 101.00% of mass 174	61.77 (96.11)
177	5.00 - 9.00% of mass 176	4.09 (6.61)

Date : 17-JAN-2008 12:25

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5011706.d
Spectrum: Avg. Scans 98-100 (3.79), Background Scan 88
Location of Maximum: 95.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	16968	94.00	171136	152.00	671	236.00	307
37.00	100424	95.00	1628160	153.00	1008	237.00	116
38.00	89216	96.00	113232	154.00	501	238.00	67
39.00	33320	97.00	2615	155.00	3005	239.00	77
40.00	33	98.00	67	157.00	2917	240.00	105
43.00	1077	99.00	147	159.00	1633	241.00	229
44.00	9359	100.00	168	160.00	55	247.00	16
45.00	18120	102.00	180	161.00	2258	248.00	81
46.00	46	103.00	437	162.00	236	252.00	68
47.00	30568	104.00	4448	163.00	26	254.00	271
48.00	12411	105.00	2083	164.00	91	256.00	50
49.00	92104	106.00	4596	165.00	420	259.00	81
50.00	454848	107.00	659	166.00	350	261.00	115
51.00	146368	110.00	493	167.00	217	265.00	253
52.00	5551	111.00	786	168.00	208	267.00	81
54.00	10	112.00	556	169.00	1282	268.00	195
55.00	4302	113.00	447	170.00	463	269.00	514
56.00	26832	114.00	20	171.00	1346	271.00	78
57.00	53440	115.00	868	172.00	2182	272.00	82
58.00	1558	116.00	3860	173.00	11877	273.00	67
59.00	343	117.00	6383	174.00	1046528	274.00	258
60.00	15715	118.00	4853	175.00	80808	276.00	165
61.00	82680	119.00	5675	176.00	1005888	280.00	115
62.00	83168	120.00	229	177.00	66536	281.00	268
63.00	60784	121.00	207	178.00	1770	285.00	328
64.00	3993	122.00	25	179.00	278	291.00	147
65.00	1230	123.00	252	181.00	216	292.00	137
66.00	184	125.00	426	183.00	79	294.00	91
67.00	4458	126.00	825	185.00	129	295.00	65
68.00	151232	127.00	348	189.00	392	296.00	54
69.00	152128	128.00	3710	196.00	177	302.00	63
70.00	12823	129.00	2085	198.00	107	305.00	136
71.00	169	130.00	4555	199.00	125	306.00	98
72.00	7192	131.00	1860	200.00	235	309.00	56
73.00	58904	132.00	412	202.00	293	313.00	94

Date : 17-JAN-2008 12:25

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5011706.d
Spectrum: Avg. Scans 98-100 (3.79), Background Scan 88
Location of Maximum: 95.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	242944	134.00	649	205.00	55	315.00	150
75.00	782080	135.00	1108	207.00	174	322.00	130
76.00	64624	136.00	23	210.00	149	323.00	264
77.00	8273	137.00	1749	211.00	125	325.00	73
78.00	4938	138.00	403	212.00	54	327.00	159
79.00	23536	139.00	668	213.00	58	328.00	216
80.00	6718	140.00	1014	215.00	175	330.00	128
81.00	26112	141.00	12285	217.00	274	332.00	67
82.00	4321	142.00	1543	219.00	189	333.00	50
83.00	17	143.00	11420	221.00	248	336.00	122
86.00	1489	144.00	430	222.00	204	339.00	140
87.00	51120	145.00	939	223.00	111	340.00	57
88.00	51832	146.00	2139	226.00	165	341.00	85
89.00	914	147.00	473	227.00	292	344.00	66
90.00	202	148.00	3205	228.00	84	346.00	120
91.00	4744	149.00	379	230.00	70	349.00	170
92.00	37784	150.00	1494	231.00	60		
93.00	60088	151.00	245	233.00	179		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-21jan.b/5012101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 21-JAN-2008 08:34
Operator : sjr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-21jan.b/bfb30.m
Meth Date : 21-Jan-2008 08:24 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.796	3.900	-0.104	95	1863991			100.00- 100.00	100.00
3.796	3.900	-0.104	50	505840			15.00- 40.00	27.14
3.796	3.900	-0.104	75	909784			30.00- 60.00	48.81
3.796	3.900	-0.104	96	127861			5.00- 9.00	6.86
3.796	3.900	-0.104	173	12490			0.00- 2.00	1.00
3.796	3.900	-0.104	174	1246605			50.00- 100.00	66.88
3.796	3.900	-0.104	175	90540			5.00- 9.00	7.26
3.796	3.900	-0.104	176	1194166			95.00- 101.00	95.79
3.796	3.900	-0.104	177	77149			5.00- 9.00	6.46

