
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 #: 0805378

	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	37
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)	38	45
b. Surrogate Recover Summary Form (If Applicable)	46	46
c. Internal Standard Summary Form (If Applicable)	47	47
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	48	159
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	160	174
i. Second Source LCS(Summary + Raw Data)	175	189
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	190	191
l. GC/MS Tune (Results + Raw Data)	192	206
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	207	208
b. Chain-of-Custody Records	209	209
c. Sample Log-In Sheet	210	210
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	211	212
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	213	215
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	216	217
g. Variance Table	--	--
h. Canister Certification	218	221
i. Data Review Check Sheet	222	222

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	6/3/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805378

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	05/16/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	05/29/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 3	Modified TO-15	0.4psi	5 psi
02A	UW AMS 1	Modified TO-15	6.0 "Hg	5 psi
03A	DW-AMS-3 (Trip Blank)	Modified TO-15	4.0 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 05/30/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, 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# 0805378

Two 6 Liter Summa Canister (100% Certified) and one 6 Liter Summa Canister samples were received on May 16, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

The number of samples received did not match the information on the Chain of Custody (COC). Sample DW-AMS-3 (Trip Blank) was added to the analytical request.

Sample identifications on the Chain of Custody (COC) were not unique for samples DW AMS 3. "Trip Blank" was added to the appropriate sample ID to ensure uniqueness.

The Chain of Custody (COC) information for sample DW AMS 3 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in

the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
DW AMS 3	0805378-01A	5/14/2008	5/16/2008	NA	13	5/27/2008	NA	Good
UW AMS 1	0805378-02A	5/14/2008	5/16/2008	NA	13	5/27/2008	NA	Good
DW-AMS-3 (Trip Blank)	0805378-03A	5/14/2008	5/16/2008	NA	13	5/27/2008	NA	Good
Lab Blank	0805378-04A	NA	NA	NA	NA	5/27/2008	NA	Good
CCV	0805378-05A	NA	NA	NA	NA	5/27/2008	NA	Good
LCS	0805378-06A	NA	NA	NA	NA	5/27/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0805378-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.65	1.4	2.4	5.4
m,p-Xylene	0.65	0.69	2.8	3.0
Ethanol	2.6	3.6	4.9	6.8

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0805378-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052714**	**Date of Collection:**	**5/14/08**
Dil. Factor:	**1.30**	**Date of Analysis:**	**5/27/08 05:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.65	Not Detected	3.2	Not Detected
Freon 114	0.65	Not Detected	4.5	Not Detected
Vinyl Chloride	0.65	Not Detected	1.7	Not Detected
Bromomethane	0.65	Not Detected	2.5	Not Detected
Chloroethane	0.65	Not Detected	1.7	Not Detected
Freon 11	0.65	Not Detected	3.6	Not Detected
1,1-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Freon 113	0.65	Not Detected	5.0	Not Detected
Methylene Chloride	0.65	Not Detected	2.2	Not Detected
1,1-Dichloroethane	0.65	Not Detected	2.6	Not Detected
cis-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Chloroform	0.65	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Carbon Tetrachloride	0.65	Not Detected	4.1	Not Detected
Benzene	0.65	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.65	Not Detected	2.6	Not Detected
Trichloroethene	0.65	Not Detected	3.5	Not Detected
1,2-Dichloropropane	0.65	Not Detected	3.0	Not Detected
cis-1,3-Dichloropropene	0.65	Not Detected	3.0	Not Detected
Toluene	0.65	1.4	2.4	5.4
trans-1,3-Dichloropropene	0.65	Not Detected	3.0	Not Detected
1,1,2-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Tetrachloroethene	0.65	Not Detected	4.4	Not Detected
1,2-Dibromoethane (EDB)	0.65	Not Detected	5.0	Not Detected
Chlorobenzene	0.65	Not Detected	3.0	Not Detected
Ethyl Benzene	0.65	Not Detected	2.8	Not Detected
m,p-Xylene	0.65	0.69	2.8	3.0
o-Xylene	0.65	Not Detected	2.8	Not Detected
Styrene	0.65	Not Detected	2.8	Not Detected
1,1,2,2-Tetrachloroethane	0.65	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,3-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,4-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
alpha-Chlorotoluene	0.65	Not Detected	3.4	Not Detected
1,2-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,3-Butadiene	0.65	Not Detected	1.4	Not Detected
Hexane	0.65	Not Detected	2.3	Not Detected
Cyclohexane	0.65	Not Detected	2.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0805378-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052714**	**Date of Collection: 5/14/08**	
Dil. Factor:	**1.30**	**Date of Analysis: 5/27/08 05:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.65	Not Detected	2.7	Not Detected
Bromodichloromethane	0.65	Not Detected	4.4	Not Detected
Dibromochloromethane	0.65	Not Detected	5.5	Not Detected
Cumene	0.65	Not Detected	3.2	Not Detected
Propylbenzene	0.65	Not Detected	3.2	Not Detected
Chloromethane	2.6	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	2.6	Not Detected	19	Not Detected
Hexachlorobutadiene	2.6	Not Detected	28	Not Detected
Acetone	2.6	Not Detected	6.2	Not Detected
Carbon Disulfide	0.65	Not Detected	2.0	Not Detected
2-Propanol	2.6	Not Detected	6.4	Not Detected
trans-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.65	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.65	Not Detected U J	1.9	Not Detected U J
1,4-Dioxane	2.6	Not Detected	9.4	Not Detected
4-Methyl-2-pentanone	0.65	Not Detected	2.7	Not Detected
2-Hexanone	2.6	Not Detected	11	Not Detected
Bromoform	0.65	Not Detected	6.7	Not Detected
4-Ethyltoluene	0.65	Not Detected	3.2	Not Detected
Ethanol	2.6	3.6	4.9	6.8
Methyl tert-butyl ether	0.65	Not Detected	2.3	Not Detected
3-Chloropropene	2.6	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	0.65	Not Detected U J	3.0	Not Detected U J
Naphthalene	2.6	Not Detected	14	Not Detected

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

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

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27may.b/5052714.d
Lab Smp Id: 0805378-01A
Inj Date : 27-MAY-2008 17:21
Operator : srs Inst ID: msd5.i
Smp Info : 200mL #34738
Misc Info : 0.4psi -> 5psi
Comment :
Method : /chem/msd5.i/5-27may.b/t14q424b.m
Meth Date : 28-May-2008 01:26 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1
Dil Factor: 1.30000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	225210	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	181816			45.02- 105.02	80.73
8.087	8.087 (1.000)	49	347643			114.95- 174.95	154.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	786772	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	112614			0.00- 43.32	14.31
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	724588	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	331541			0.00- 30.00	45.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	231155	20.2215	20.221	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	119389			30.69- 90.69	51.65
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	661266	22.1172	22.117	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	63531			0.00- 39.37	9.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	448154			37.11- 97.11	67.77
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	465832	26.4768	26.477	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	541509			82.22- 142.22	116.25
16.575	16.575 (1.105)	176	458691			67.35- 127.35	98.47
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.511)	45	18688	2.77118	3.602	80.00- 120.00	100.00
4.160	4.133 (0.514)	43	3366			0.00- 30.00	18.01
4.133	4.133 (0.511)	46	9861			0.00- 30.00	52.77
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	42143	1.09792	1.427	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	21843			28.57- 88.57	51.83
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	10679	0.52960	0.6885	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	17263			0.00- 30.00	161.65

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052714.d
Lab Smp Id: 0805378-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 0.4psi -> 5psi

Calibration Date: 27-MAY-2008
Calibration Time: 07:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	312772	187663	437881	225210	-28.00
92 1,4-Difluorobenze	1084143	650486	1517800	786772	-27.43
125 Chlorobenzene-d5	954976	572986	1336966	724588	-24.13

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-27may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0805378-01A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 0.4psi -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.221	80.89	70-130
$ 107 Toluene-d8	25.000	22.117	88.47	70-130
$ 138 Bromofluorobenzene	25.000	26.477	105.91	70-130

Data File: /chem/msd5.i/5-27may.b/5052714.d

Date : 27-MAY-2008 17:21

Client ID:

Sample Info: 200mL #34738

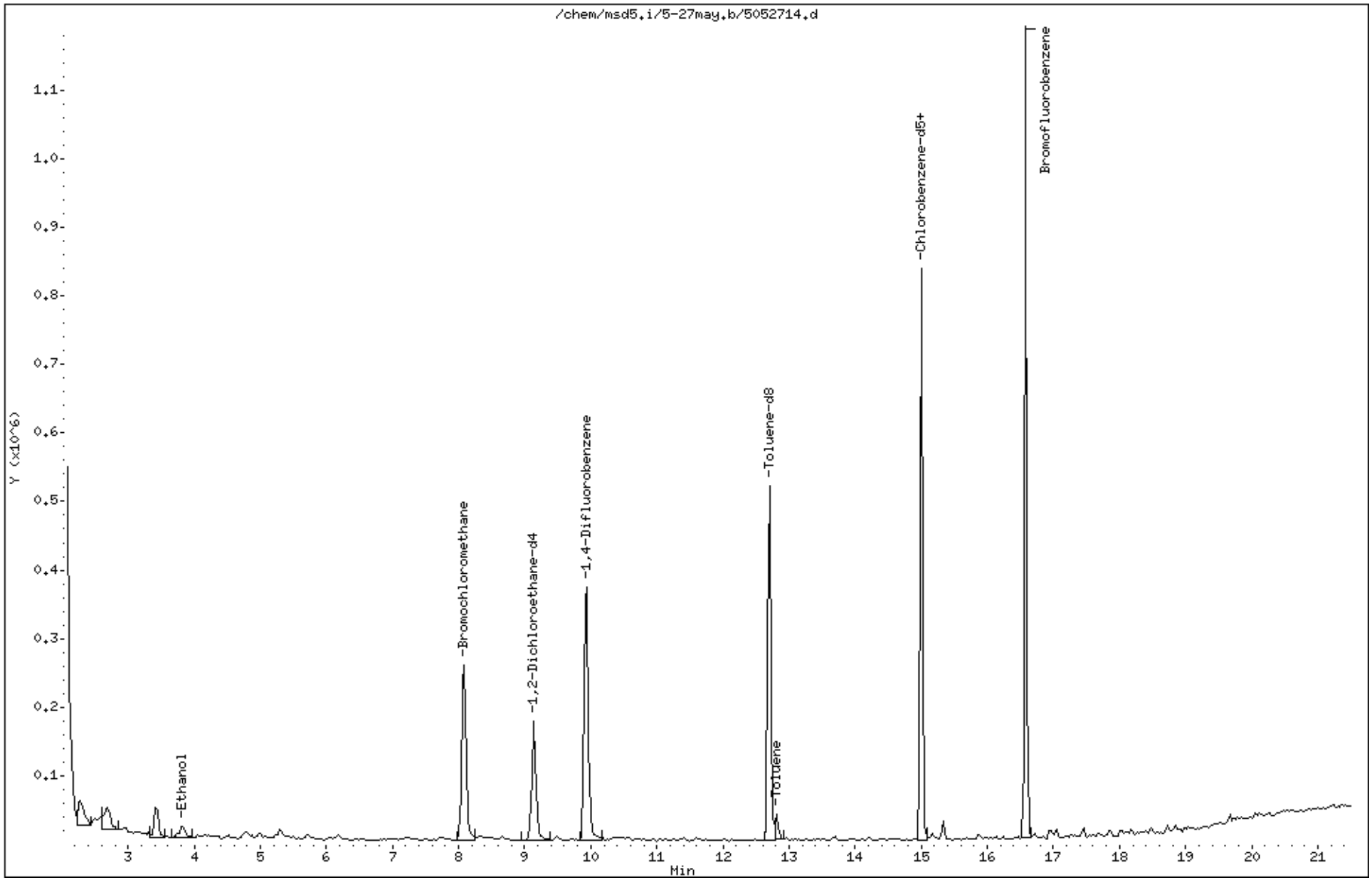
Column phase: RTx-624

Instrument: msd5.i

Operator: srs

Column diameter: 0.53

0013



Data File: /chem/msd5.i/5-27may.b/5052714.d

Date : 27-MAY-2008 17:21

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34738

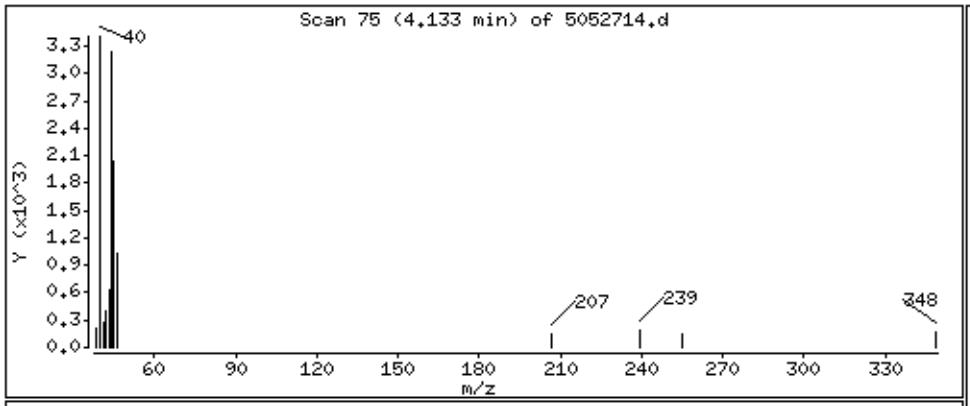
Operator: srs

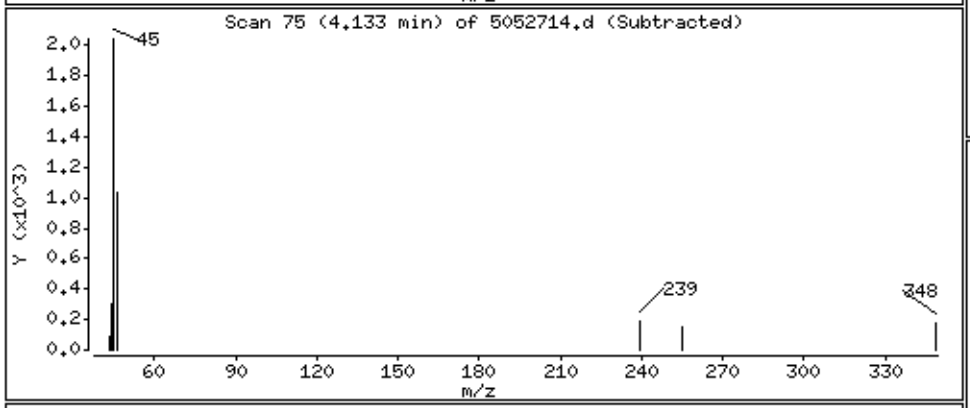
Column phase: RTx-624

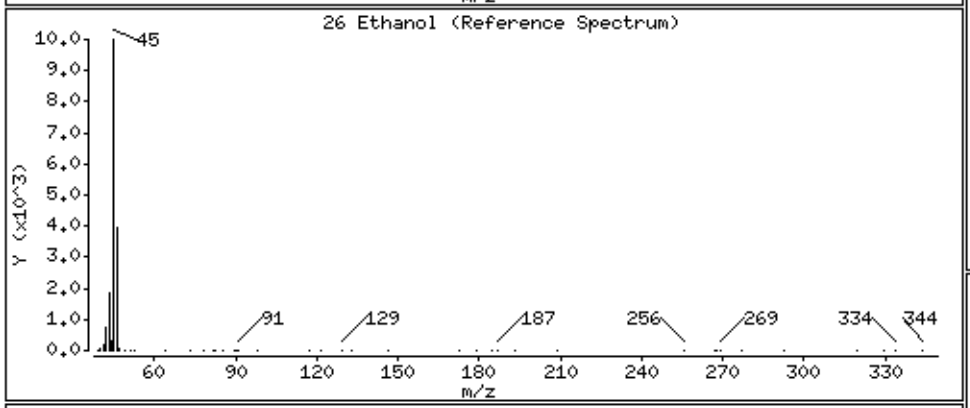
Column diameter: 0.53

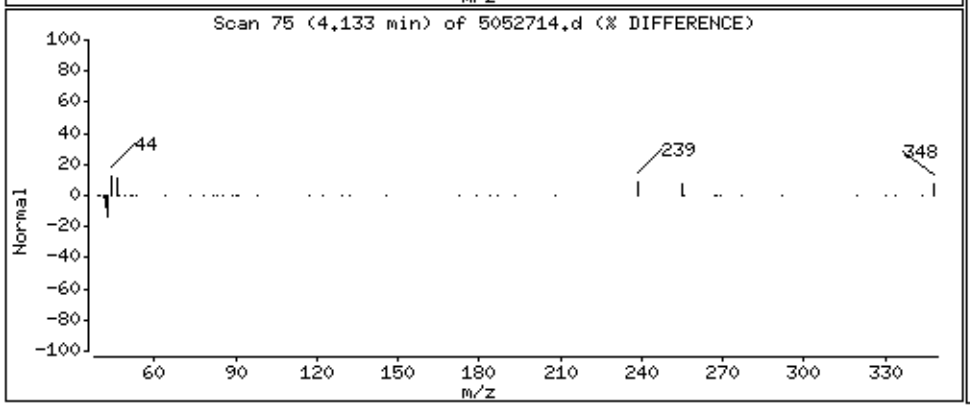
26 Ethanol

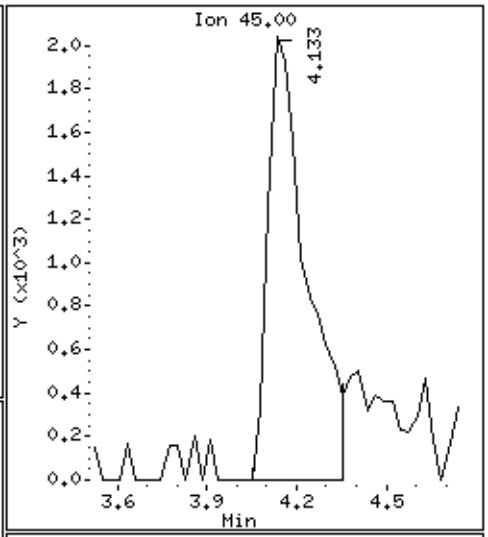
Concentration: 3.602 PPBV

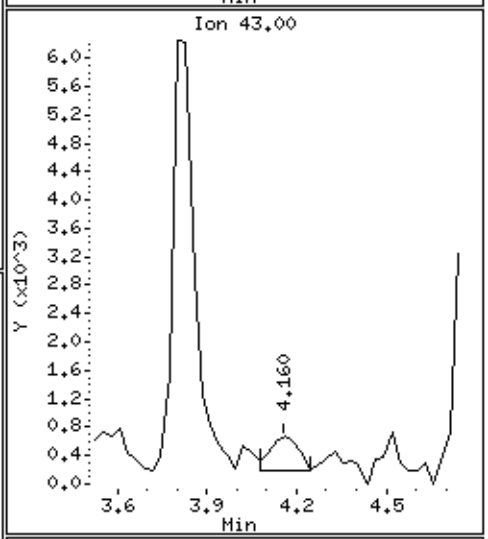


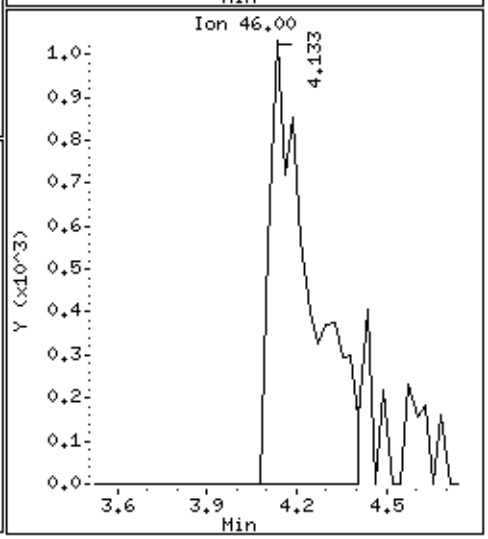












Data File: /chem/msd5.i/5-27may.b/5052714.d

Date : 27-MAY-2008 17:21

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34738

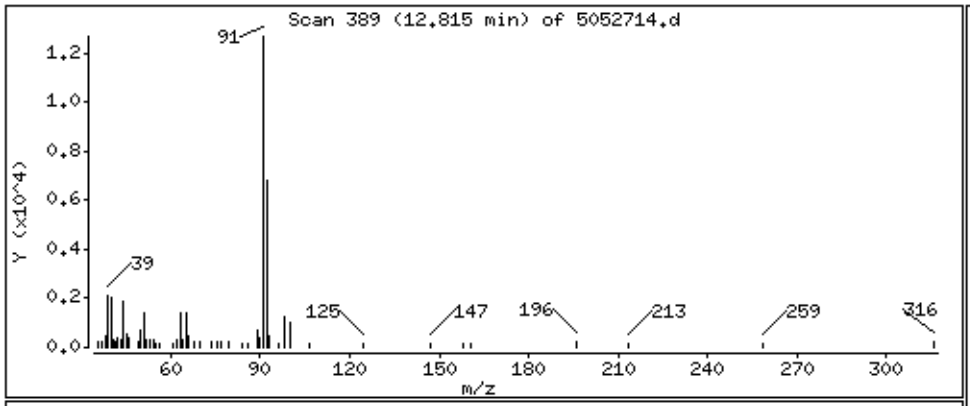
Operator: srs

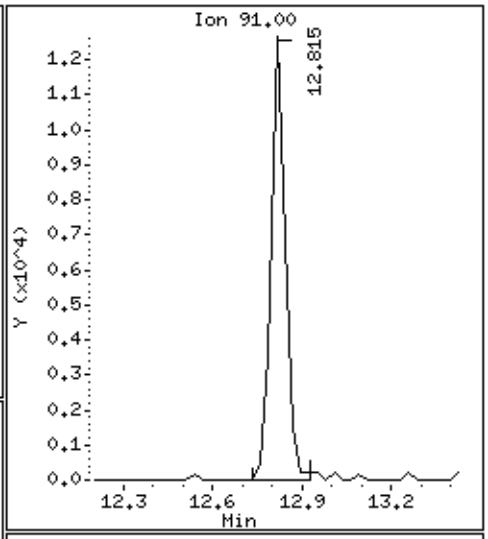
Column phase: RTx-624

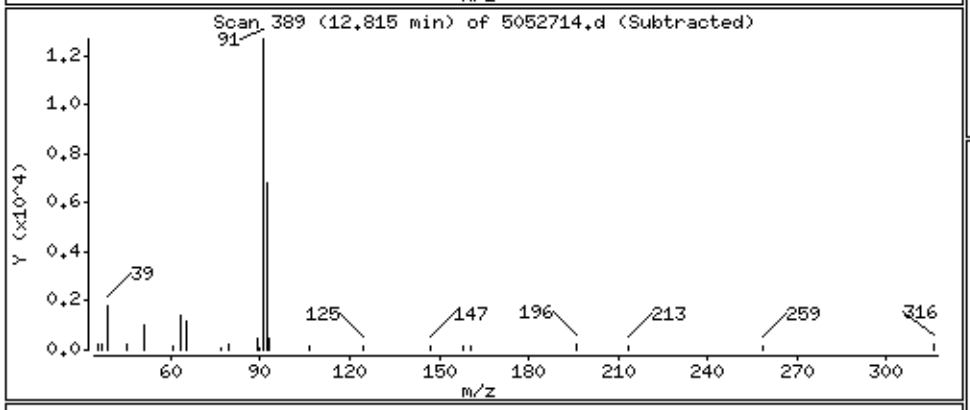
Column diameter: 0.53

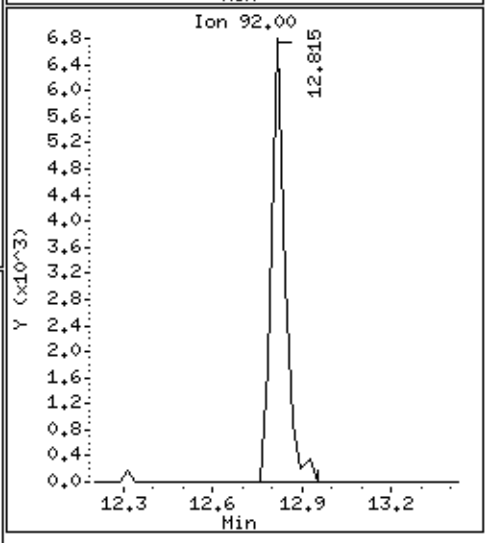
108 Toluene

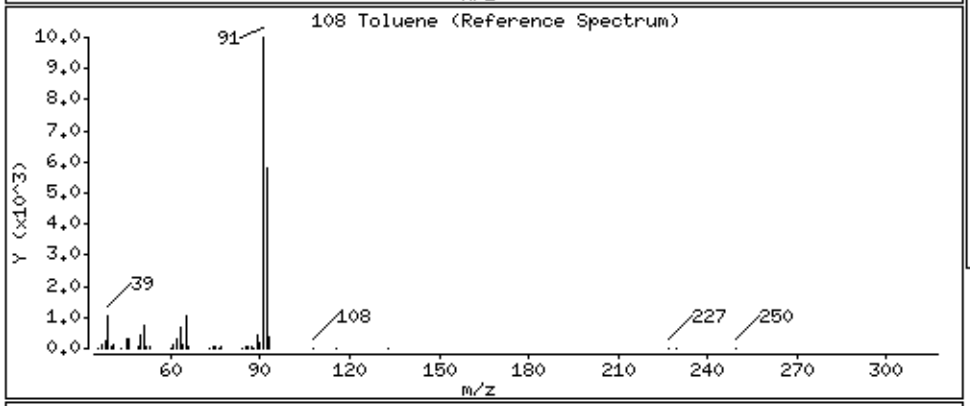
Concentration: 1.427 PPBV

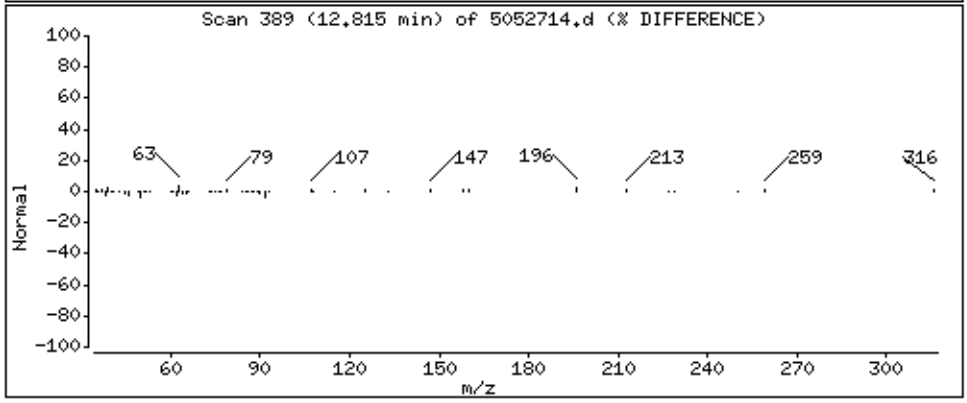












Data File: /chem/msd5.i/5-27may.b/5052714.d

Date : 27-MAY-2008 17:21

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34738

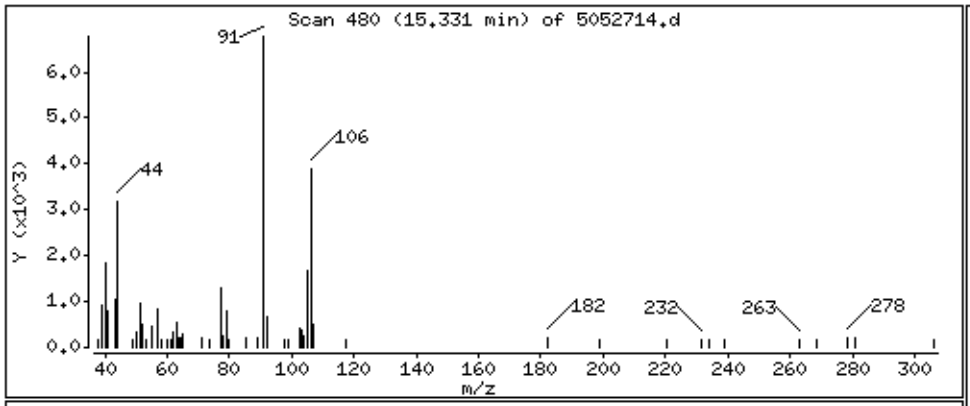
Operator: srs

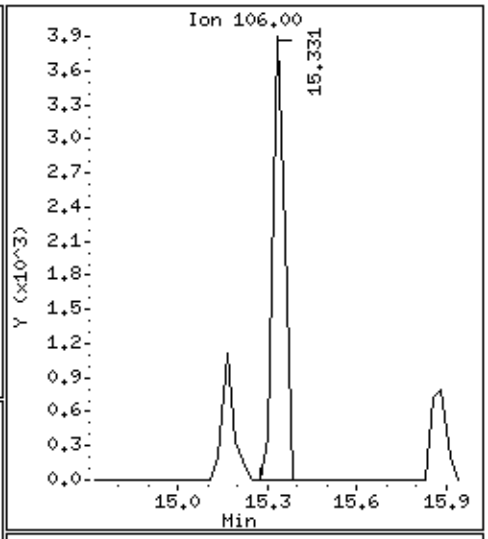
Column phase: RTx-624

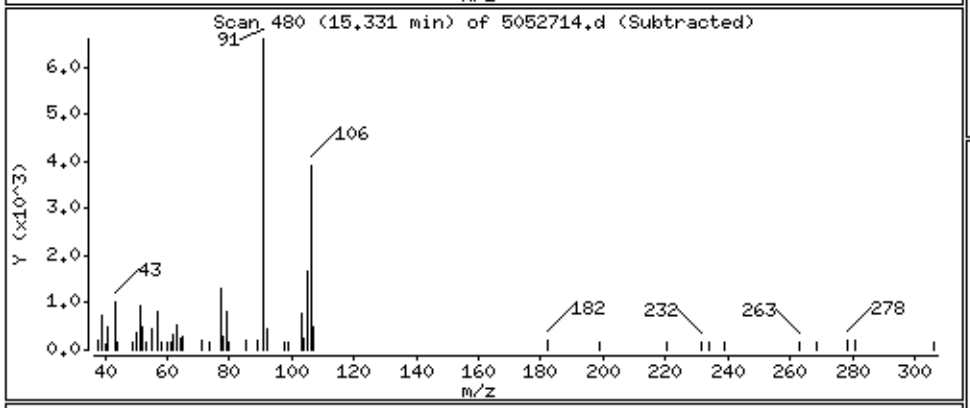
Column diameter: 0.53

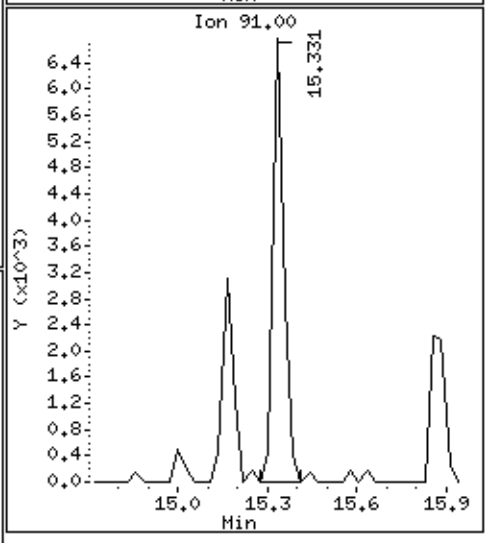
130 m,p-Xylene

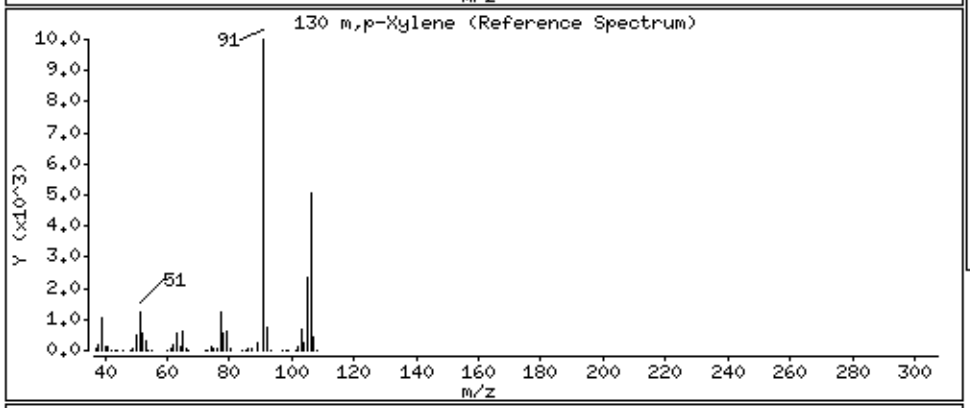
Concentration: 0.6885 PPBV

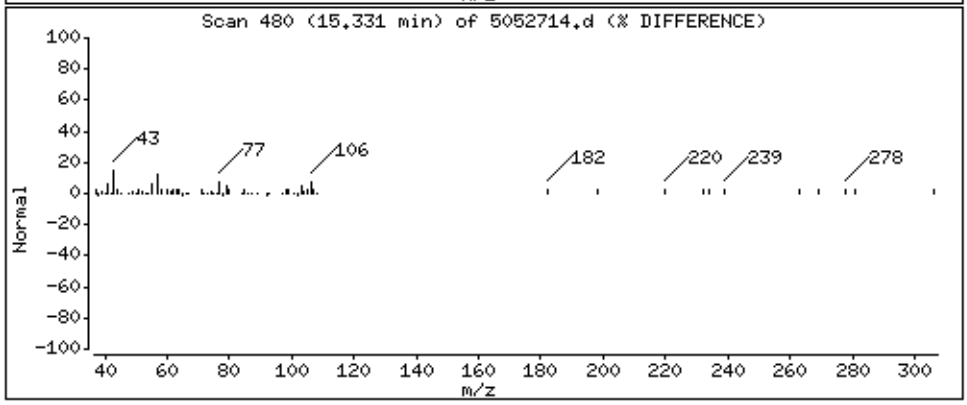












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 1

Lab ID#: 0805378-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.84	0.98	3.2	3.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 1

Lab ID#: 0805378-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052715**	**Date of Collection:**	**5/14/08**
Dil. Factor:	**1.68**	**Date of Analysis:**	**5/27/08 05:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	0.98	3.2	3.7
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 1

Lab ID#: 0805378-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052715**	**Date of Collection: 5/14/08**	
Dil. Factor:	**1.68**	**Date of Analysis: 5/27/08 05:54 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	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	8.0	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected U J	2.5	Not Detected U J
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected U J	3.9	Not Detected U J
Naphthalene	3.4	Not Detected	18	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	78	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27may.b/5052715.d
Lab Smp Id: 0805378-02A
Inj Date : 27-MAY-2008 17:54
Operator : srs Inst ID: msd5.i
Smp Info : 200mL #33996
Misc Info : 6.0"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-27may.b/t14q424b.m
Meth Date : 28-May-2008 01:26 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	219281	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	165442			45.02- 105.02	75.45
8.087	8.087 (1.000)	49	333855			114.95- 174.95	152.25
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	752986	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	101329			0.00- 43.32	13.46
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	711751	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	327992			0.00- 30.00	46.08
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	217151	19.5100	19.510	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	116275			30.69- 90.69	53.55
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	650286	22.7259	22.726	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	56313			0.00- 39.37	8.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	432103			37.11- 97.11	66.45
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	464913	26.9012	26.901	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	515051			82.22- 142.22	110.78
16.575	16.575 (1.105)	176	442430			67.35- 127.35	95.16
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	21495	0.58512	0.9830	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	12893			28.57- 88.57	59.98

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052715.d
Lab Smp Id: 0805378-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 6.0"Hg -> 5psi

Calibration Date: 27-MAY-2008
Calibration Time: 07:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	312772	187663	437881	219281	-29.89
92 1,4-Difluorobenze	1084143	650486	1517800	752986	-30.55
125 Chlorobenzene-d5	954976	572986	1336966	711751	-25.47

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-27may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0805378-02A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 6.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	19.510	78.04	70-130
$ 107 Toluene-d8	25.000	22.726	90.90	70-130
$ 138 Bromofluorobenzene	25.000	26.901	107.60	70-130

Data File: /chem/msd5.i/5-27may.b/5052715.d

Date : 27-MAY-2008 17:54

Client ID:

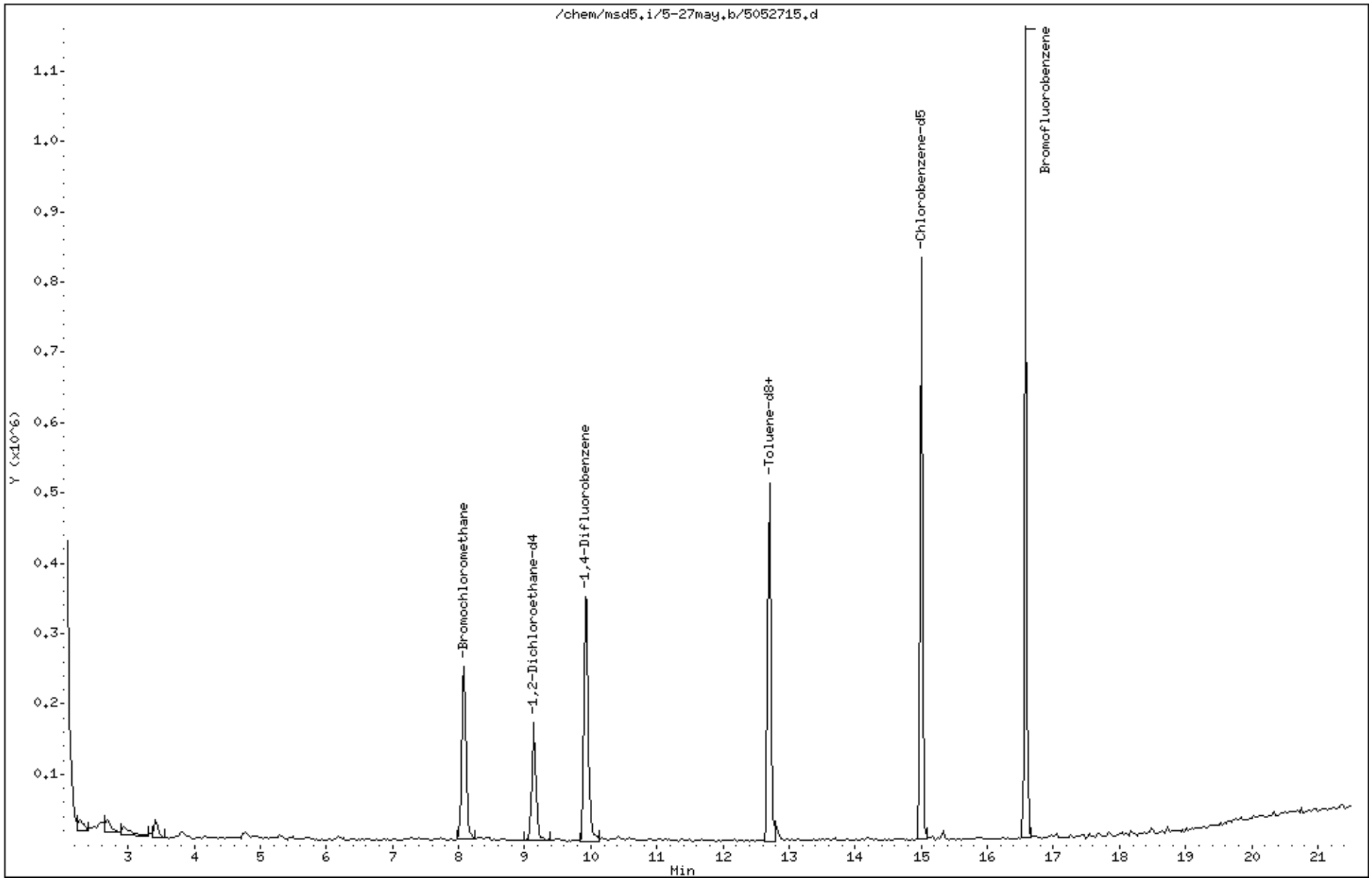
Sample Info: 200mL #33996

Column phase: RTx-624

Instrument: msd5.i

Operator: srs

Column diameter: 0.53



Data File: /chem/msd5.i/5-27may.b/5052715.d

Date : 27-MAY-2008 17:54

Client ID:

Instrument: msd5.i

Sample Info: 200mL #33996

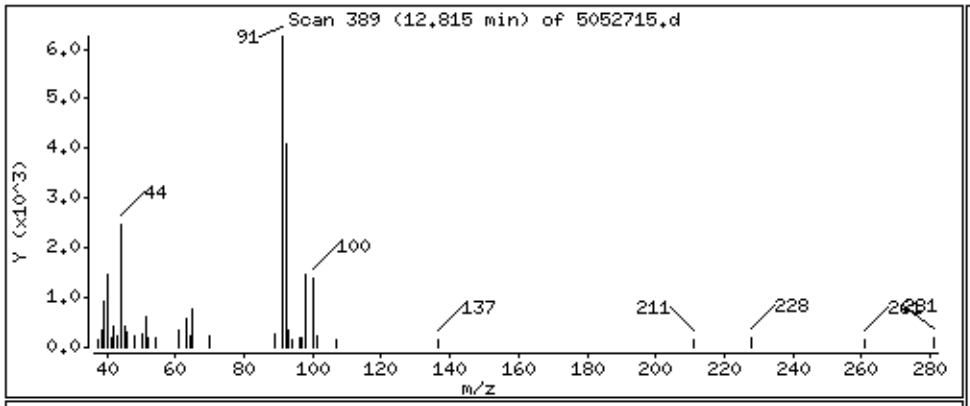
Operator: srs

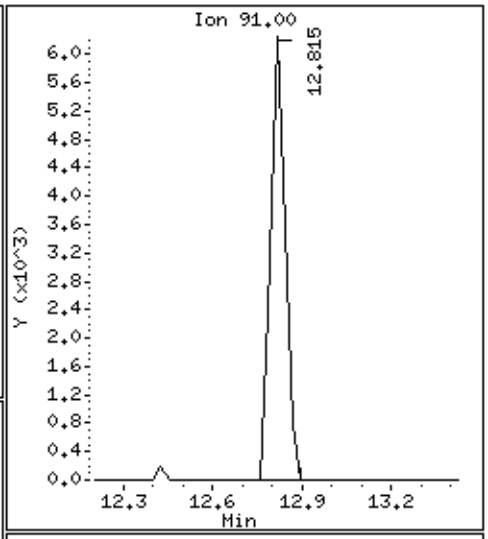
Column phase: RTx-624

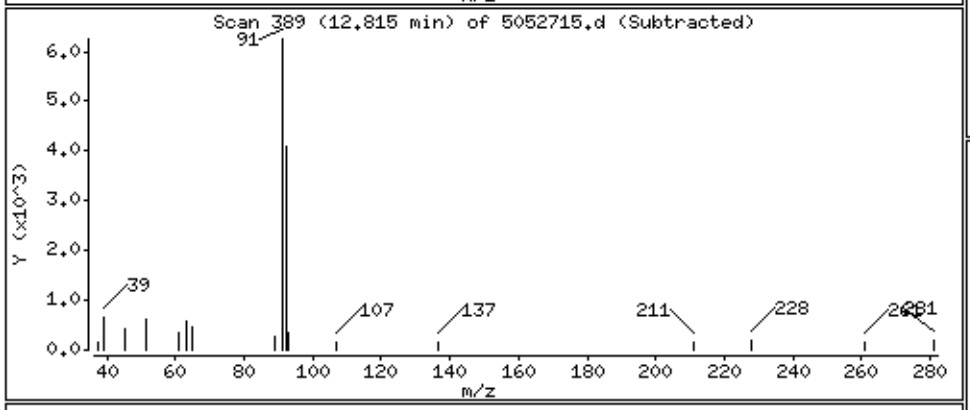
Column diameter: 0.53

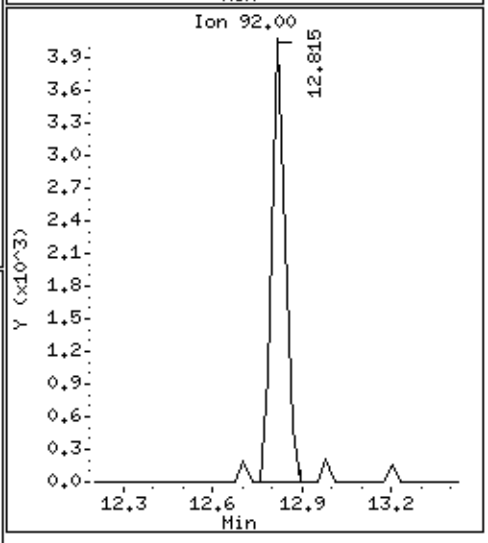
108 Toluene

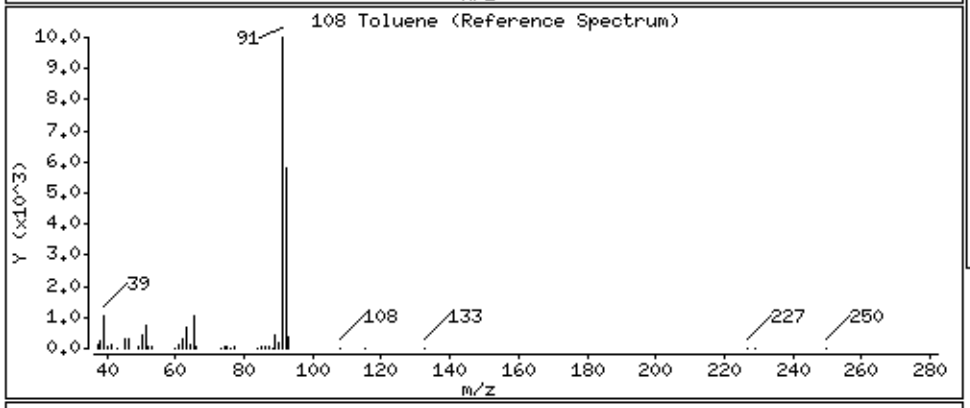
Concentration: 0.9830 PPBV

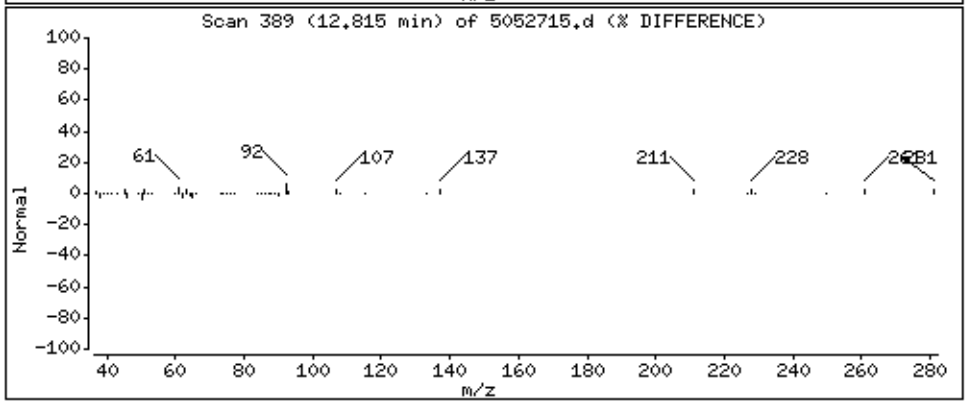












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW-AMS-3 (Trip Blank)