Data File: /var/chem/msd5.i/5-21jan.b/5012101.d

Date : 21-JAN-2008 08:34

Client ID: BFB

Instrument: msd5.i

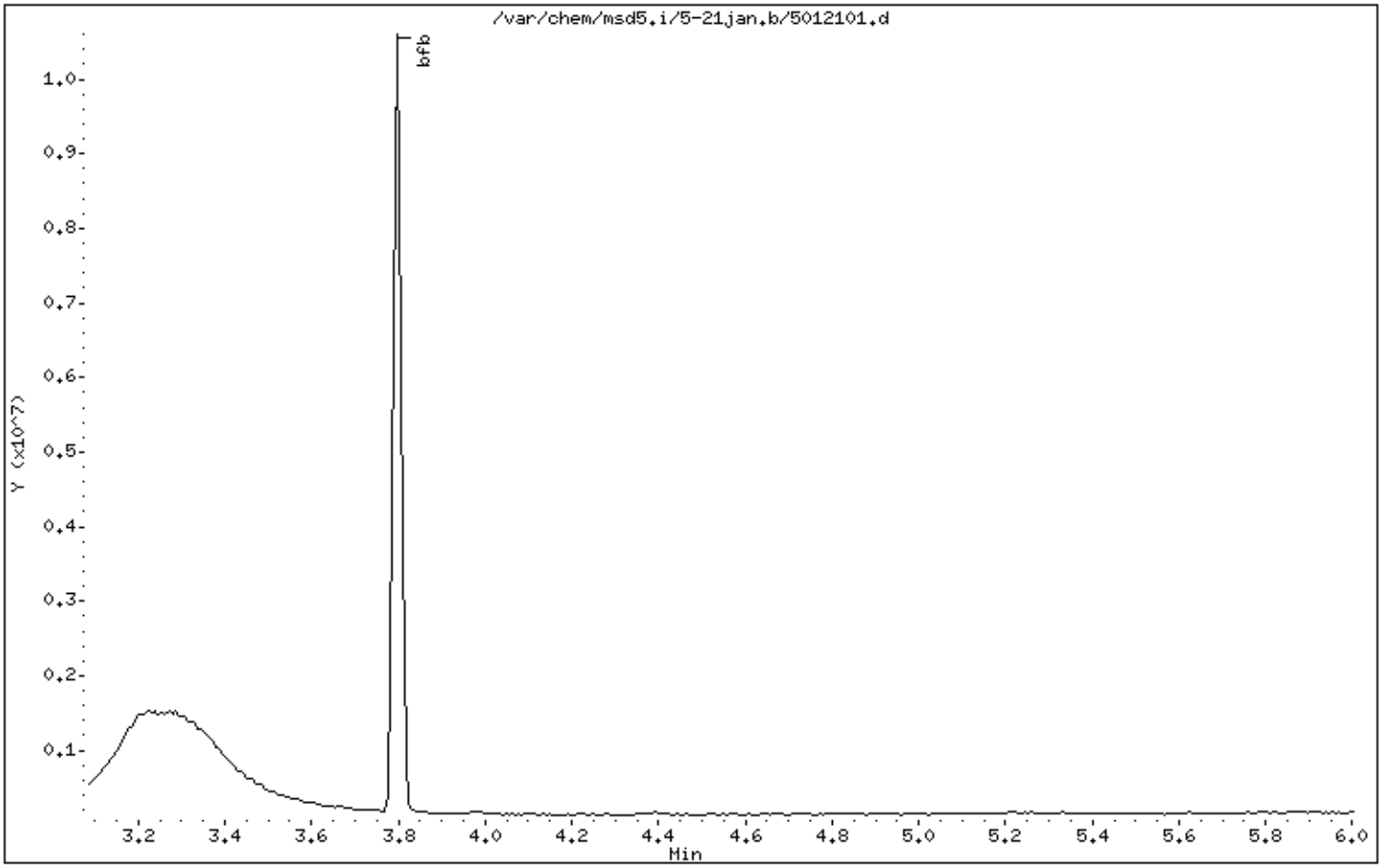
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-21jan.b/5012101.d