Lab ID#: 0805378-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.78	0.88	3.8	4.3
Methylene Chloride	0.78	0.78	2.7	2.7
Hexane	0.78	1.4	2.7	4.8
Acetone	3.1	4.0	7.4	9.6

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS-3 (Trip Blank)

Lab ID#: 0805378-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052716**	**Date of Collection:**	**5/14/08**
Dil. Factor:	**1.55**	**Date of Analysis:**	**5/27/08 06:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.78	0.88	3.8	4.3
Freon 114	0.78	Not Detected	5.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	0.78	0.78	2.7	2.7
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Toluene	0.78	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Hexane	0.78	1.4	2.7	4.8
Cyclohexane	0.78	Not Detected	2.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS-3 (Trip Blank)

Lab ID#: 0805378-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052716**	**Date of Collection: 5/14/08**	
Dil. Factor:	**1.55**	**Date of Analysis: 5/27/08 06:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.78	Not Detected	3.2	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
Chloromethane	3.1	Not Detected	6.4	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected
Acetone	3.1	4.0	7.4	9.6
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.78	Not Detected U J	2.3	Not Detected U J
1,4-Dioxane	3.1	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
Ethanol	3.1	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected U J	3.6	Not Detected U J
Naphthalene	3.1	Not Detected	16	Not Detected

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

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

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27may.b/5052716.d
Lab Smp Id: 0805378-03A
Inj Date : 27-MAY-2008 18:27
Operator : srs Inst ID: msd5.i
Smp Info : 200mL #96105
Misc Info : 4.0"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-27may.b/t14q424b.m
Meth Date : 28-May-2008 01:26 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1
Dil Factor: 1.55000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	214398	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	166157			45.02- 105.02	77.50
8.087	8.087 (1.000)	49	324104			114.95- 174.95	151.17
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	743494	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	100666			0.00- 43.32	13.54
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	692783	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	317409			0.00- 30.00	45.82
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	221625	20.3655	20.366	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	118353			30.69- 90.69	53.40
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	628245	22.2359	22.236	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	57952			0.00- 39.37	9.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	414325			37.11- 97.11	65.95
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	448112	26.6390	26.639	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	493849			82.22- 142.22	110.21
16.575	16.575 (1.105)	176	442486			67.35- 127.35	98.74
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.363 (0.289)	85	15103	0.56687	0.8786	80.00- 120.00	100.00
2.336	2.363 (0.289)	87	3206			0.00- 30.00	21.23
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.590)	58	21409	2.59939	4.029	80.00- 120.00	100.00
4.769	4.741 (0.590)	43	74624			0.00- 30.00	348.56
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	9766	0.50050	0.7758	80.00- 120.00	100.00
5.460	5.460 (0.675)	84	4882			38.34- 98.34	49.99
5.488	5.460 (0.679)	51	3012			0.00- 30.00	30.84
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	24500	0.88929	1.378	80.00- 120.00	100.00
6.179	6.179 (0.764)	43	19265			0.00- 30.00	78.63
6.179	6.179 (0.764)	86	3928			0.00- 30.00	16.03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052716.d
Lab Smp Id: 0805378-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 4.0"Hg -> 5psi

Calibration Date: 27-MAY-2008
Calibration Time: 07:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	312772	187663	437881	214398	-31.45
92 1,4-Difluorobenze	1084143	650486	1517800	743494	-31.42
125 Chlorobenzene-d5	954976	572986	1336966	692783	-27.46

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-27may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0805378-03A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 4.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.366	81.46	70-130
$ 107 Toluene-d8	25.000	22.236	88.94	70-130
$ 138 Bromofluorobenzene	25.000	26.639	106.56	70-130

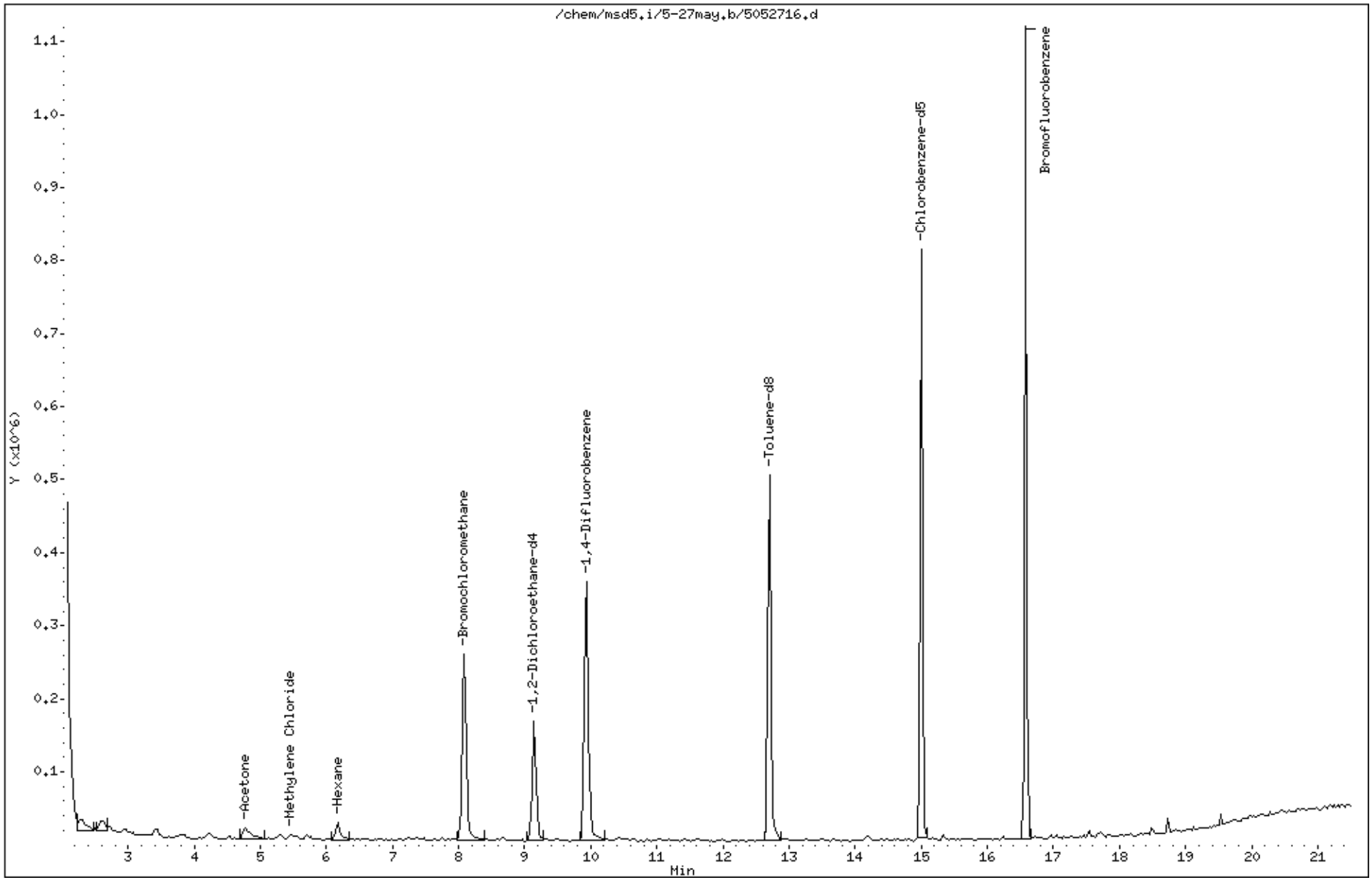
0033

Data File: /chem/msd5.i/5-27may.b/5052716.d
Date : 27-MAY-2008 18:27
Client ID:
Sample Info: 200mL #96105

Instrument: msd5.i

Operator: srs
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-27may.b/5052716.d

Date : 27-MAY-2008 18:27

Client ID:

Instrument: msd5.i

Sample Info: 200mL #96105

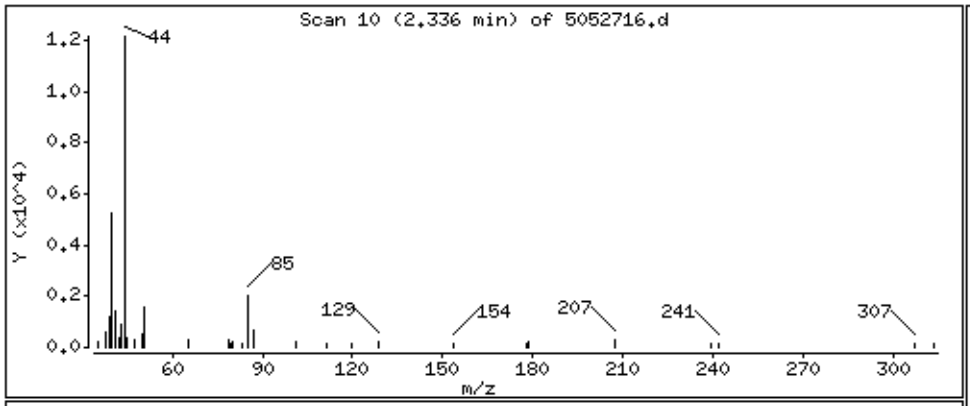
Operator: srs

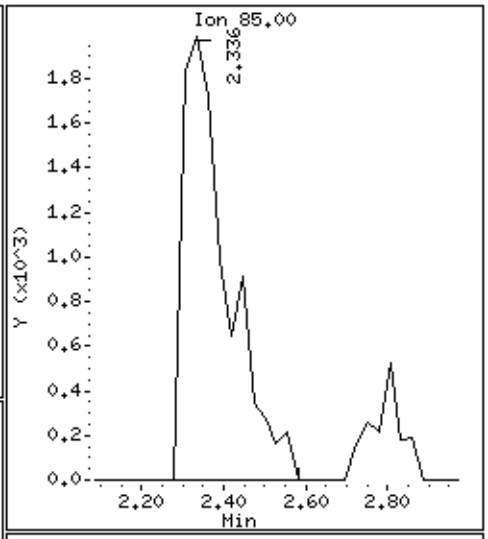
Column phase: RTx-624

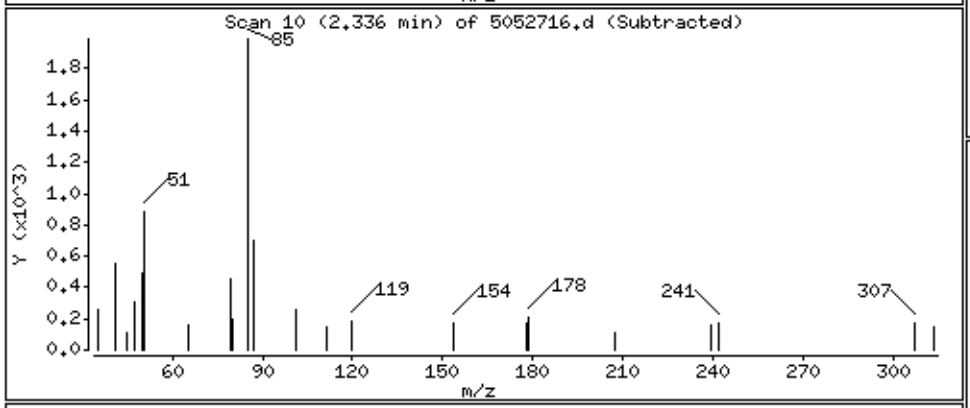
Column diameter: 0.53

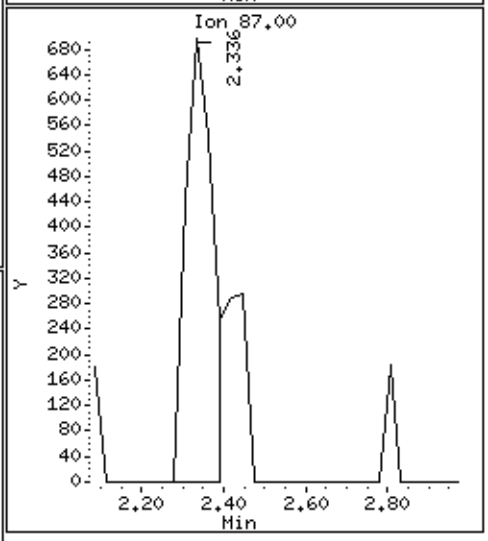
8 Dichlorodifluoromethane/Fr12

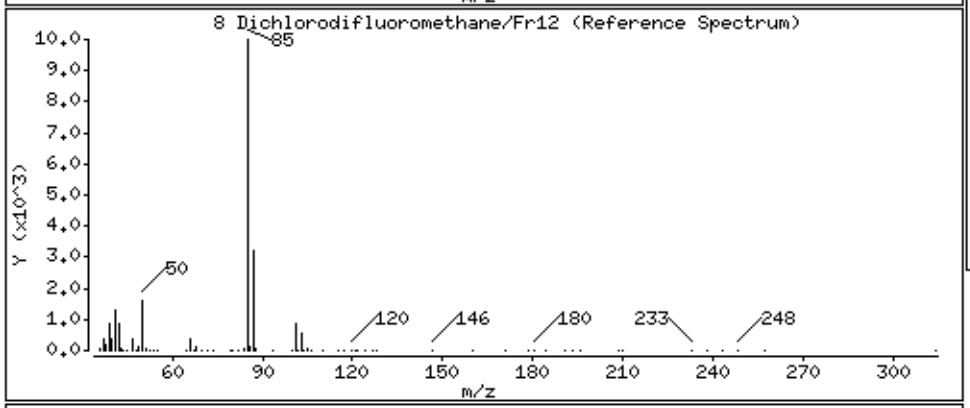
Concentration: 0.8786 PPBV

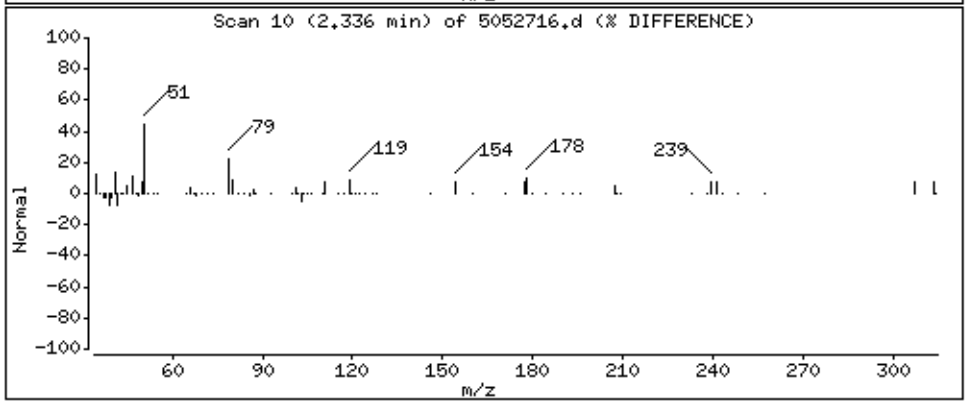












Data File: /chem/msd5.i/5-27may.b/5052716.d

Date : 27-MAY-2008 18:27

Client ID:

Instrument: msd5.i

Sample Info: 200mL #96105

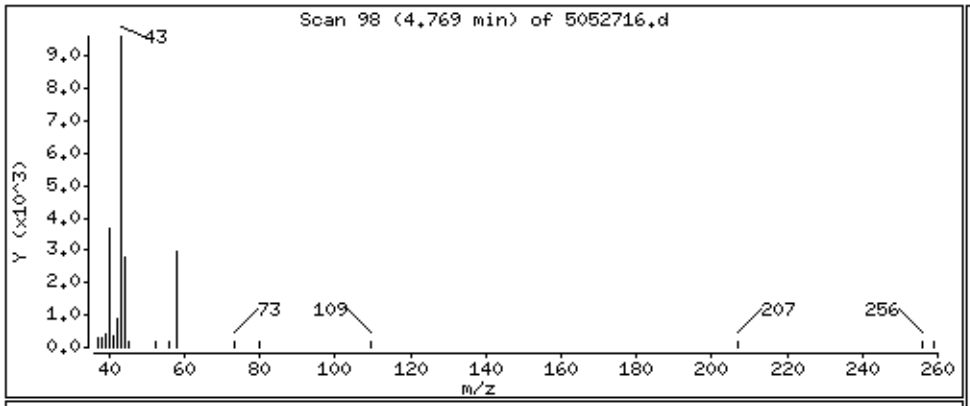
Operator: srs

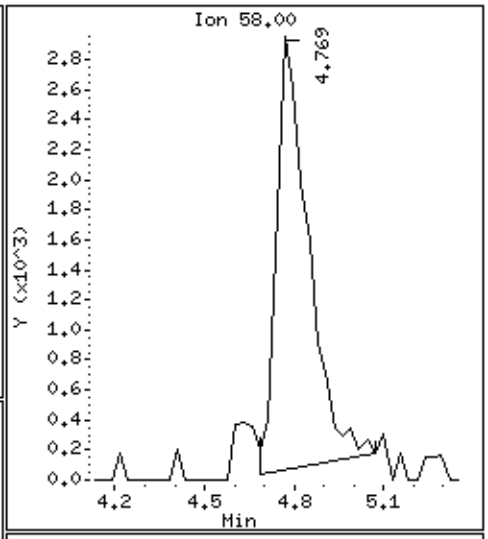
Column phase: RTx-624

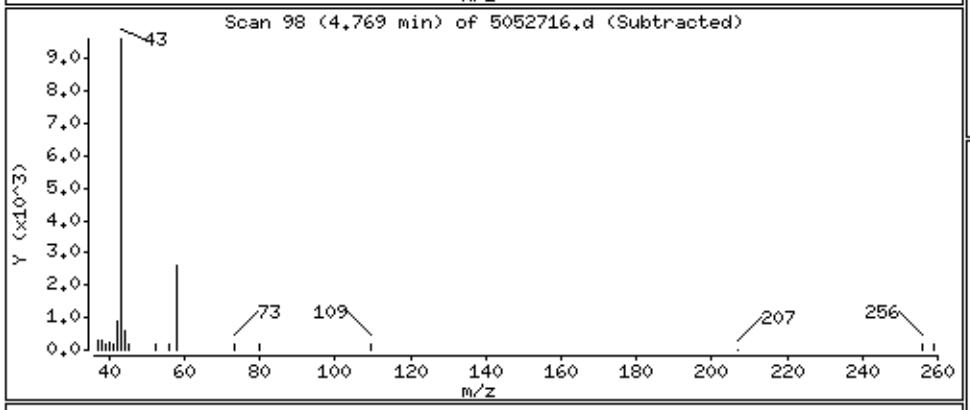
Column diameter: 0.53

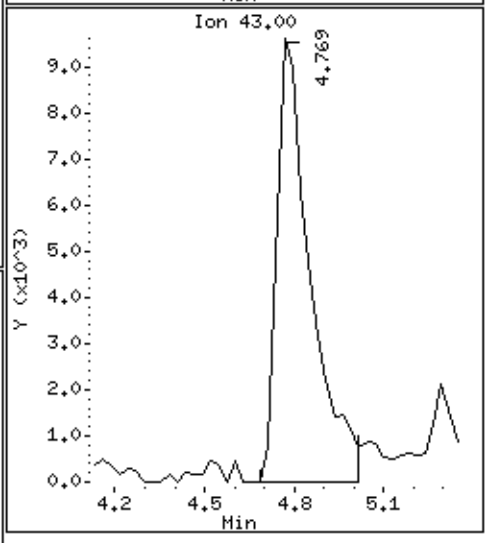
32 Acetone

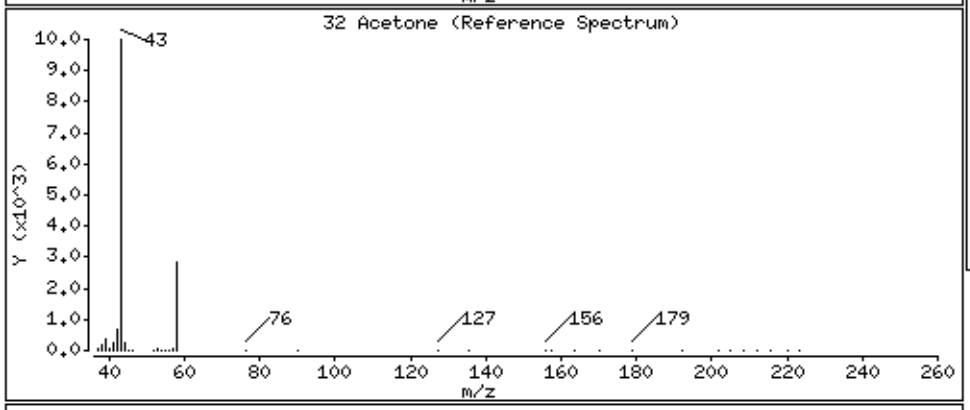
Concentration: 4.029 PPBV

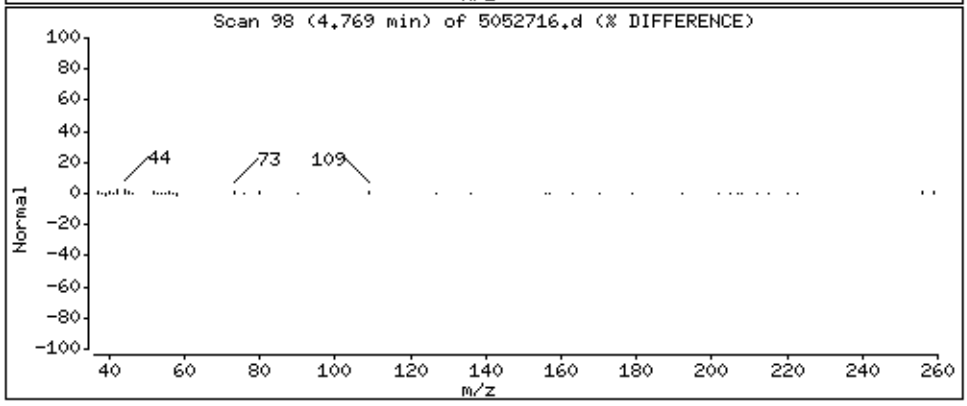












Data File: /chem/msd5.i/5-27may.b/5052716.d

Date : 27-MAY-2008 18:27

Client ID:

Instrument: msd5.i

Sample Info: 200mL #96105

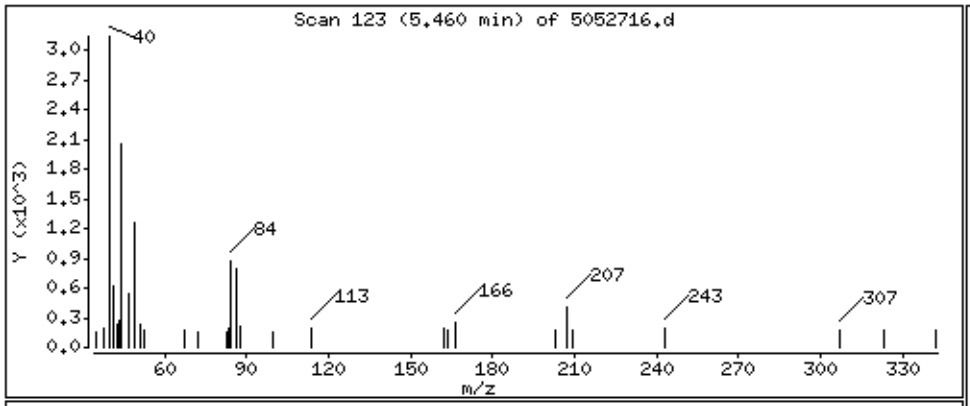
Operator: srs

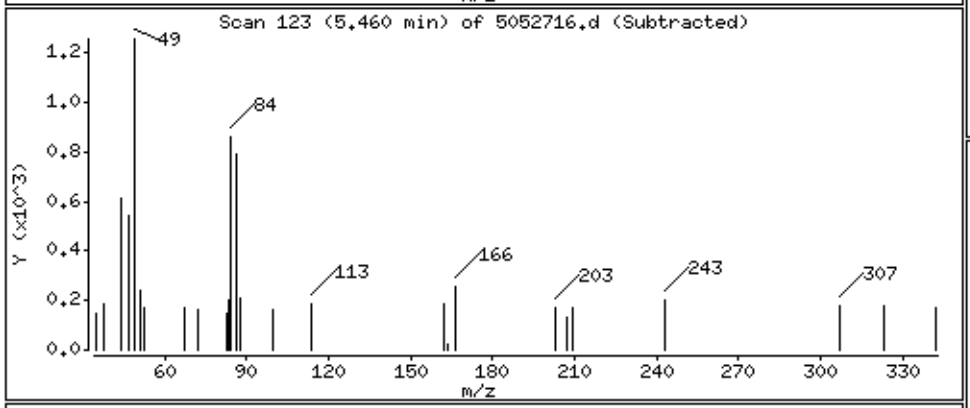
Column phase: RTx-624

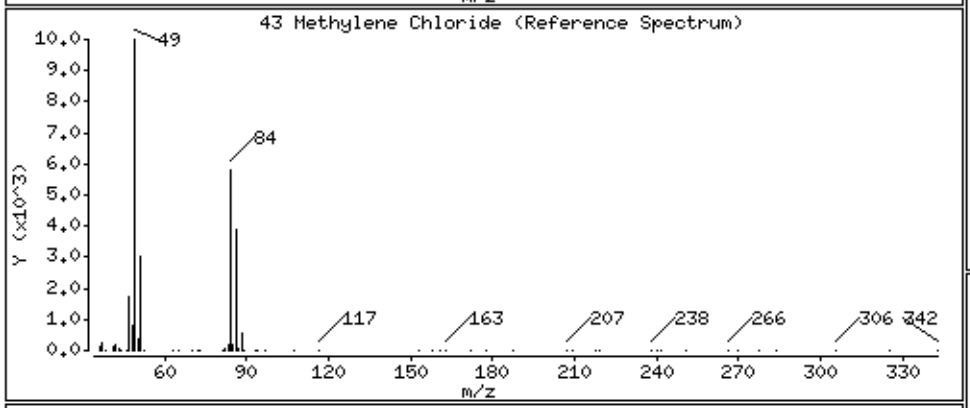
Column diameter: 0.53

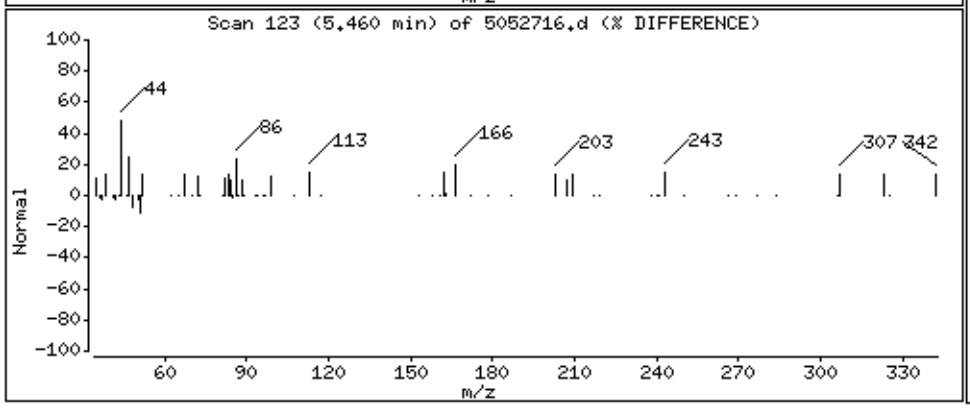
43 Methylene Chloride

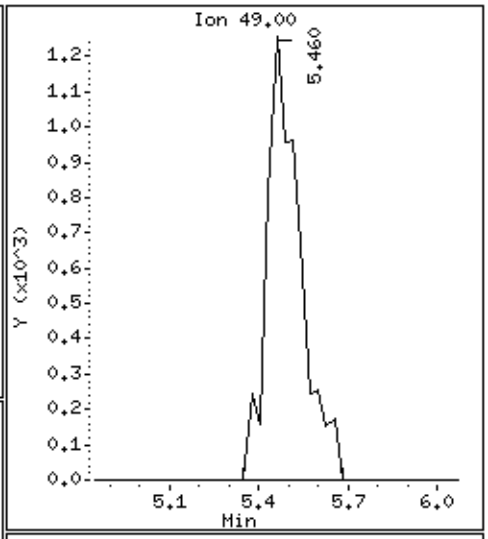
Concentration: 0.7758 PPBV

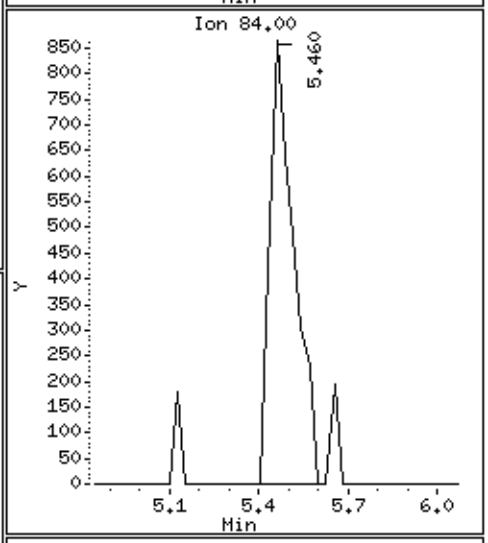


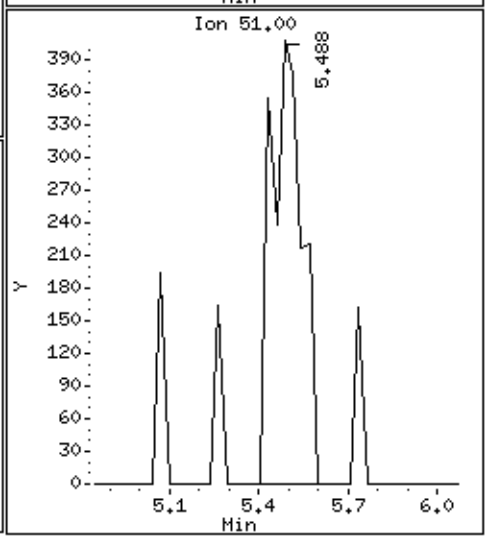












Data File: /chem/msd5.i/5-27may.b/5052716.d

Date : 27-MAY-2008 18:27

Client ID:

Instrument: msd5.i

Sample Info: 200mL #96105

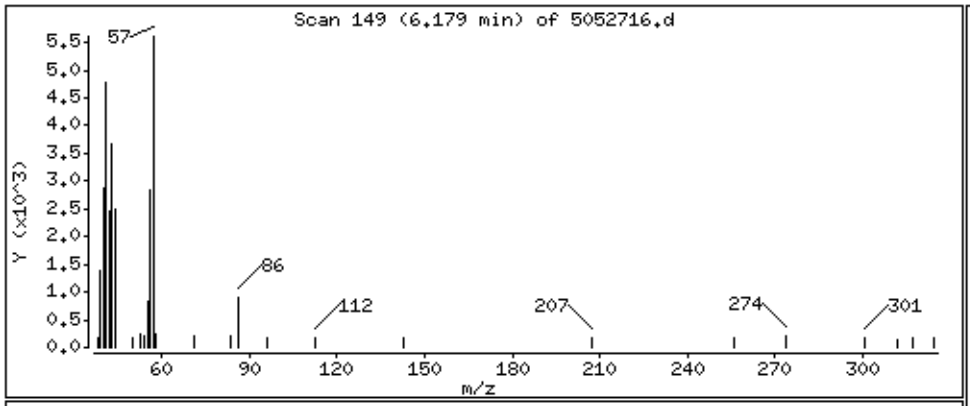
Operator: srs

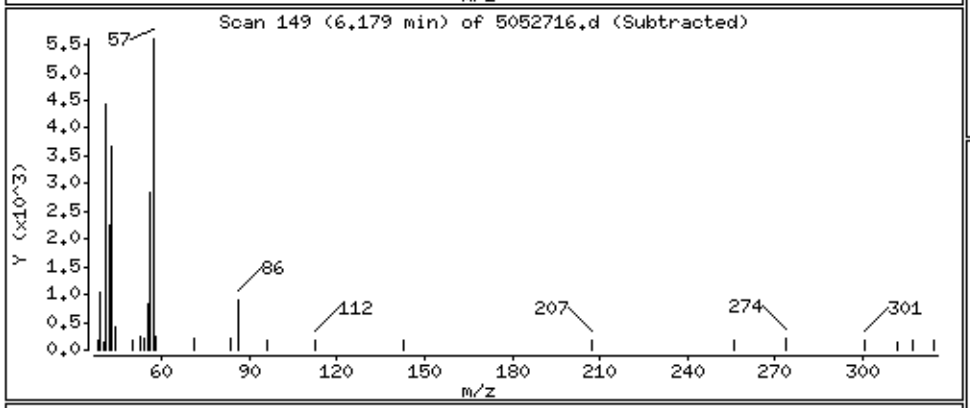
Column phase: RTx-624

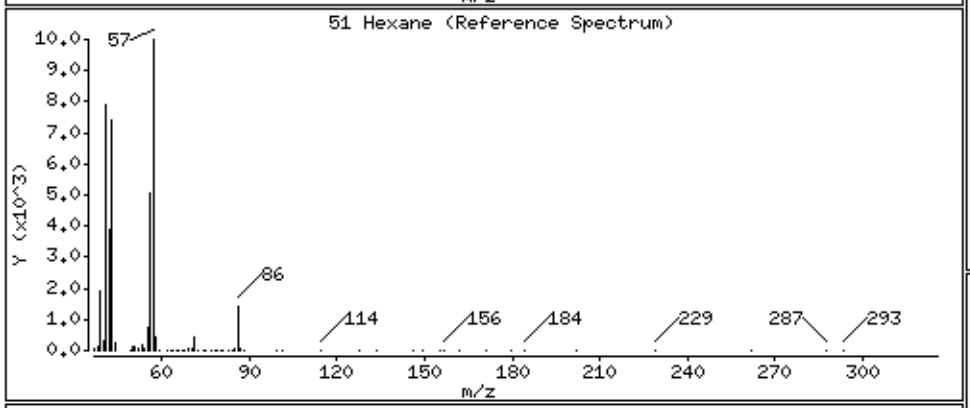
Column diameter: 0.53

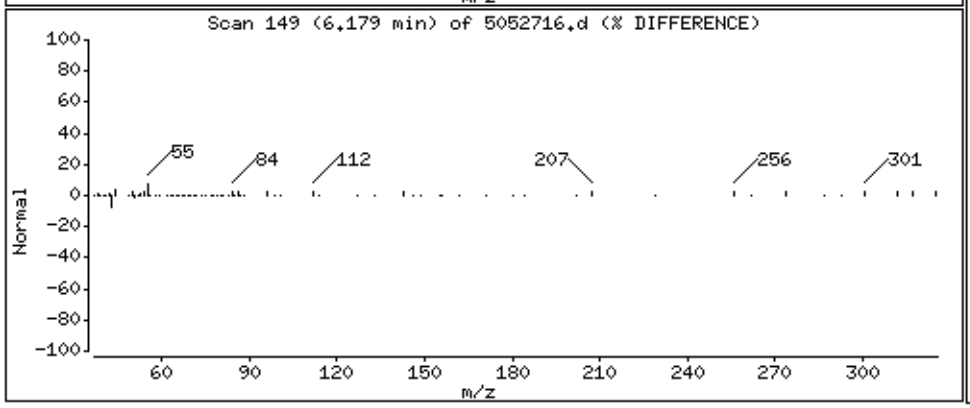
51 Hexane

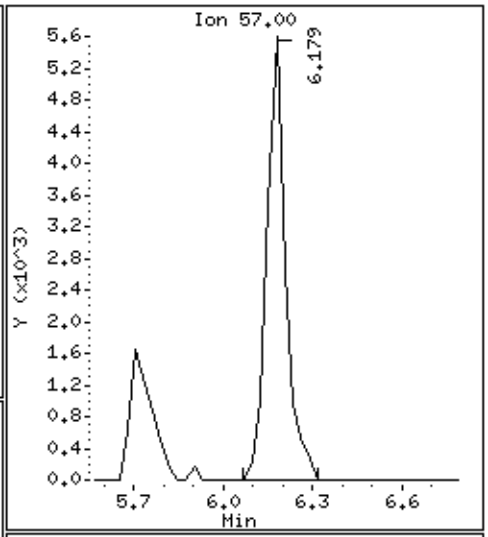
Concentration: 1.378 PPBV

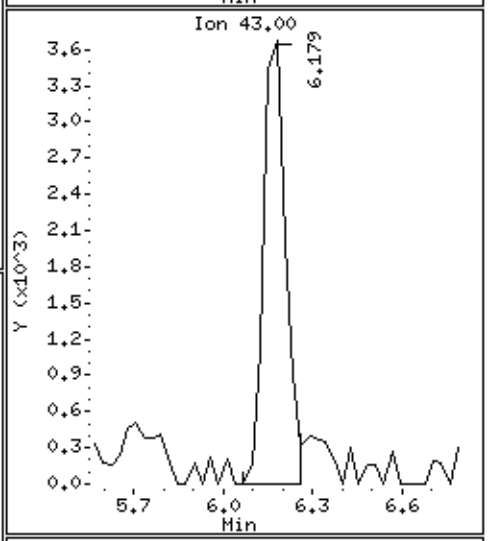


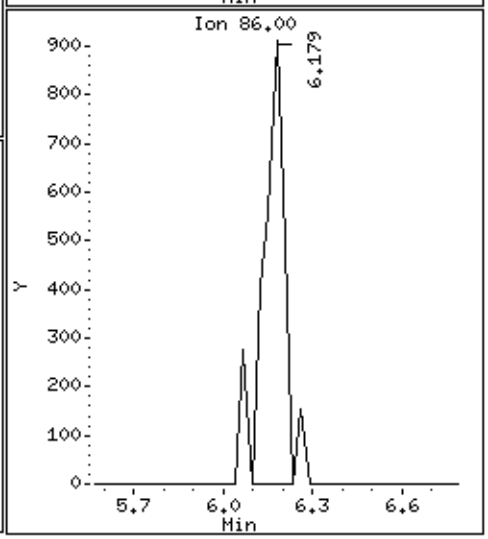












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805378-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/08 11:55 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805378-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/08 11:55 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected U J	1.5	Not Detected U J
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 U J	2.3	Not Detected U J
Naphthalene	2.0	Not Detected	10	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27may.b/5052706.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 27-MAY-2008 11:55
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Cart #11/ Leg #8
Comment :
Method : /var/chem/msd5.i/5-27may.b/t14q424b.m
Meth Date : 27-May-2008 08:05 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	229237	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	178630			45.02- 105.02	77.92
8.059	8.059 (1.000)	49	346695			114.95- 174.95	151.24
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	790503	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	107413			0.00- 43.32	13.59
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	725910	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	334308			0.00- 30.00	46.05
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	232140	19.9509	19.951	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	121438			30.69- 90.69	52.31
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	662979	22.0698	22.070	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	59410			0.00- 39.37	8.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	421674			37.11- 97.11	63.60
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	469581	26.6413	26.641	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	524781			82.22- 142.22	111.76
16.575	16.575 (1.105)	176	445263			67.35- 127.35	94.82

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052706.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: Cart #11/ Leg #8

Calibration Date: 27-MAY-2008
Calibration Time: 07:51
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	312772	187663	437881	229237	-26.71
92 1,4-Difluorobenze	1084143	650486	1517800	790503	-27.08
125 Chlorobenzene-d5	954976	572986	1336966	725910	-23.99

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

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

Report Date: 27-May-2008 12:01

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-27may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: Cart #11/ Leg #8

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	19.951	79.80	70-130
$ 107 Toluene-d8	25.000	22.070	88.28	70-130
$ 138 Bromofluorobenzene	25.000	26.641	106.57	70-130

Data File: /chem/msd5.i/5-27may.b/5052706.d

Date : 27-MAY-2008 11:55

Client ID: Lab Blank

Sample Info: 200mL #12941

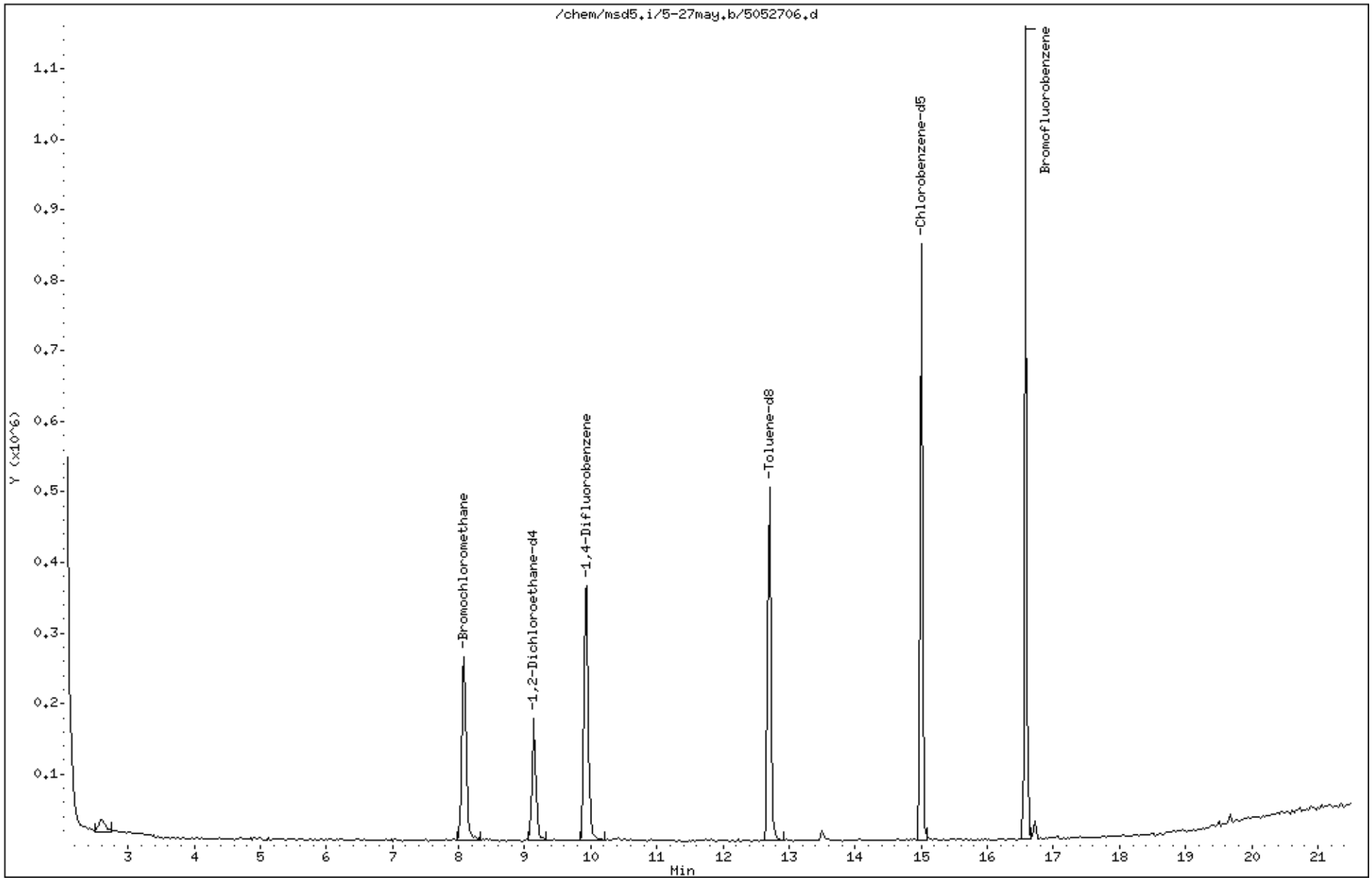
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0045