Date : 21-JAN-2008 08:34

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

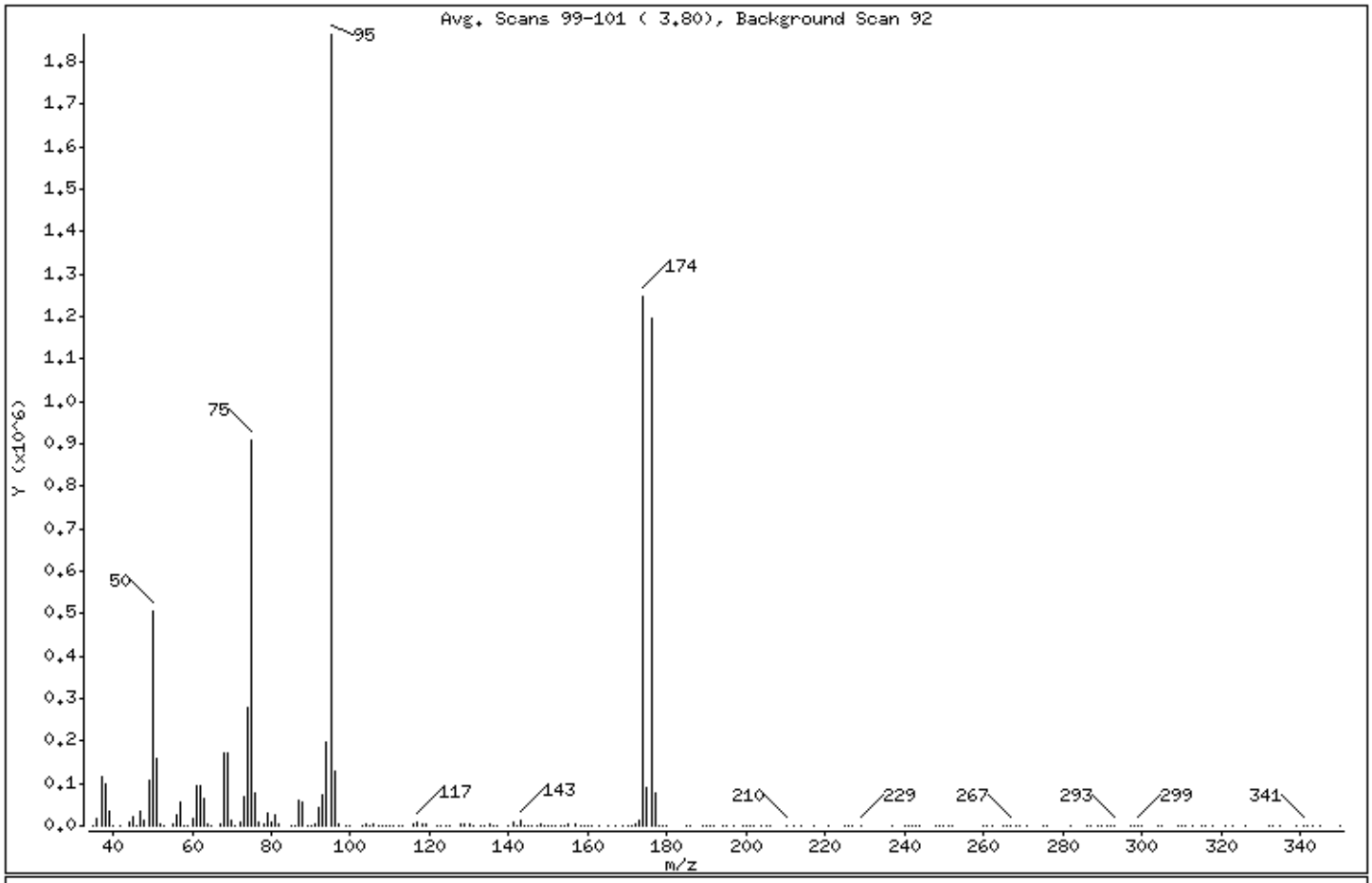
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.14
75	30.00 - 60.00% of mass 95	48.81
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.67 (1.00)
174	50.00 - 100.00% of mass 95	66.88
175	5.00 - 9.00% of mass 174	4.86 (7.26)
176	95.00 - 101.00% of mass 174	64.07 (95.79)
177	5.00 - 9.00% of mass 176	4.14 (6.46)