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0805378

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 3	81		88		106				0
02	UW AMS 1	78		91		108				0
03	DW-AMS-3 (Trip Blank)	81		89		106				0
04	Lab Blank	80		88		106				0
05	CCV	78		89		110				0
06	LCS	80		93		112				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: 0805378

Lab File ID: 5052702.d | Date Analyzed: 05/27/2008

Instrument ID: msd5.i | Time Analyzed: 07:51 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	954976		15		1084143		9.94		312772		8.09	
	UPPER LIMIT	1336966		15.33		1517800		10.27		437881		08.42	
	LOWER LIMIT	572986		14.67		650486		09.61		187663		07.76	
	CLIENT SAMPLE NO												
01	DW AMS 3	724588		15		786772		9.94		225210		8.09	
02	UW AMS 1	711751		15		752986		9.94		219281		8.09	
03	DW-AMS-3 (Trip Blank)	692783		15		743494		9.94		214398		8.09	
04	Lab Blank	725910		15		790503		9.94		229237		8.09	
05	CCV	954976		15		1084143		9.94		312772		8.09	
06	LCS	767667		15		847698		9.91		235586		8.06	
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 : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/msd5.i/5-24apr.b/5042413.d
Level 2: /var/chem/msd5.i/5-24apr.b/5042414.d
Level 3: /chem/msd5.i/5-15may.b/5051505.d
Level 4: /var/chem/msd5.i/5-24apr.b/5042416.d
Level 5: /chem/msd5.i/5-15may.b/5051506.d
Level 6: /var/chem/msd5.i/5-24apr.b/5042418.d
Level 7: /chem/msd5.i/5-15may.b/5051507.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	1.55099	2.26666	2.13302	1.93866	1.80916	1.93970	14.408
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.65175	2.66596	3.61957	3.38330	3.11572	3.20397	3.10671	12.469
9 Freon 114	+++++	2.03286	2.07870	3.06026	2.81589	2.67780	2.51929	2.53080	16.154
10 Chloromethane	+++++	+++++	1.99632	2.66910	2.48169	2.26860	2.25824	2.33479	10.881
11 Butane	+++++	+++++	0.46720	0.56323	0.52069	0.50107	0.47235	0.50491	7.764
12 1,3-Butadiene	2.68364	1.24930	1.42563	2.03263	1.99948	1.90640	1.82755	1.87495	24.739
13 Vinyl Chloride	+++++	1.53130	1.45895	2.29544	2.11603	2.02012	1.95144	1.89555	17.504
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	0.87840	0.75647	1.17367	1.20731	1.18131	1.16069	1.05964	18.132
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	+++++	+++++	2.42579	3.51099	3.39504	3.21805	3.09571	3.12912	13.561

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Chloroethane	+++++	0.80965	0.70216	1.13837	1.02942	0.99913	0.96937	0.94135	16.813
20 Trichlorofluoromethane/Fr11	+++++	2.35230	2.64117	3.74397	3.60173	3.41655	3.25636	3.16868	17.471
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 Ethanol	+++++	+++++	0.53043	0.86770	0.86700	0.75735	0.72053	0.74860	18.494
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++	1.59753	1.65562	2.28010	2.11527	2.07237	1.99259	1.95225	13.819
31 1,1-Dichloroethene	+++++	1.89339	1.95441	2.96826	2.85293	2.75857	2.61636	2.50732	18.618
32 Acetone	+++++	+++++	0.79187	1.02568	1.00082	1.01356	0.96997	0.96038	10.043
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++	3.50442	3.39393	5.05180	4.82791	4.70780	4.47525	4.32685	16.311
36 2-Propanol	+++++	+++++	2.45298	3.87834	3.95950	3.99153	3.85675	3.62782	18.168
37 tert-Butyl-Alcohol	+++++	+++++	1.89445	2.34598	2.02399	1.73016	1.29692	1.85830	20.809

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
38 3-Chloropropene	+++++	+++++	0.40776	0.86612	0.83706	0.81927	0.79121	0.74428	25.539	
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 Methylene Chloride	+++++	2.17125	1.77048	2.63289	2.46455	2.36073	2.25166	2.27526	12.997	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 MTBE	+++++	1.50269	1.14477	2.77839	2.62016	2.61014	2.39535	2.17525	31.271	<-
47 trans-1,2-Dichloroethene	+++++	1.23473	1.34224	1.94190	1.84917	1.74383	1.68711	1.63316	17.330	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	2.13256	2.44252	3.90550	3.75261	3.60689	3.43484	3.21249	23.027
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.54792	2.30414	3.49157	3.38363	3.24591	3.10393	3.01285	15.902
56 Vinyl Acetate	+++++	+++++	0.21633	0.47604	0.46702	0.46313	0.45966	0.41643	26.902
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
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	+++++	1.57054	1.76262	2.59796	2.49411	2.36025		
	2.26367						2.17486	19.051
67 2-Butanone	+++++	0.39124	0.56473	0.90127	0.85795	0.86355		
	0.83105						0.73496	28.258

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	3.12236	2.04898	3.08667	2.98625	2.82001	2.73517	2.79990	14.191
72 Chloroform	3.79671	2.43454	1.99490	3.21927	3.04948	2.89534	2.79007	2.88290	19.898
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.60203	1.48208	2.56583	2.48008	2.34492	2.27598	2.12515	21.853
75 1,1,1-Trichloroethane	+++++	2.59165	1.90373	3.05491	2.98910	2.82189	2.70083	2.67702	15.555
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	2.07641	1.63147	2.83501	2.68823	2.61239	2.53549	2.39650	18.949
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2,2,4-Trimethylpentane	+++++	7.24855	6.55974	11.20063	10.70025	10.31372	9.59083	9.26895	20.695
81 Benzene	1.77995	0.93441	0.89335	1.40203	1.30564	1.25939	1.20260	1.25391	23.838
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,2-Dichloroethane	+++++	0.37029	0.35822	0.53913	0.50406	0.48155	0.45413	0.45123	16.179
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Octane	+++++	+++++	0.26237	+++++	0.42673	+++++	0.42132	0.37014	25.225

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Heptane	+++++	0.10275	0.11105	0.16131	0.15633	0.14724	0.14362	0.13705	17.753
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Trichloroethene	+++++	0.42200	0.36136	0.54488	0.50789	0.48570	0.46779	0.46494	14.021
94 Methyl Cyclohexane	+++++	0.57515	0.51058	0.81870	0.77118	0.73095	0.70658	0.68552	17.305
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.33302	0.30841	0.49807	0.47028	0.44700	0.43003	0.41447	18.465
99 1,4-Dioxane	+++++	+++++	0.19738	0.30839	0.30453	0.28778	0.27612	0.27484	16.451
100 Bromodichloromethane	+++++	0.44096	0.43854	0.74973	0.69860	0.66766	0.64534	0.60680	22.093

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.35708	0.33551	0.55599	0.54965	0.53126		
	0.51941						0.47482	21.193
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.22063	0.22108	0.41191	0.38852	0.38260		
	0.37121						0.33266	26.338
108 Toluene	+++++	0.95590	0.98045	1.46944	1.37141	1.29243		
	1.24848						1.21969	17.133
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.35839	0.33336	0.54838	0.56417	0.53521	0.55026	0.48163	21.977
114 1,1,2-Trichloroethane	+++++	0.34807	0.30137	0.51241	0.49192	0.45132	0.44560	0.42511	19.522
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Tetrachloroethene	+++++	0.39536	0.46767	0.64596	0.62702	0.58770	0.58807	0.55196	17.876
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 2-Hexanone	+++++	+++++	0.34169	0.53643	0.55892	0.54822	0.56114	0.50928	18.496
120 Dibromochloromethane	+++++	0.44513	0.46481	0.74068	0.72564	0.68286	0.70792	0.62784	21.570
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 1,2-Dibromoethane	0.94638	0.47758	0.51462	0.79651	0.77738	0.72873	0.73410	0.71076	23.048
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	0.78396	0.81168	1.19936	1.13646	1.06827	1.07096	1.01178	17.083
127 Nonane	+++++	+++++	0.71682	+++++	1.23107	+++++	1.24467	1.06419	28.275
128 Ethyl Benzene	+++++	0.39688	0.43686	0.66089	0.65065	0.61255	0.59948	0.55955	20.296
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.47090	0.54238	0.83373	0.80773	0.75893	0.76066	0.69572	21.690
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.48149	0.48141	0.77972	0.75810	0.70358	0.69827	0.65043	20.688

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Styrene	1.26494	0.67856	0.70280	1.21935	1.20021	1.13989	1.12924	1.04786	23.708
134 Bromoform	+++++	0.47281	0.38311	0.69206	0.70268	0.67871	0.68286	0.60204	22.929
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Cumene	2.51615	1.41128	1.50925	2.28295	2.20880	2.09577	1.63719	1.95163	21.959
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.79632	0.79917	1.10121	1.06443	1.01446	0.97450	0.95835	13.738
142 Propylbenzene	+++++	1.72459	1.76470	2.57632	2.57292	2.41591	1.97137	2.17097	18.310
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 4-Ethyltoluene	+++++	1.39175	1.54045	2.37218	2.42153	2.27393	1.80049	1.96672	22.802
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1,3,5-Trimethylbenzene	2.11823	1.26866	1.34535	2.08359	2.03283	1.94078	1.46101	1.75006	21.408
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	1.60994	0.98072	1.09745	1.69185	1.67993	1.61865	1.60198	1.46865	20.248
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
155 1,3-Dichlorobenzene	+++++	0.84053	0.87148	1.13219	1.11736	1.07281	1.08433	1.01978	12.654	
156 1,4-Dichlorobenzene	+++++	1.00233	1.08949	1.43149	1.45097	1.39977	1.33115	1.28420	14.874	
157 alpha-Chlorotoluene	+++++	0.81198	1.05023	1.69854	1.84875	1.92279	1.33727	1.44493	31.316	<-
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
159 1,2-Dichlorobenzene	+++++	0.84670	1.02235	1.12726	1.12945	1.09132	1.05909	1.04603	10.124	
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
163 1,2,4-Trichlorobenzene	+++++	+++++	0.85576	0.70648	0.75774	0.74671	0.77987	0.76931	7.172	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-15may.b/t14q424b.m
Cal Date : 15-May-2008 11:34 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	0.51444	0.52054	0.52223	0.50424		
	0.53372						0.51903	2.085
165 Naphthalene	+++++	+++++	2.74543	2.50445	2.88705	2.81975		
	1.36545						2.46443	25.609
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
193 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.29246	1.13364	1.27531	1.28494	1.25825		
	1.36905						1.26895	6.032
$ 107 Toluene-d8	+++++	0.96474	0.91332	0.96077	0.97210	0.93754		
	0.95171						0.95003	2.270
$ 138 Bromofluorobenzene	+++++	0.59686	0.59255	0.61523	0.61442	0.60310		
	0.62004						0.60703	1.834

Calibration History

Method : /chem/msd5.i/5-15may.b/t14q424b.m
Start Cal Date: 24-APR-2008 13:56
End Cal Date : 15-MAY-2008 11:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
24-APR-2008 13:56	AFCEElow	/var/chem/msd5.i/5-24apr.b/5042413.d
Cal Level: 2 , Cal Amount: 0.50000		
24-APR-2008 14:23	AT08Low	/var/chem/msd5.i/5-24apr.b/5042414.d
Cal Level: 3 , Cal Amount: 2.00000		
15-MAY-2008 10:24	Sp2b	/chem/msd5.i/5-15may.b/5051505.d
24-APR-2008 18:31	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042421.d
Cal Level: 4 , Cal Amount: 25.00000		
24-APR-2008 15:19	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042416.d
Cal Level: 5 , Cal Amount: 50.00000		
15-MAY-2008 10:52	Sp2b	/chem/msd5.i/5-15may.b/5051506.d
24-APR-2008 15:47	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042417.d
Cal Level: 6 , Cal Amount: 100.00000		
24-APR-2008 16:15	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042418.d
Cal Level: 7 , Cal Amount: 200.00000		
15-MAY-2008 11:25	Sp2b	/chem/msd5.i/5-15may.b/5051507.d
24-APR-2008 16:48	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042419.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
15-MAY-2008 10:52	Sp2bccv	/chem/msd5.i/5-15may.b/5051506a.d
Ccal Level: 5 , Ccal Amount: 50.000		
15-MAY-2008 10:52	Sp2b	/chem/msd5.i/5-15may.b/5051506.d

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	23.52
75	30.0 – 60.0% of mass 95	41.44
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.34
173	Less than 2.0% of mass 174	(0.65)[1]
174	Greater than 50.0% of mass 95	80.24
175	5.0 – 9.0% of mass 174	(7.33)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.02)[1]
177	5.0 – 9.0% of mass 176	(6.23)[2]

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

BFB Injection Date: 5042412

BFB Injection Time: 1323

BFB File ID: 5042412

Tekmar Purge Flow: 13.3 mL/min

Vacuum: 6.56e+06

IS/S Std.#: 1541-103	Exp. Date: 7-4-08
BCM	296697
1,4-DFB	1234462
CB-d5	1186736

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

Verify 176/174 m/z Ratio: (95284 / 99137) x 100 = 96.019

NOAH Cart #: 11/8 **File #:** 5042408 / 5042424

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{(\ 1200024\ )}{(\ 1234462\ )} \times \frac{(\ 25.0\ )}{(\ 0.95003\ )}$ = 25.581

File ID: 5042417
Compound: Toluene-d8
Initials: KR

Reported Result 25.581

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5042412	BFB Tune Check	14226	50 psig	20 µL	1.00	4/24/08	1323	KR	
2	✓	13	ICAL Level 1	16L-1	0.3 ppbv	0.3 mL			1356	KR	
3	✓	14	2		0.5 ppbv	0.5 mL			1423	KR	
4	X	15	3		2.0 ppbv	2.0 mL			1451	KR	
5	✓	16	4		25 ppbv	25 mL			1519	KR	
6	✓	17	5		50 ppbv	50 mL			1547	KR	
7	✓	18	6		100 ppbv	100 mL			1615	KR	
8	✓	19	7		200 ppbv	200 mL			1648	KR	
9	✓	20	System Blank	12941	Humid	200 mL			1720	KR	

Signature

4-24-08

Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

8900

10	✓	5042421	ICAL level 3	1612-1	2.0ppbv	2.0mL	1.00	4/24/08	1831	KR	
11	✓	22	LCS (200ppbv)	1576338	50ppbv	50mL	1.00		1922	KR	ICAL LCS
12	✓	23	System Blank	12941	Humid	200mL	1.00		2034	KR	
13	✓	24	Lab Blank	↓	↓	↓	↓		2136	KR	Cert Cert #8, leg 1
14	✓	25	0804306A - 01AA	1359	4.5"Hg 15psi	75mL	6.35		2230	KR	RR 45mL
15	X	26	-02A	SC24	2.5"Hg 15psi	16mL	2.20		2258	KR	RR 10mL
16	✓	27	-01A	1359	4.5"Hg 15psi	45mL	10.6		2357	DM/KR	
17	✓	28	-02A	SC24	2.5"Hg 15psi	10mL	44.0	4/25/08	0028	DM/KR	
18	✓	29	-03A	1368	5.5"Hg	200mL	2.47		0101	DM/KR	
19	✓	30	-04A	SC12	8.5"Hg	↓	2.52		0133	DM/KR	
20	✓	31	-05A	2208	5.0"Hg	↓	2.42		0206	DM/KR	
21	✓	32	-06A	9469	4.0"Hg	15mL	31.1		0233	DM/KR	
22	✓	33	-07A	1457	5.0"Hg	200mL	2.47		0306	DM/KR	
23	✓	34	-09A	13897	28.5"Hg	↓	1.00		0339	DM/KR	trip blank
24	✓	5042435	0804151A - 05A	lab	4.0"Hg 15psi	200mL	2.33	4/25/08	0805	KR	
25											
26											
27											
28											
29										DM 4/25/08	
30											
31											
32											

Comments: Flow Controller SN# AA920318 Actual : 25.0 mL/min

NIST Flow device SN 20077414 Nominal : 22.6 mL/min

Signature

4/24/08
Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

6900

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.44
75	30.0 – 60.0% of mass 95	42.66
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.47
173	Less than 2.0% of mass 174	(0.56)[1]
174	Greater than 50.0% of mass 95	86.53
175	5.0 – 9.0% of mass 174	(6.79)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.82)[1]
177	5.0 – 9.0% of mass 176	(6.83)[2]

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

BFB Injection Date: 5/15/08

BFB Injection Time: 0813

BFB File ID: 5051501

Tekmar Purge Flow: 13.5 mL/min

Vacuum: 6.44 x 10^-6 5/15/08

IS/S Std.#:	1541-103	Exp. Date: 5/4/08
BCM	311892	
1,4-DFB	1102587	
CB-d5	9421663	

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

Verify 176/174 m/z Ratio: (7349776 / 7670240) x100 = 95.819

NOAH Cart #: 8/7 **File #:** 5051508 / 5051512

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{(\ 951262\ )}{(\ 1102587\ )} \times \frac{(\ 25.000\ )}{(\ 0.950023\ )}$ = 22.7039

File ID:	5051502
Compound:	Toluene-d8
Initials:	SS

Reported Result 22.703

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5051501	BFB Tune Check	14776-279	50psig	2.0µl	100	5/15/08	0813	SS	
2	✓	02	1612-1 200ppbv	CCV-1	50ppbv	50µl			0839	SS	
3	✓	03	15776-338 200ppbv	LCS-1	50ppbv	50µl			0907	SS	
4	✓	04	↓	LCS11	↓	↓			0946	SS	
5	✓	05	Sp ICAL Level 3	1612-11e	2.0ppbv	2.0ml			1024	SS	Sp2b.ccv
6	✓	06	↓ J	↓	50ppbv	50ml			1052	SS	↓
7	✓	07	↓ 7	↓	200ppbv	20ml		5/15/08	1125	SS	↓
8	✓	08	Lab Blank	12941	Humid	20ml			1227	SS	Cart#8/Leg#8
9	✓	09	Cart#14/Leg#5	12941	Humid	20ml	↓	↓	1324	SS	

Signature

5/15/08
Date

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 4/24/2008. As noted on the accompanying analytical run log, the following point, ICAL Level 3, was re-analyzed due to:

a. anomalous unacceptable linearity for Methyl tert-Butyl Ether, 2-Butanone, Chloroform, Benzene, Styrene, Cumene, 1,3,5-Trimethylbenzene and alpha-Chlorotoluene.

The following compounds used either 0.3ppbv as the lowest calibration concentration: 1,3-Butadiene, Chloroform, Benzene, Cumene, Styrene, 1,2-Dibromoethane, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

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

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042422.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 24-APR-2008 19:22
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1576-338
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:10 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	331589	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	256337			47.51- 107.51	77.31
8.059	8.059 (1.000)	49	602288			158.47- 218.47	181.64
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1351053	25.0000		70.00- 130.00	100.00
9.911	9.912 (1.000)	88	192850			0.00- 44.75	14.27
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1255534	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	613156			0.00- 30.00	48.84
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	396044	23.5310	23.531	70.00- 130.00	100.00
9.110	9.137 (1.130)	67	237937			0.00- 30.00	60.08
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1238972	24.1319	24.132	70.00- 130.00	100.00
12.676	12.704 (1.279)	70	118132			0.00- 30.00	9.53

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	863921			0.00- 30.00	69.73
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	777354	25.4987	25.499	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	999529			98.07- 158.07	128.58
16.575	16.575 (1.105)	176	748102			65.46- 125.46	96.24
6 Propylene					CAS #: 115-07-1		
2.253	2.280 (0.280)	41	1501366	58.3569	58.357	70.00- 130.00	100.00
2.253	2.280 (0.280)	42	981130			0.00- 30.00	65.35
2.253	2.280 (0.280)	39	1049981			0.00- 30.00	69.94
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2188824	53.1190	53.119	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	715403			0.00- 30.00	32.68
9 Freon 114					CAS #: 76-14-2		
2.446	2.474 (0.304)	135	1940441	57.8073	57.807	70.00- 130.00	100.00
2.446	2.474 (0.304)	137	610608			2.03- 62.03	31.47
10 Chloromethane					CAS #: 74-87-3		
2.584	2.640 (0.321)	50	1682776	54.3398	54.340	70.00- 130.00	100.00
2.584	2.640 (0.321)	52	479349			0.00- 30.00	28.49
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.778 (0.341)	62	1479192	58.8342	58.834	70.00- 130.00	100.00
2.750	2.778 (0.341)	64	440380			0.00- 30.00	29.77
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.778 (0.341)	54	1328688	53.4286	53.428	70.00- 130.00	100.00
2.750	2.778 (0.341)	39	1646858			0.00- 30.00	123.95
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	816130	58.0684	58.068	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	771726			62.86- 122.86	94.56
19 Chloroethane					CAS #: 75-00-3		
3.386	3.442 (0.420)	64	734549	58.8314	58.831	70.00- 130.00	100.00
3.386	3.442 (0.420)	49	229784			0.00- 30.00	31.28
3.386	3.442 (0.420)	66	231068			0.00- 30.00	31.46
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.746 (0.461)	101	2408013	57.2955	57.295	70.00- 130.00	100.00
3.718	3.746 (0.461)	103	1574807			33.46- 93.46	65.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.133 (0.506)	45	612260	61.6631	61.663	70.00- 130.00	100.00
4.077	4.133 (0.506)	43	117827			0.00- 30.00	19.24
4.077	4.133 (0.506)	46	244574			0.00- 30.00	39.95
30 Freon 113					CAS #: 76-13-1		
4.520	4.548 (0.561)	151	1640606	63.3591	63.359	70.00- 130.00	100.00
4.520	4.548 (0.561)	153	1061988			33.20- 93.20	64.73
4.520	4.548 (0.561)	101	2190742			106.78- 166.78	133.53
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2110296	63.4562	63.456	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1195787			23.41- 83.41	56.66
4.575	4.575 (0.568)	98	751299			4.01- 64.01	35.60
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	693397	54.4350	54.435	70.00- 130.00	100.00
4.713	4.741 (0.585)	43	2347609			0.00- 30.00	338.57
36 2-Propanol					CAS #: 67-63-0		
4.907	4.935 (0.609)	45	2771921	57.6069	57.607	70.00- 130.00	100.00
4.907	4.935 (0.609)	43	639999			0.00- 30.00	23.09
4.935	4.935 (0.612)	59	90037			0.00- 30.00	3.25
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	3263951	56.8737	56.874	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.211 (0.643)	76	576722	58.4210	58.421	70.00- 130.00	100.00
5.183	5.211 (0.643)	41	2265985			0.00- 30.00	392.91
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	1772014	58.7187	58.719	70.00- 130.00	100.00
5.432	5.460 (0.674)	84	1028336			26.74- 86.74	58.03
5.432	5.460 (0.674)	51	549037			0.00- 30.00	30.98
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1797365	62.2970	62.297	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	537907			0.00- 59.41	29.93
5.764	5.764 (0.715)	41	606240			0.00- 30.00	33.73
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1232976	56.9201	56.920	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	1925292			130.65- 190.65	156.15
5.819	5.819 (0.722)	98	766450			0.00- 30.00	62.16

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	2479052	58.1814	58.181	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	1863890			0.00- 30.00	75.19
6.151	6.151 (0.763)	86	367075			0.00- 30.00	14.81
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	312699	56.6136	56.614	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	4150559			0.00- 30.00	1327.33
6.649	6.649 (0.825)	42	313026			0.00- 30.00	100.10
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2287723	57.2487	57.249	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	700142			0.00- 59.62	30.60
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	581995	59.7027	59.703	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	3136421			533.62- 593.62	538.91
7.644	7.644 (0.949)	57	212445			0.00- 30.00	36.50
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1615757	56.0125	56.012	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1180723			42.00- 102.00	73.08
7.617	7.617 (0.945)	98	770418			15.56- 75.56	47.68
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1853020	49.8973	49.897	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	496644			0.00- 56.55	26.80
8.031	8.031 (0.997)	72	578454			0.00- 30.00	31.22
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1962704	51.3292	51.329	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	1266070			35.57- 95.57	64.51
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1875433	52.8190	52.819	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	1201320			34.21- 94.21	64.06
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.419 (1.045)	84	1571870	55.7656	55.766	70.00- 130.00	100.00
8.418	8.419 (1.045)	56	2309787			117.94- 177.94	146.95
8.418	8.419 (1.045)	41	1349350			54.92- 114.92	85.84
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1729266	54.4032	54.403	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1767130			74.41- 134.41	102.19

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	6763489	55.0149	55.015	70.00- 130.00	100.00
9.082	9.110 (1.127)	56	2215708			0.00- 30.00	32.76
9.082	9.110 (1.127)	41	1785312			0.00- 30.00	26.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3452029	50.9419	50.942	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	807997			0.00- 30.00	23.41
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1332609	54.6477	54.648	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	403024			0.00- 30.00	30.24
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	429408	57.9773	57.977	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	2845947			0.00- 30.00	662.76
9.469	9.469 (0.955)	71	1240380			0.00- 30.00	288.86
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1330615	52.9574	52.957	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	1368069			70.08- 130.08	102.81
10.326	10.326 (1.042)	97	872410			35.30- 95.30	65.56
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.852 (1.092)	63	1206440	53.8619	53.862	70.00- 130.00	100.00
10.824	10.852 (1.092)	62	838099			41.10- 101.10	69.47
10.824	10.852 (1.092)	41	796076			36.18- 96.18	65.99
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	760792	51.2217	51.222	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	594446			47.45- 107.45	78.14
11.073	11.073 (1.117)	57	189225			0.00- 30.00	24.87
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1818101	55.4417	55.442	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	1169331			34.05- 94.05	64.32
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1410863	54.9828	54.983	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	453184			1.82- 61.82	32.12
12.289	12.317 (1.240)	39	932797			36.40- 96.40	66.12
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.594 (1.271)	58	1020712	56.7766	56.776	70.00- 130.00	100.00
12.593	12.594 (1.271)	43	2973888			0.00- 30.00	291.35
12.593	12.594 (1.271)	85	387521			0.00- 30.00	37.97

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	3651425	55.3965	55.396	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2140020			27.75- 87.75	58.61
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1369740	56.6289	56.629	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	445466			2.38- 62.38	32.52
13.340	13.368 (0.889)	39	929200			35.96- 95.96	67.84
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1160208	54.3428	54.343	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	754821			33.83- 93.83	65.06
13.644	13.644 (0.910)	83	970858			52.70- 112.70	83.68
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.700 (0.913)	166	1558346	56.2167	56.217	70.00- 130.00	100.00
13.672	13.700 (0.912)	129	1147833			44.73- 104.73	73.66
13.699	13.700 (0.913)	131	1110599			40.60- 100.60	71.27
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1418073	55.4439	55.444	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	2882593			181.71- 241.71	203.28
14.004	14.004 (0.934)	100	265430			0.00- 30.00	18.72
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1793150	56.8695	56.870	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	1397788			0.00- 30.00	77.95
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1827951	51.2100	51.210	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	1742982			65.00- 125.00	95.35
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2766941	54.4534	54.453	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	894424			2.42- 62.42	32.33
15.027	15.027 (1.002)	77	1534400			27.34- 87.34	55.45
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1565115	55.6953	55.695	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	4622099			0.00- 30.00	295.32
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1960833	56.1199	56.120	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	3721181			0.00- 30.00	189.78
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1819294	55.6949	55.695	70.00- 130.00	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	3660830			170.15- 230.15	201.22
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	2931227	55.7004	55.700	70.00- 130.00	100.00
15.911	15.912 (1.061)	78	1274197			13.62- 73.62	43.47
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1718733	56.8452	56.845	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	891098			22.36- 82.36	51.85
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2575821	53.5184	53.518	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	1661047			36.19- 96.19	64.49
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5650417	57.2070	57.207	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	1733895			0.17- 60.17	30.69
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4853979	55.2275	55.228	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	2492259			0.00- 30.00	51.34
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3966816	53.7820	53.782	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	1931371			17.48- 77.48	48.69
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2749774	53.6909	53.691	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	1768031			0.00- 30.00	64.30
17.764	17.764 (1.184)	111	1078980			0.00- 30.00	39.24
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3509232	54.4114	54.411	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	2205151			0.00- 30.00	62.84
17.847	17.847 (1.190)	111	1290286			0.00- 30.00	36.77
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4578753	63.0975	63.098	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1021388			0.00- 30.00	22.31
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2713296	51.6494	51.649	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	1744720			32.26- 92.26	64.30
18.206	18.206 (1.214)	111	1007933			7.92- 67.92	37.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.478 (1.300)	180	1856820	48.0595	48.060	70.00- 130.00	100.00
19.506	19.478 (1.300)	182	1733882			63.09- 123.09	93.38
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1235747	47.4073	47.407	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	767698			32.88- 92.88	62.12
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6158985	56.4894	56.489	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	1467611			0.00- 30.00	23.83
16.824	16.824 (1.122)	105	225979			0.00- 30.00	3.67
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5437672	55.4789	55.479	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	1545766			0.00- 30.00	28.43
16.326	16.326 (1.088)	51	603564			0.00- 30.00	11.10
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6993033	56.5017	56.502	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	870934			0.00- 30.00	12.45
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.571 (0.691)	59	1352031	54.8543	54.854	70.00- 130.00	100.00
5.570	5.571 (0.691)	41	403229			0.00- 30.00	29.82
5.570	5.571 (0.691)	57	130878			0.00- 30.00	9.68
11 Butane					CAS #: 106-97-8		
2.667	2.695 (0.331)	58	365901	54.6376	54.638	70.00- 130.00	100.00
2.667	2.695 (0.331)	43	3031457			0.00- 30.00	828.49
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2287263	55.1105	55.110	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1324654			0.00- 30.00	57.91
3.414	3.414 (0.424)	72	121895			0.00- 30.00	5.33
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.548 (1.064)	83	2017061	54.4459	54.446	70.00- 130.00	100.00
10.547	10.548 (1.064)	98	995005			0.00- 30.00	49.33
10.547	10.548 (1.064)	55	1888579			0.00- 30.00	93.63

Report Date: 25-Apr-2008 09:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042422.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	331589	11.76
92 1,4-Difluorobenze	1234462	740677	1728247	1351053	9.44
125 Chlorobenzene-d5	1186736	712042	1661430	1255534	5.80

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

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

Report Date: 25-Apr-2008 09:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-24apr
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: AT08.sub
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	53.119	106.24	70-130
9 Freon 114	50.000	57.807	115.61	70-130
10 Chloromethane	50.000	54.340	108.68	70-130
13 Vinyl Chloride	50.000	58.834	117.67	70-130
12 1,3-Butadiene	50.000	53.428	106.86	60-140
15 Bromomethane	50.000	58.068	116.14	70-130
19 Chloroethane	50.000	58.831	117.66	70-130
20 Trichlorofluoromet	50.000	57.295	114.59	70-130
26 Ethanol	50.000	61.663	123.33	60-140
30 Freon 113	50.000	63.359	126.72	70-130
31 1,1-Dichloroethene	50.000	63.456	126.91	70-130
35 Carbon Disulfide	50.000	56.874	113.75	60-140
32 Acetone	50.000	54.435	108.87	60-140
36 2-Propanol	50.000	57.607	115.21	60-140
38 3-Chloropropene	50.000	58.421	116.84	60-140
43 Methylene Chloride	50.000	58.719	117.44	70-130
46 MTBE	50.000	62.297	124.59	60-140
47 trans-1,2-Dichloro	50.000	56.920	113.84	60-140
51 Hexane	50.000	58.181	116.36	60-140
55 1,1-Dichloroethane	50.000	57.249	114.50	70-130
66 cis-1,2-Dichloroet	50.000	56.012	112.03	70-130
67 2-Butanone	50.000	59.703	119.41	60-140
70 Tetrahydrofuran	50.000	49.897	99.79	60-140
72 Chloroform	50.000	51.329	102.66	70-130
74 Cyclohexane	50.000	55.766	111.53	60-140
75 1,1,1-Trichloroeth	50.000	52.819	105.64	70-130
56 Vinyl Acetate	50.000	56.614	113.23	60-140
77 Carbon Tetrachlori	50.000	54.403	108.81	70-130
80 2,2,4-Trimethylpen	50.000	55.015	110.03	60-140
81 Benzene	50.000	50.942	101.88	70-130
85 1,2-Dichloroethane	50.000	54.648	109.30	70-130
90 Heptane	50.000	57.977	115.95	60-140
93 Trichloroethene	50.000	52.957	105.91	70-130

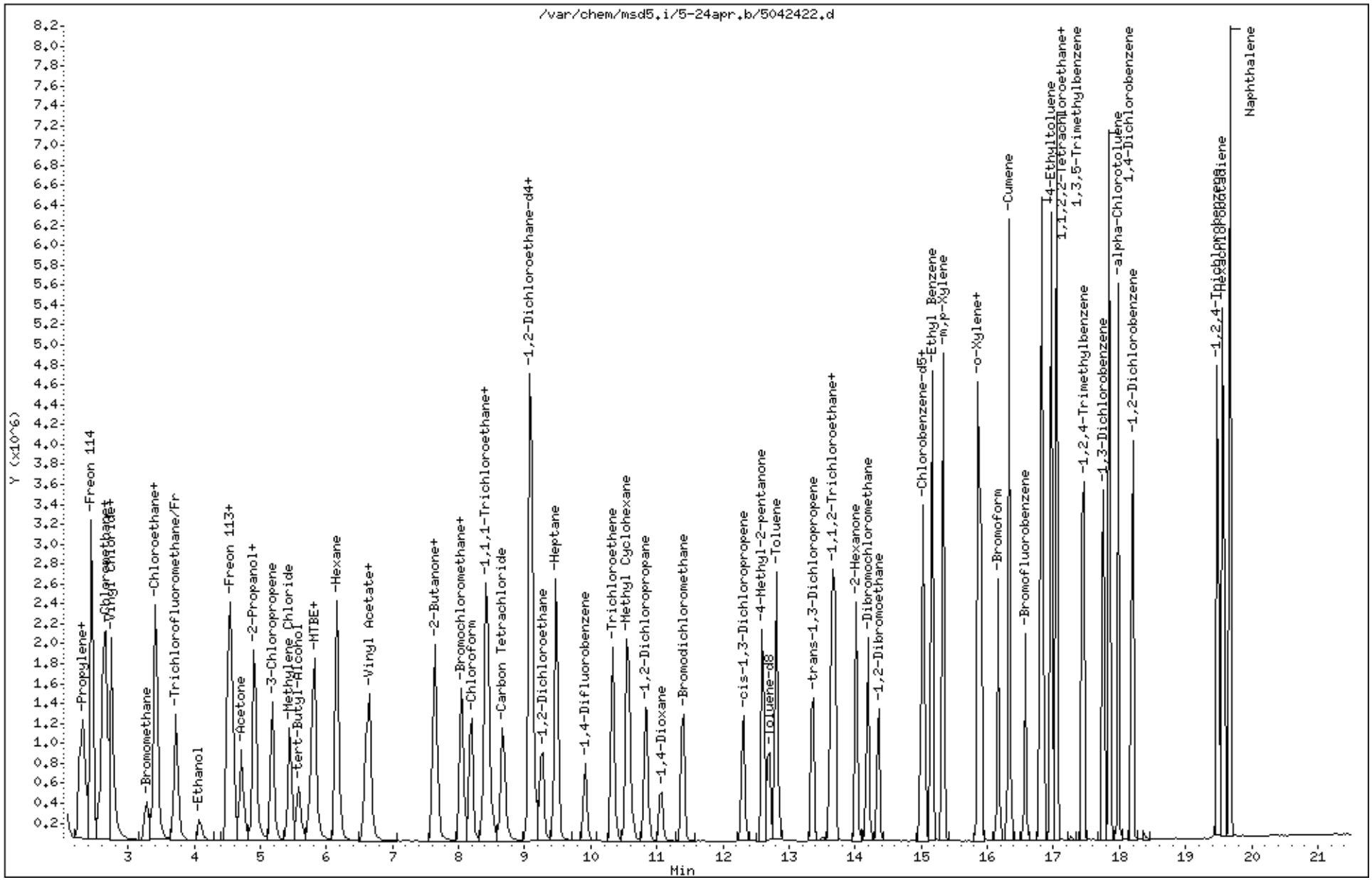
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	53.862	107.72	70-130
99 1,4-Dioxane	50.000	51.222	102.44	60-140
100 Bromodichlorometha	50.000	55.442	110.88	60-140
103 cis-1,3-Dichloropr	50.000	54.983	109.97	70-130
106 4-Methyl-2-pentano	50.000	56.776	113.55	60-140
108 Toluene	50.000	55.396	110.79	70-130
113 trans-1,3-Dichloro	50.000	56.629	113.26	70-130
114 1,1,2-Trichloroeth	50.000	54.343	108.69	70-130
116 Tetrachloroethene	50.000	56.217	112.43	70-130
119 2-Hexanone	50.000	55.444	110.89	60-140
120 Dibromochlorometha	50.000	56.870	113.74	60-140
122 1,2-Dibromoethane	50.000	51.210	102.42	70-130
126 Chlorobenzene	50.000	54.453	108.91	70-130
128 Ethyl Benzene	50.000	55.695	111.39	70-130
130 m,p-Xylene	50.000	56.120	112.24	70-130
132 o-Xylene	50.000	55.695	111.39	70-130
133 Styrene	50.000	55.700	111.40	70-130
134 Bromoform	50.000	56.845	113.69	60-140
136 Cumene	50.000	55.479	110.96	60-140
141 1,1,2,2-Tetrachlor	50.000	53.518	107.04	70-130
142 Propylbenzene	50.000	56.489	112.98	60-140
144 4-Ethyltoluene	50.000	57.207	114.41	60-140
147 1,3,5-Trimethylben	50.000	55.228	110.46	70-130
152 1,2,4-Trimethylben	50.000	53.782	107.56	70-130
155 1,3-Dichlorobenzen	50.000	53.691	107.38	70-130
156 1,4-Dichlorobenzen	50.000	54.411	108.82	70-130
157 alpha-Chlorotoluen	50.000	63.098	126.20	70-130
159 1,2-Dichlorobenzen	50.000	51.649	103.30	70-130
163 1,2,4-Trichloroben	50.000	48.060	96.12	70-130
164 Hexachlorobutadien	50.000	47.407	94.81	70-130
6 Propylene	50.000	58.357	116.71	70-130
165 Naphthalene	50.000	56.502	113.00	60-140
11 Butane	50.000	54.638	109.28	70-130
17 Isopentane	50.000	55.110	110.22	70-130
94 Methyl Cyclohexane	50.000	54.446	108.89	70-130
37 tert-Butyl-Alcohol	50.000	54.854	109.71	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.531	94.12	70-130
$ 107 Toluene-d8	25.000	24.132	96.53	70-130
$ 138 Bromofluorobenzene	25.000	25.499	101.99	70-130

Data File: /var/chem/msd5.i/5-24apr.b/5042422.d
Date : 24-APR-2008 19:22
Client ID: LCS-1
Sample Info: 50mL #1576-338

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

Column phase: RTx-624



0084

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042413.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 24-APR-2008 13:56
Operator : ct Inst ID: msd5.i
Smp Info : 0.3mL #1612-1
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:56 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 13:56 Cal File: 5042413.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		
8.087	8.087 (1.000)	130	347911	25.0000		70.00- 130.00	100.00
8.087	8.087 (1.000)	128	272556			47.51- 107.51	78.34
8.059	8.059 (1.000)	49	681188			158.47- 218.47	195.79
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1408281	25.0000		70.00- 130.00	100.00
9.939	9.939 (1.000)	88	206198			0.00- 44.75	14.64
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1340111	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	682751			0.00- 30.00	50.95
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	428192	25.0000	24.248	70.00- 130.00	100.00
9.137	9.137 (1.130)	67	231082			0.00- 30.00	53.97
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1331352	25.0000	24.877	70.00- 130.00	100.00
12.704	12.704 (1.278)	70	124186			0.00- 30.00	9.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	895544			0.00- 30.00	67.27
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	778281	25.0000	23.918	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1052808			98.07- 158.07	135.27
16.575	16.575 (1.105)	176	738882			65.46- 125.46	94.94
12 1,3-Butadiene					CAS #: 106-99-0		
2.806	2.806 (0.347)	54	11204	0.30000	0.4294	70.00- 130.00	100.00
2.806	2.806 (0.347)	39	14982			0.00- 30.00	133.72
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	15851	0.30000	0.3951	70.00- 130.00	100.00
8.225	8.225 (1.017)	85	12242			35.57- 95.57	77.23
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	30080	0.30000	0.4258	70.00- 130.00	100.00
9.110	9.110 (0.917)	77	6703			0.00- 30.00	22.28
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	20342	0.30000	0.3622	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	7793			13.62- 73.62	38.31
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	40463	0.30000	0.3868	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	9413			0.00- 30.00	23.26
16.326	16.326 (1.088)	51	4243			0.00- 30.00	10.49
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	15219	0.30000	0.3994	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	12601			65.00- 125.00	82.80
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	34064	0.30000	0.3631	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	16125			0.00- 30.00	47.34
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	25890	0.30000	0.3289	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	14157			17.48- 77.48	54.68

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042413.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	347911	17.26
92 1,4-Difluorobenze	1234462	740677	1728247	1408281	14.08
125 Chlorobenzene-d5	1186736	712042	1661430	1340111	12.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

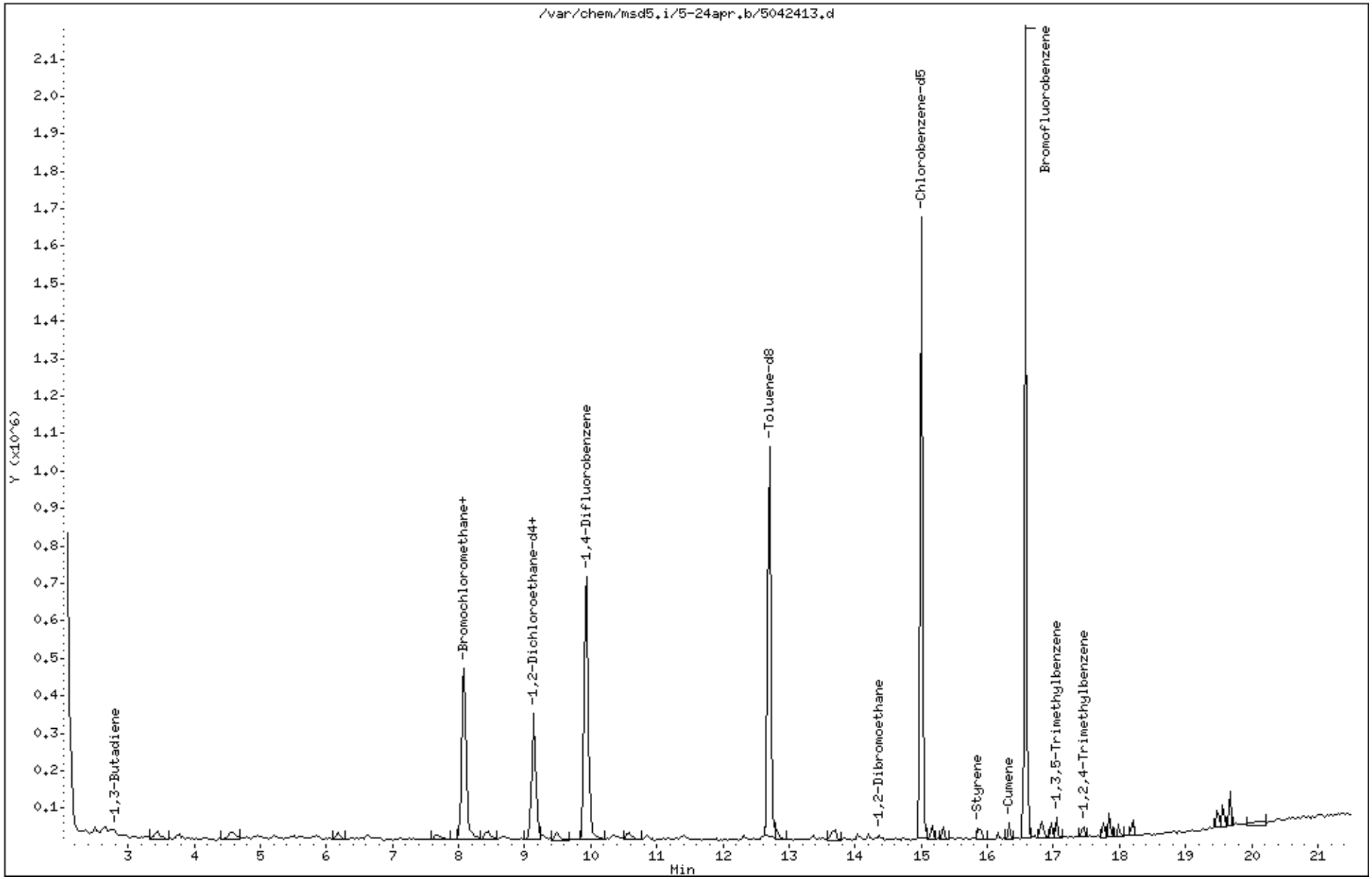
0088

Data File: /var/chem/msd5.i/5-24apr.b/5042413.d
Date : 24-APR-2008 13:56
Client ID: Level 1
Sample Info: 0.3mL #1612-1