Data File: /var/chem/msd5.i/5-21jan.b/5012101.d

Date : 21-JAN-2008 08:34

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: 5012101.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	206	92.00	42584	155.00	3782	244.00	224
36.00	16776	93.00	70896	157.00	2497	248.00	178
37.00	113736	94.00	196928	158.00	280	249.00	252
38.00	99824	95.00	1863680	159.00	1498	250.00	110
39.00	35768	96.00	127856	160.00	429	251.00	184
40.00	1680	97.00	3633	161.00	1209	252.00	79
42.00	185	99.00	73	163.00	41	260.00	157
44.00	10446	100.00	34	165.00	419	261.00	51
45.00	22848	103.00	7	167.00	214	262.00	125
46.00	1353	104.00	4709	169.00	1342	265.00	24
47.00	35192	105.00	1173	170.00	693	266.00	210
48.00	13338	106.00	4061	171.00	1305	267.00	648
49.00	105536	107.00	637	172.00	3104	268.00	230
50.00	505792	108.00	849	173.00	12490	269.00	13
51.00	159296	109.00	273	174.00	1246208	271.00	258
52.00	5035	110.00	315	175.00	90536	275.00	93
53.00	613	111.00	824	176.00	1193984	276.00	157
55.00	4153	112.00	267	177.00	77144	282.00	210
56.00	26136	113.00	1062	178.00	1478	286.00	107
57.00	57184	116.00	4339	179.00	234	287.00	236
58.00	1282	117.00	7975	180.00	504	289.00	55
59.00	72	118.00	4522	185.00	109	290.00	82
60.00	16928	119.00	5373	186.00	235	291.00	218
61.00	93112	122.00	655	189.00	278	292.00	183
62.00	92728	123.00	625	190.00	195	293.00	253
63.00	63976	124.00	380	191.00	15	297.00	58
64.00	5776	125.00	236	192.00	250	298.00	264
65.00	397	128.00	5674	194.00	309	299.00	282
67.00	3209	129.00	2340	195.00	54	300.00	218
68.00	169984	130.00	5011	197.00	65	304.00	50
69.00	173376	131.00	648	199.00	253	305.00	112
70.00	12695	133.00	606	200.00	271	309.00	54
71.00	953	134.00	186	201.00	113	310.00	70
72.00	7066	135.00	2471	202.00	198	311.00	225
73.00	69728	136.00	651	204.00	128	313.00	52

Date : 21-JAN-2008 08:34

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00

Data File: 5012101.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	279872	137.00	1848	205.00	47	315.00	69
75.00	909760	140.00	1105	206.00	114	316.00	186
76.00	77256	141.00	10573	210.00	322	318.00	247
77.00	9354	142.00	1767	212.00	22	321.00	227
78.00	5074	143.00	13586	214.00	101	323.00	74
79.00	28216	144.00	664	217.00	304	326.00	76
80.00	7914	145.00	1342	221.00	63	332.00	205
81.00	27632	146.00	1415	225.00	159	333.00	75
82.00	5773	147.00	783	226.00	253	335.00	198
85.00	316	148.00	4036	227.00	141	339.00	150
86.00	1203	149.00	1006	229.00	475	341.00	229
87.00	61104	150.00	1843	237.00	196	342.00	135
88.00	57568	151.00	37	240.00	163	343.00	188
89.00	1470	152.00	351	241.00	161	345.00	61
90.00	22	153.00	980	242.00	377	350.00	57
91.00	2918	154.00	707	243.00	392		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0801302
# of pages (Including Cover): 1

2/1/2008

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

0175

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

Project Info:
P.O. #
Project # 081140 - 8 - 1708
Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:
[X] Normal
[ ] Rush _____ Specify

Lab I.D.	Field Sample I.D. (Can #)	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	DW AMS 1 (33790)	01/16/08 0600-1410	TO-15 + Naphthalene	-29.5	-6.0	
02A	DW AMS 5 (31156)	01/16/08 0600-1410	TO-15 + Naphthalene	-26.5	-7.0	

Relinquished By: (Signature) Date/Time: 01/16/08 1520
Received By: (Signature) Date/Time: Monica Hagen AFL 8 1/18/08
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Notes: used flow controllers included
Initial and final can pressures in inches Hg\
Send Data Pack to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8620 3576 5542	MG	NA	Good	Yes No (None)	080130 2

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0801302

Client

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

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 02/01/08
Date Completed: 1/31/08
Date Received: 1/18/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 1	Modified TO-15	1/16/2008	5.5 "Hg	$225.00
02A	UW AMS 5	Modified TO-15	1/16/2008	6.5 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 54020	$100.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 54020	$70.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0801302

A	R	T	M	Q	
☑	☑	☐	☐	☑	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☑	☐	☐	☐	The final report has the correct reporting list, special units, and header info.
	☑	☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	NA	☐	☑	☐	Corrective Action issued - #_____
NA	NA	☐	☑	☐	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
	☐	☐		TICs between duplicate samples are consistent
NA	☐	☐	☐	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐	Special units for all samples in the final report are correctly calculated
	☐	☐	☐	Manually entered results checked (i.e. special CCV compounds)
	☑	☐	☐	TPH/NMOC (verify calculations and correct reference compound used)
	☑			Chain of Custody scanned correctly
			☐	Verify sample id's vs. chain of custody
☑	☑			Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☑	☑			Final pressure consistent with canister size (6L vs. 1L)
☑	☑			Verify receipt pressures against logbook and Target
☑	☑			Verify canister ID #'s
	☑	☑		Extra printed copies are provided per client profile
	☑	☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: 1 out CCV, Ø out LCS (Naphth)

M/Q:

A (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
CB 1/22/08	R: EO 1/31/08	TOS 1-31-08	

T:_____

0182

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05

Not Applicable