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042414.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 24-APR-2008 14:23
Operator : ct Inst ID: msd5.i
Smp Info : 0.5mL #1612-1
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:56 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 14:23 Cal File: 5042414.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	277835	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	217706			47.51- 107.51	78.36
8.059	8.059 (1.000)	49	561450			158.47- 218.47	202.08
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1146928	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	181619			0.00- 44.75	15.84
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1152362	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	582440			0.00- 30.00	50.54
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	359092	25.0000	25.463	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	192215			0.00- 30.00	53.53
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1106484	25.0000	25.387	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	101230			0.00- 30.00	9.15

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	717757			0.00- 30.00	64.87
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	687794	25.0000	24.581	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	909715			98.07- 158.07	132.27
16.575	16.575 (1.105)	176	646289			65.46- 125.46	93.97
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	14735	0.50000	0.4268	70.00- 130.00	100.00(a)
2.308	2.308 (0.286)	87	5312			0.00- 30.00	36.05
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	11296	0.50000	0.4016	70.00- 130.00	100.00(a)
2.474	2.474 (0.307)	137	4390			2.03- 62.03	38.86
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	8509	0.50000	0.4039	70.00- 130.00	100.00(a)
2.806	2.806 (0.348)	64	2266			0.00- 30.00	26.63
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	6942	0.50000	0.3332	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	39	12011			0.00- 30.00	173.02
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	4881	0.50000	0.4145	70.00- 130.00	100.00(a)
3.276	3.276 (0.406)	96	4193			62.86- 122.86	85.90
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	4499	0.50000	0.4300	70.00- 130.00	100.00(a)
3.386	3.386 (0.420)	49	1073			0.00- 30.00	23.85
3.442	3.442 (0.427)	66	1478			0.00- 30.00	32.85
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	13071	0.50000	0.3712	70.00- 130.00	100.00(a)
3.746	3.746 (0.465)	103	9023			33.46- 93.46	69.03
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	8877	0.50000	0.4092	70.00- 130.00	100.00(a)
4.520	4.520 (0.561)	153	6357			33.20- 93.20	71.61
4.520	4.520 (0.561)	101	13515			106.78- 166.78	152.25
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	10521	0.50000	0.3776	70.00- 130.00	100.00(a)
4.575	4.575 (0.568)	96	7168			23.41- 83.41	68.13
4.575	4.575 (0.568)	98	4260			4.01- 64.01	40.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	19473	0.50000	0.4050	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	12065	0.50000	0.4771	70.00- 130.00	100.00(a)
5.460	5.460 (0.678)	84	6592			26.74- 86.74	54.64
5.460	5.460 (0.678)	51	3946			0.00- 30.00	32.71
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	8350	0.50000	0.3454	70.00- 130.00	100.00(a)
5.764	5.764 (0.715)	57	2440			0.00- 59.41	29.22
5.764	5.764 (0.715)	41	6408			0.00- 30.00	76.74
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	6861	0.50000	0.3780	70.00- 130.00	100.00(a)
5.819	5.819 (0.722)	61	11342			130.65- 190.65	165.31
5.819	5.819 (0.722)	98	4845			0.00- 30.00	70.62
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	11850	0.50000	0.3319	70.00- 130.00	100.00(a)
6.179	6.179 (0.767)	43	12060			0.00- 30.00	101.77
6.151	6.151 (0.763)	86	1332			0.00- 30.00	11.24
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	14158	0.50000	0.4228	70.00- 130.00	100.00(a)
6.621	6.621 (0.822)	65	5303			0.00- 59.62	37.46
67 2-Butanone					CAS #: 78-93-3		
7.727	7.727 (0.959)	72	2174	0.50000	0.2662	70.00- 130.00	100.00(Ta)
7.727	7.727 (0.959)	43	13273			533.62- 593.62	610.53
0.000	1.000 (0.000)	57	0			0.00- 30.00	0.00
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	8727	0.50000	0.3611	70.00- 130.00	100.00(a)
7.644	7.644 (0.949)	96	8736			42.00- 102.00	100.10
7.617	7.617 (0.945)	98	4499			15.56- 75.56	51.55
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	17350	0.50000	0.5576	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	3685			0.00- 56.55	21.24
8.059	8.059 (1.000)	72	5090			0.00- 30.00	29.34
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	13528	0.50000	0.4222	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	8999			35.57- 95.57	66.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
8.446	8.446 (1.048)	97	14401	0.50000	0.4840	70.00- 130.00	100.00(a)
8.446	8.446 (1.048)	99	8817			34.21- 94.21	61.22
74 Cyclohexane						CAS #: 110-82-7	
8.419	8.419 (1.045)	84	8902	0.50000	0.3769	70.00- 130.00	100.00(a)
8.419	8.419 (1.045)	56	13184			117.94- 177.94	148.10
8.391	8.391 (1.041)	41	12303			54.92- 114.92	138.20
77 Carbon Tetrachloride						CAS #: 56-23-5	
8.667	8.667 (1.075)	119	11538	0.50000	0.4332	70.00- 130.00	100.00(a)
8.667	8.667 (1.075)	117	10755			74.41- 134.41	93.21
80 2,2,4-Trimethylpentane						CAS #: 540-84-1	
9.082	9.082 (1.127)	57	40278	0.50000	0.3910	70.00- 130.00	100.00(a)
9.082	9.082 (1.127)	56	14695			0.00- 30.00	36.48
9.082	9.082 (1.127)	41	10179			0.00- 30.00	25.27
81 Benzene						CAS #: 71-43-2	
9.110	9.110 (0.919)	78	21434	0.50000	0.3726	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	4787			0.00- 30.00	22.33
85 1,2-Dichloroethane						CAS #: 107-06-2	
9.276	9.276 (0.936)	62	8494	0.50000	0.4103	70.00- 130.00	100.00(a)
9.276	9.276 (0.936)	64	3903			0.00- 30.00	45.95
90 Heptane						CAS #: 142-82-5	
9.497	9.497 (0.958)	100	2357	0.50000	0.3749	70.00- 130.00	100.00(a)
9.497	9.497 (0.958)	43	18119			0.00- 30.00	768.73
9.497	9.497 (0.958)	71	6780			0.00- 30.00	287.65
93 Trichloroethene						CAS #: 79-01-6	
10.326	10.326 (1.042)	95	9680	0.50000	0.4538	70.00- 130.00	100.00(a)
10.354	10.354 (1.045)	130	11025			70.08- 130.08	113.89
10.326	10.326 (1.042)	97	6050			35.30- 95.30	62.50
98 1,2-Dichloropropane						CAS #: 78-87-5	
10.852	10.852 (1.095)	63	7639	0.50000	0.4017	70.00- 130.00	100.00(a)
10.852	10.852 (1.095)	62	5930			41.10- 101.10	77.63
10.852	10.852 (1.095)	41	8538			36.18- 96.18	111.77
100 Bromodichloromethane						CAS #: 75-27-4	
11.405	11.405 (1.151)	83	10115	0.50000	0.3633	70.00- 130.00	100.00(a)
11.405	11.405 (1.151)	85	6880			34.05- 94.05	68.02
103 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.317	12.317 (1.243)	75	8191	0.50000	0.3760	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	3322			1.82- 61.82	40.56
12.289	12.289 (1.240)	39	8231			36.40- 96.40	100.49
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	5061	0.50000	0.3316	70.00- 130.00	100.00(a)
12.621	12.621 (1.273)	43	14619			0.00- 30.00	288.86
12.621	12.621 (1.273)	85	1358			0.00- 30.00	26.83
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	21927	0.50000	0.3919	70.00- 130.00	100.00(a)
12.815	12.815 (1.293)	92	12865			27.75- 87.75	58.67
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	8260	0.50000	0.3721	70.00- 130.00	100.00(a)
13.368	13.368 (0.891)	77	2948			2.38- 62.38	35.69
13.368	13.368 (0.891)	39	6149			35.96- 95.96	74.44
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	8022	0.50000	0.4094	70.00- 130.00	100.00(a)
13.644	13.644 (0.910)	99	5555			33.83- 93.83	69.25
13.644	13.644 (0.910)	83	6649			52.70- 112.70	82.88
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	9112	0.50000	0.3581	70.00- 130.00	100.00(a)
13.700	13.700 (0.913)	129	8860			44.73- 104.73	97.23
13.700	13.700 (0.913)	131	7599			40.60- 100.60	83.40
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	10259	0.50000	0.3545	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	8062			0.00- 30.00	78.58
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	11007	0.50000	0.3360	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	12260			65.00- 125.00	111.38
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	18068	0.50000	0.3874	70.00- 130.00	100.00(a)
15.027	15.027 (1.002)	114	6582			2.42- 62.42	36.43
14.999	14.999 (1.000)	77	19212			27.34- 87.34	106.33
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	9147	0.50000	0.3546	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	91	27710			0.00- 30.00	302.94
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	10853	0.50000	0.3384	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	23146			0.00- 30.00	213.27
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	11097	0.50000	0.3701	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	23614			170.15- 230.15	212.80
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	15639	0.50000	0.3238	70.00- 130.00	100.00(a)
15.912	15.912 (1.061)	78	7243			13.62- 73.62	46.31
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	10897	0.50000	0.3927	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	4351			22.36- 82.36	39.93
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	18353	0.50000	0.4155	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	10987			36.19- 96.19	59.86
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	32076	0.50000	0.3538	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	120	10605			0.17- 60.17	33.06
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	29239	0.50000	0.3624	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	13512			0.00- 30.00	46.21
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	22603	0.50000	0.3339	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	11788			17.48- 77.48	52.15
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	19372	0.50000	0.4121	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	11946			0.00- 30.00	61.67
17.764	17.764 (1.184)	111	7757			0.00- 30.00	40.04
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	23101	0.50000	0.3902	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	16561			0.00- 30.00	71.69
17.847	17.847 (1.190)	111	8938			0.00- 30.00	38.69
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	18714	0.50000	0.2810	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	4078			0.00- 30.00	21.79
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	19514	0.50000	0.4047	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	13947			32.26- 92.26	71.47
18.206	18.206 (1.214)	111	8507			7.92- 67.92	43.59
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	39747	0.50000	0.3972	70.00- 130.00	100.00(a)
16.824	16.824 (1.122)	120	8834			0.00- 30.00	22.23
16.824	16.824 (1.122)	105	1916			0.00- 30.00	4.82
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	32526	0.50000	0.3616	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	8088			0.00- 30.00	24.87
16.326	16.326 (1.088)	51	4145			0.00- 30.00	12.74
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	13193	0.50000	0.4195	70.00- 130.00	100.00(a)
10.575	10.575 (1.067)	98	7591			0.00- 30.00	57.54
10.548	10.548 (1.064)	55	15298			0.00- 30.00	115.96

QC Flag Legend

T - Target compound detected outside RT window.
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: 5042414.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	277835	-6.36
92 1,4-Difluorobenze	1234462	740677	1728247	1146928	-7.09
125 Chlorobenzene-d5	1186736	712042	1661430	1152362	-2.90

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

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

Data File: /var/chem/msd5.i/5-24apr.b/5042414.d

Date : 24-APR-2008 14:23

Client ID: Level 2

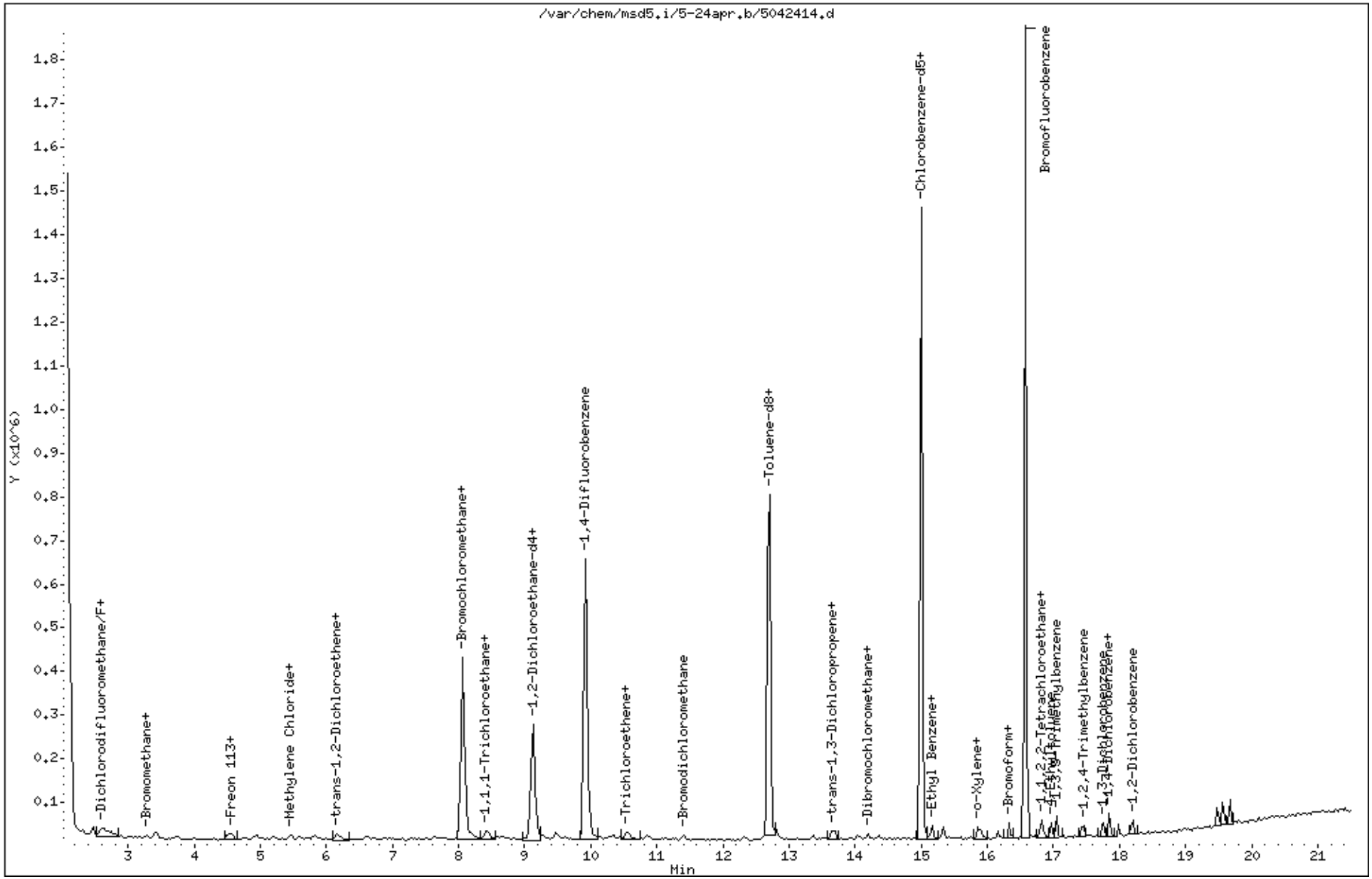
Sample Info: 0.5mL #1612-1

Column phase: RTx-624

Instrument: msd5.i

Operator: ct

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15may.b/5051505.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 3
Inj Date : 15-MAY-2008 10:24
Operator : kr Inst ID: msd5.i
Smp Info : 2.0mL #1612-16
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-15may.b/t14q424b.m
Meth Date : 15-May-2008 11:16 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 10:24 Cal File: 5051505.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Sp2b.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	243869	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	190516			45.31- 105.31		78.12
8.059	8.059 (1.000)	49	374956			122.97- 182.97		153.75
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.939	9.939 (1.000)	114	845978	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	122034			0.00- 43.76		14.43
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	748632	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	345261			0.00- 30.00		46.12
89 Octane					CAS #: 111-65-9			
9.469	9.469 (0.953)	57	17757	2.00000	1.523	70.00- 130.00		100.00(T)
0.000	1.000 (0.000)	85	0			0.00- 30.00		0.00
9.497	9.497 (0.955)	43	38990			0.00- 30.00		219.58
127 Nonane					CAS #: 111-84-2			
15.331	15.331 (1.022)	43	42931	2.00000	1.472	70.00- 130.00		100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
127 Nonane (continued)							
15.331	15.331 (1.022)	57	32391			0.00- 30.00	75.45
15.331	15.331 (1.022)	85	12055			0.00- 30.00	28.08

QC Flag Legend

T - Target compound detected outside RT window.
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: 5051505.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-15may.b/t14q424b.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 15-MAY-2008
Calibration Time: 10:52
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	236067	141640	330494	243869	3.30
92 1,4-Difluorobenze	850141	510085	1190197	845978	-0.49
125 Chlorobenzene-d5	766920	460152	1073688	748632	-2.38

		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	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

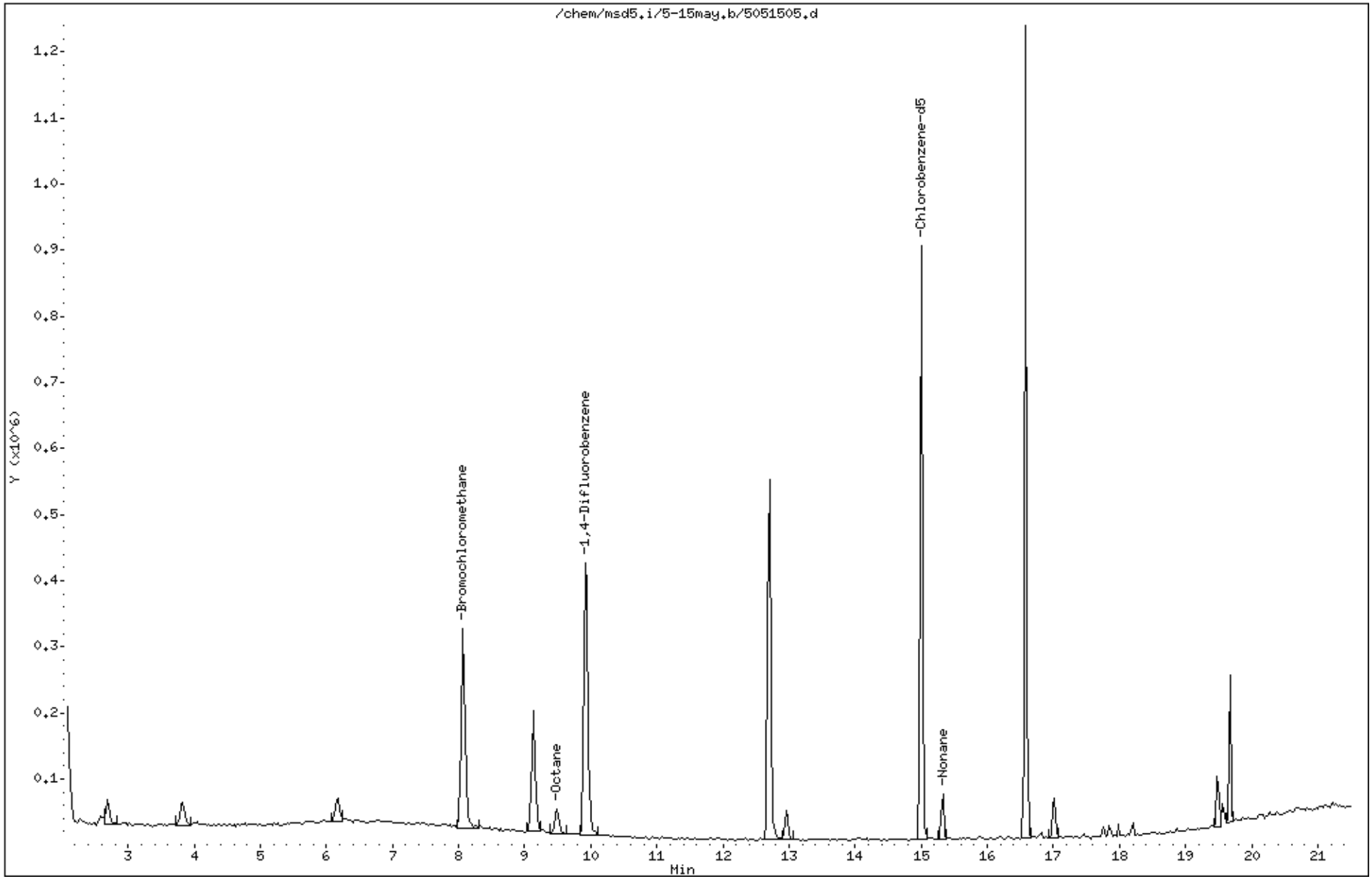
0101

Data File: /chem/msd5.i/5-15may.b/5051505.d
Date : 15-MAY-2008 10:24
Client ID: Level 3
Sample Info: 2.0mL #1612-16

Column phase: RTx-624

Instrument: msd5.i

Operator: kr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042421.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 24-APR-2008 18:31
Operator : kr Inst ID: msd5.i
Smp Info : 2.0mL #1612-1
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 18:31 Cal File: 5042421.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				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	316701	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	241810			47.51- 107.51	76.35
8.059	8.059 (1.000)	49	585510			158.47- 218.47	184.88
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1264461	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	187922			0.00- 44.75	14.86
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1173690	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	576977			0.00- 30.00	49.16
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	359025	25.0000	22.334	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	206220			0.00- 30.00	57.44
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1154854	25.0000	24.034	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	100616			0.00- 30.00	8.71

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	760885			0.00- 30.00	65.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	695467	25.0000	24.403	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	911131			98.07- 158.07	131.01
16.575	16.575 (1.105)	176	672459			65.46- 125.46	96.69
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	39296	2.00000	1.599	70.00- 130.00	100.00(a)
2.253	2.253 (0.280)	42	32979			0.00- 30.00	83.92
2.280	2.280 (0.283)	39	29125			0.00- 30.00	74.12
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	67545	2.00000	1.716	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	21517			0.00- 30.00	31.86
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	52666	2.00000	1.643	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	16221			2.03- 62.03	30.80
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	50579	2.00000	1.710	70.00- 130.00	100.00(a)
2.584	2.584 (0.321)	52	16560			0.00- 30.00	32.74
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	36964	2.00000	1.539	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	13783			0.00- 30.00	37.29
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	36120	2.00000	1.521	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	44008			0.00- 30.00	121.84
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	19166	2.00000	1.428	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	21026			62.86- 122.86	109.70
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	17790	2.00000	1.492	70.00- 130.00	100.00
3.469	3.469 (0.430)	49	6005			0.00- 30.00	33.75
3.442	3.442 (0.427)	66	4509			0.00- 30.00	25.35
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	66917	2.00000	1.667	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	43085			33.46- 93.46	64.39

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	13439	2.00000	1.417	70.00- 130.00	100.00(a)
4.160	4.160 (0.516)	43	6438			0.00- 30.00	47.91
4.133	4.133 (0.513)	46	7798			0.00- 30.00	58.03
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	41947	2.00000	1.696	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	27443			33.20- 93.20	65.42
4.520	4.520 (0.561)	101	52727			106.78- 166.78	125.70
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	49517	2.00000	1.559	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	28440			23.41- 83.41	57.43
4.603	4.603 (0.571)	98	18088			4.01- 64.01	36.53
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	20063	2.00000	1.649	70.00- 130.00	100.00(a)
4.741	4.741 (0.588)	43	52742			0.00- 30.00	262.88
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	62149	2.00000	1.352	70.00- 130.00	100.00(a)
4.962	4.962 (0.616)	43	21178			0.00- 30.00	34.08
4.962	4.962 (0.616)	59	2534			0.00- 30.00	4.08
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	85989	2.00000	1.569	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	10331	2.00000	1.096	70.00- 130.00	100.00(a)
5.183	5.183 (0.643)	41	49775			0.00- 30.00	481.80
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	44857	2.00000	1.556	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	23987			26.74- 86.74	53.47
5.460	5.460 (0.677)	51	16130			0.00- 30.00	35.96
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	29004	2.00000	1.052	70.00- 130.00	100.00
5.792	5.792 (0.719)	57	10028			0.00- 59.41	34.57
5.764	5.764 (0.715)	41	8664			0.00- 30.00	29.87
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	34007	2.00000	1.644	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	49974			130.65- 190.65	146.95
5.819	5.819 (0.722)	98	21792			0.00- 30.00	64.08

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	61884	2.00000	1.521	70.00- 130.00	100.00
6.179	6.179 (0.767)	43	51813			0.00- 30.00	83.73
6.179	6.179 (0.767)	86	10440			0.00- 30.00	16.87
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	58378	2.00000	1.530	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	18441			0.00- 59.62	31.59
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.955)	72	14308	2.00000	1.537	70.00- 130.00	100.00
7.700	7.700 (0.955)	43	69454			533.62- 593.62	485.42
7.700	7.700 (0.955)	57	4538			0.00- 30.00	31.72
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	44658	2.00000	1.621	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	29532			42.00- 102.00	66.13
7.644	7.644 (0.949)	98	21238			15.56- 75.56	47.56
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	51913	2.00000	1.464	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	15340			0.00- 56.55	29.55
8.059	8.059 (1.000)	72	19201			0.00- 30.00	36.99
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	50543	2.00000	1.384	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	33956			35.57- 95.57	67.18
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	48233	2.00000	1.422	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	30235			34.21- 94.21	62.69
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	37550	2.00000	1.395	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	60462			117.94- 177.94	161.02
8.418	8.418 (1.045)	41	38853			54.92- 114.92	103.47
56 Vinyl Acetate					CAS #: 108-05-4		
6.704	6.704 (0.832)	86	5481	2.00000	1.039	70.00- 130.00	100.00(a)
6.677	6.677 (0.828)	43	81210			0.00- 30.00	1481.66
6.704	6.704 (0.832)	42	6947			0.00- 30.00	126.75
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	41335	2.00000	1.362	70.00- 130.00	100.00
8.695	8.695 (1.079)	117	44195			74.41- 134.41	106.92

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	166198	2.00000	1.415	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	54553			0.00- 30.00	32.82
9.082	9.082 (1.127)	41	44648			0.00- 30.00	26.86
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	90369	2.00000	1.425	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	24694			0.00- 30.00	27.33
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	36236	2.00000	1.588	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	12544			0.00- 30.00	34.62
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	11233	2.00000	1.620	70.00- 130.00	100.00
9.497	9.497 (0.958)	43	75190			0.00- 30.00	669.37
9.497	9.497 (0.958)	71	33986			0.00- 30.00	302.55
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	36554	2.00000	1.554	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	35474			70.08- 130.08	97.05
10.326	10.326 (1.042)	97	22227			35.30- 95.30	60.81
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	31198	2.00000	1.488	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	23924			41.10- 101.10	76.68
10.852	10.852 (1.095)	41	28196			35.89- 95.89	90.38
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	19966	2.00000	1.436	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	58	16158			47.45- 107.45	80.93
11.073	11.073 (1.117)	57	5847			0.00- 30.00	29.28
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	44361	2.00000	1.445	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	28053			34.05- 94.05	63.24
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	33939	2.00000	1.413	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	12853			1.82- 61.82	37.87
12.317	12.317 (1.243)	39	25221			36.40- 96.40	74.31
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	22364	2.00000	1.329	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	80802			0.00- 30.00	361.30
12.621	12.621 (1.273)	85	9589			0.00- 30.00	42.88

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	99179	2.00000	1.608	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	55204			27.75- 87.75	55.66
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	31301	2.00000	1.384	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	10410			2.38- 62.38	33.26
13.368	13.368 (0.891)	39	23737			35.96- 95.96	75.83
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	28297	2.00000	1.418	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	21084			33.83- 93.83	74.51
13.644	13.644 (0.910)	83	29005			52.70- 112.70	102.50
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	43912	2.00000	1.694	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	32984			44.73- 104.73	75.11
13.699	13.699 (0.913)	131	31741			40.60- 100.60	72.28
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	32083	2.00000	1.342	70.00- 130.00	100.00(a)
14.031	14.031 (0.935)	43	68432			181.71- 241.71	213.30
14.031	14.031 (0.935)	100	5813			0.00- 30.00	18.12
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	43643	2.00000	1.481	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	34730			0.00- 30.00	79.58
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	48320	2.00000	1.448	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	45975			65.00- 125.00	95.15
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	76213	2.00000	1.604	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	27179			2.42- 62.42	35.66
15.027	15.027 (1.002)	77	52925			27.34- 87.34	69.44
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	41019	2.00000	1.561	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	123814			0.00- 30.00	301.85
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	50927	2.00000	1.559	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	93398			0.00- 30.00	183.40
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	45202	2.00000	1.480	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	88326			170.15- 230.15	195.40
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	65990	2.00000	1.341	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	28916			13.62- 73.62	43.82
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	35972	2.00000	1.273	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	19320			22.36- 82.36	53.71
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	75038	2.00000	1.668	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	46417			36.19- 96.19	61.86
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	144641	2.00000	1.566	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	46697			0.17- 60.17	32.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	126322	2.00000	1.537	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	62212			0.00- 30.00	49.25
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	103045	2.00000	1.494	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	53182			17.48- 77.48	51.61
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	81828	2.00000	1.709	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	58561			0.00- 30.00	71.57
17.764	17.764 (1.184)	111	35547			0.00- 30.00	43.44
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	102298	2.00000	1.697	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	63549			0.00- 30.00	62.12
17.847	17.847 (1.190)	111	41468			0.00- 30.00	40.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	98612	2.00000	1.454	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	19904			0.00- 30.00	20.18
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	95994	2.00000	1.955	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	60744			32.26- 92.26	63.28
18.206	18.206 (1.214)	111	33700			7.92- 67.92	35.11

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	80352	2.00000	2.225	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	76117			63.09- 123.09	94.73
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	48303	2.00000	1.982	70.00- 130.00	100.00(a)
19.589	19.589 (1.306)	223	29341			32.88- 92.88	60.74
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	165697	2.00000	1.626	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	39713			0.00- 30.00	23.97
16.824	16.824 (1.122)	105	6884			0.00- 30.00	4.15
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	141711	2.00000	1.547	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	37390			0.00- 30.00	26.38
16.326	16.326 (1.088)	51	16354			0.00- 30.00	11.54
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	257783	2.00000	2.228	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	32076			0.00- 30.00	12.44
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	47998	2.00000	2.039	70.00- 130.00	100.00
5.598	5.598 (0.695)	41	15347			0.00- 30.00	31.97
5.598	5.598 (0.695)	57	4957			0.00- 30.00	10.33
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	11837	2.00000	1.851	70.00- 130.00	100.00(a)
2.695	2.695 (0.334)	43	84412			0.00- 30.00	713.12
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	61460	2.00000	1.550	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	57	35263			0.00- 30.00	57.38
3.414	3.414 (0.424)	72	4953			0.00- 30.00	8.06
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	51649	2.00000	1.490	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	23708			0.00- 30.00	45.90
10.547	10.547 (1.064)	55	46015			0.00- 30.00	89.09

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Report Date: 25-Apr-2008 09:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042421.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	316701	6.74
92 1,4-Difluorobenze	1234462	740677	1728247	1264461	2.43
125 Chlorobenzene-d5	1186736	712042	1661430	1173690	-1.10

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

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

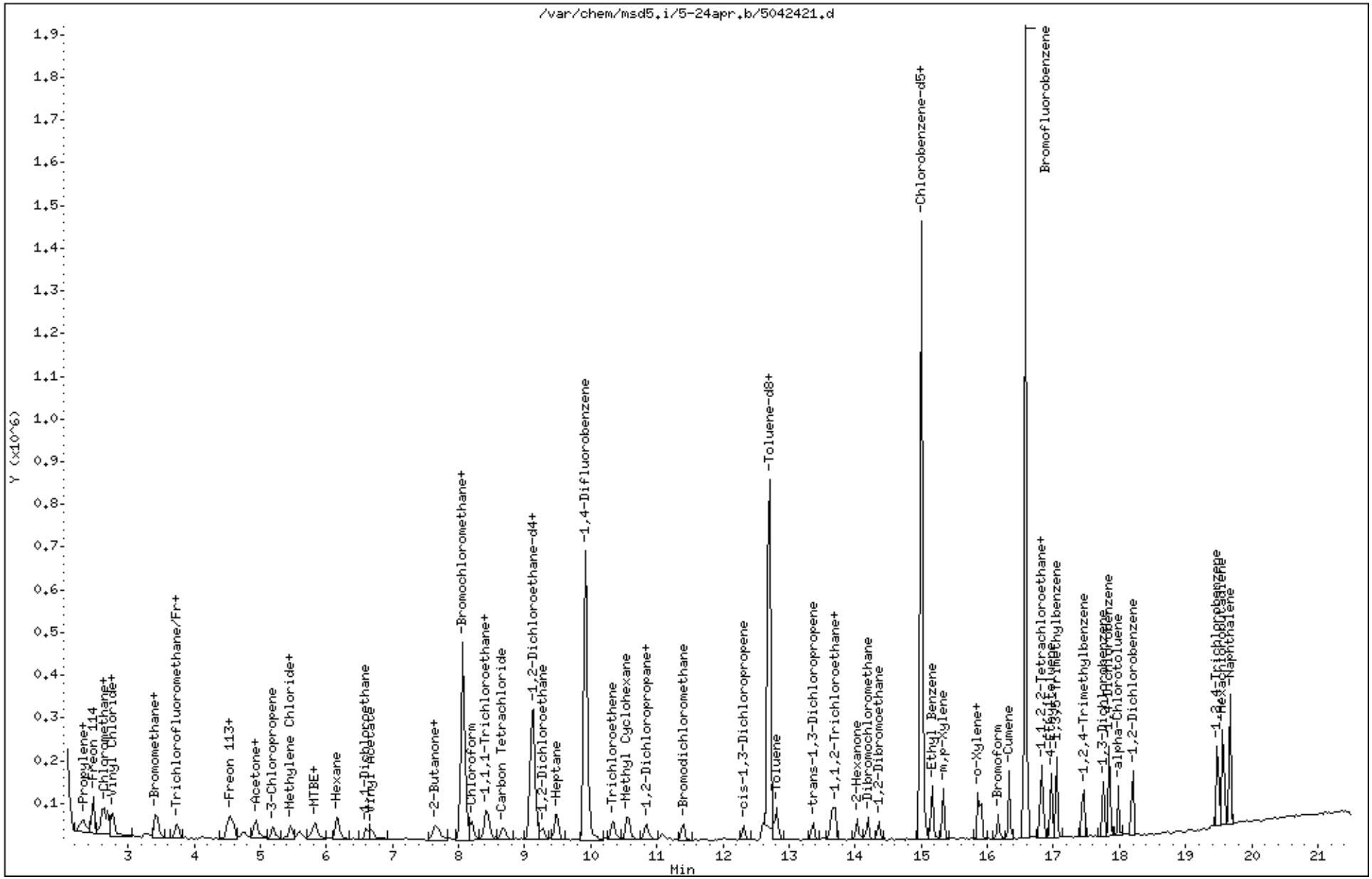
Data File: /var/chem/msd5.i/5-24apr.b/5042421.d
Date : 24-APR-2008 18:31
Client ID: Level 3
Sample Info: 2.0mL #1612-1

Instrument: msd5.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53

0111



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042416.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 24-APR-2008 15:19
Operator : ct Inst ID: msd5.i
Smp Info : 25mL #1612-1
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 15:19 Cal File: 5042416.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				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	285626	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	224398			47.51- 107.51		78.56
8.059	8.059 (1.000)	49	550973			158.47- 218.47		192.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1185571	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	183959			0.00- 44.75		15.52
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1185917	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	582491			0.00- 30.00		49.12
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.110	9.110 (1.130)	65	364263	25.0000	25.125	70.00- 130.00		100.00
9.110	9.110 (1.130)	67	206074			0.00- 30.00		56.57
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1139064	25.0000	25.283	70.00- 130.00		100.00
12.676	12.676 (1.279)	70	104653			0.00- 30.00		9.19

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	787127			0.00- 30.00	69.10
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	729616	25.0000	25.338	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	910513			98.07- 158.07	124.79
16.575	16.575 (1.105)	176	687841			65.46- 125.46	94.27
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	647416	25.0000	29.214	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	412965			0.00- 30.00	63.79
2.253	2.253 (0.280)	39	444951			0.00- 30.00	68.73
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1033842	25.0000	29.127	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	332090			0.00- 30.00	32.12
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	874089	25.0000	30.230	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	281841			2.03- 62.03	32.24
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	762365	25.0000	28.580	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	230237			0.00- 30.00	30.20
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	655638	25.0000	30.274	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	185335			0.00- 30.00	28.27
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	580573	25.0000	27.102	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	747482			0.00- 30.00	128.75
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	335231	25.0000	27.690	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	319842			62.86- 122.86	95.41
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	325147	25.0000	30.232	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	105404			0.00- 30.00	32.42
3.386	3.386 (0.420)	66	100339			0.00- 30.00	30.86
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1069374	25.0000	29.539	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	693269			33.46- 93.46	64.83

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	247838	25.0000	28.977	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	51483			0.00- 30.00	20.77
4.077	4.077 (0.506)	46	101468			0.00- 30.00	40.94
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	651257	25.0000	29.198	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	413396			33.20- 93.20	63.48
4.520	4.520 (0.561)	101	875164			106.78- 166.78	134.38
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	847811	25.0000	29.596	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	453547			23.41- 83.41	53.50
4.575	4.575 (0.568)	98	290271			4.01- 64.01	34.24
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	292961	25.0000	26.700	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	993979			0.00- 30.00	339.29
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1107755	25.0000	26.726	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	277149			0.00- 30.00	25.02
4.935	4.935 (0.612)	59	35085			0.00- 30.00	3.17
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1442925	25.0000	29.189	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	247385	25.0000	29.092	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	977529			0.00- 30.00	395.14
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	752023	25.0000	28.930	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	408684			26.74- 86.74	54.34
5.432	5.432 (0.674)	51	219939			0.00- 30.00	29.25
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	793580	25.0000	31.932	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	227132			0.00- 59.41	28.62
5.764	5.764 (0.715)	41	276010			0.00- 30.00	34.78
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	554656	25.0000	29.726	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	881505			130.65- 190.65	158.93
5.819	5.819 (0.722)	98	333865			0.00- 30.00	60.19

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	1115512	25.0000	30.393	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	821438			0.00- 30.00	73.64
6.151	6.151 (0.763)	86	162908			0.00- 30.00	14.60
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	997284	25.0000	28.972	70.00- 130.00	100.00
6.593	6.593 (0.818)	65	302386			0.00- 59.62	30.32
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	257425	25.0000	30.657	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1413867			533.62- 593.62	549.23
7.672	7.672 (0.952)	57	95815			0.00- 30.00	37.22
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	742044	25.0000	29.864	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	534183			42.00- 102.00	71.99
7.617	7.617 (0.945)	98	342055			15.56- 75.56	46.10
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	881634	25.0000	27.560	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	233108			0.00- 56.55	26.44
8.031	8.031 (0.997)	72	256200			0.00- 30.00	29.06
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	919508	25.0000	27.917	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	608465			35.57- 95.57	66.17
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	872562	25.0000	28.529	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	569362			34.21- 94.21	65.25
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	732869	25.0000	30.184	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1109565			117.94- 177.94	151.40
8.418	8.418 (1.045)	41	648732			54.92- 114.92	88.52
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	135969	25.0000	28.578	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1800501			0.00- 30.00	1324.20
6.649	6.649 (0.825)	42	135618			0.00- 30.00	99.74
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	809752	25.0000	29.574	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	829941			74.41- 134.41	102.49

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	3199191	25.0000	30.210	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	1048397			0.00- 30.00	32.77
9.082	9.082 (1.127)	41	879607			0.00- 30.00	27.49
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1662202	25.0000	27.953	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	401144			0.00- 30.00	24.13
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	639172	25.0000	29.870	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	191516			0.00- 30.00	29.96
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	191246	25.0000	29.426	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1358301			0.00- 30.00	710.24
9.469	9.469 (0.955)	71	583422			0.00- 30.00	305.06
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	645994	25.0000	29.299	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	649464			70.08- 130.08	100.54
10.326	10.326 (1.042)	97	423720			35.30- 95.30	65.59
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	590497	25.0000	30.043	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	421585			41.10- 101.10	71.39
10.824	10.824 (1.092)	41	393185			36.18- 96.18	66.59
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	365623	25.0000	28.052	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	287443			47.45- 107.45	78.62
11.073	11.073 (1.117)	57	91573			0.00- 30.00	25.05
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	888862	25.0000	30.888	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	564475			34.05- 94.05	63.51
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	659162	25.0000	29.274	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	212260			1.82- 61.82	32.20
12.289	12.289 (1.240)	39	448572			36.40- 96.40	68.05
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	488354	25.0000	30.956	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	1389181			0.00- 30.00	284.46
12.593	12.593 (1.271)	85	172642			0.00- 30.00	35.35

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	1742127	25.0000	30.119	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	999300			27.75- 87.75	57.36
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	650332	25.0000	28.465	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	205311			2.38- 62.38	31.57
13.340	13.340 (0.889)	39	436230			35.96- 95.96	67.08
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	607671	25.0000	30.133	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	378908			33.83- 93.83	62.35
13.644	13.644 (0.910)	83	500596			52.70- 112.70	82.38
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	766059	25.0000	29.258	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	558167			44.73- 104.73	72.86
13.699	13.699 (0.913)	131	540031			40.60- 100.60	70.49
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	636158	25.0000	26.333	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1417316			181.71- 241.71	222.79
14.031	14.031 (0.935)	100	119132			0.00- 30.00	18.73
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	878389	25.0000	29.493	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	679236			0.00- 30.00	77.33
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	944591	25.0000	28.016	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	879006			65.00- 125.00	93.06
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1422341	25.0000	29.635	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	445186			2.42- 62.42	31.30
15.027	15.027 (1.002)	77	789587			27.34- 87.34	55.51
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	783761	25.0000	29.528	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	2367524			0.00- 30.00	302.07
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	988735	25.0000	29.959	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1878162			0.00- 30.00	189.96
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	924678	25.0000	29.969	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	1831701			170.15- 230.15	198.09
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1446050	25.0000	29.092	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	632988			13.62- 73.62	43.77
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	820728	25.0000	28.738	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	418753			22.36- 82.36	51.02
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1305949	25.0000	28.727	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	864420			36.19- 96.19	66.19
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2813209	25.0000	30.154	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	861180			0.17- 60.17	30.61
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2470967	25.0000	29.764	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1227367			0.00- 30.00	49.67
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2006394	25.0000	28.800	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	980532			17.48- 77.48	48.87
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1342680	25.0000	27.756	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	859949			0.00- 30.00	64.05
17.764	17.764 (1.184)	111	516783			0.00- 30.00	38.49
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1697632	25.0000	27.867	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	1078748			0.00- 30.00	63.54
17.847	17.847 (1.190)	111	651277			0.00- 30.00	38.36
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2014324	25.0000	29.388	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	436309			0.00- 30.00	21.66
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1336842	25.0000	26.942	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	846017			32.26- 92.26	63.28
18.206	18.206 (1.214)	111	523291			7.92- 67.92	39.14

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	837828	25.0000	22.958	70.00- 130.00	100.00
19.478	19.478 (1.299)	182	785143			63.09- 123.09	93.71
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	617318	25.0000	25.072	70.00- 130.00	100.00
19.561	19.561 (1.304)	223	369052			32.88- 92.88	59.78
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3055307	25.0000	29.668	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	724624			0.00- 30.00	23.72
16.824	16.824 (1.122)	105	115597			0.00- 30.00	3.78
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2707385	25.0000	29.244	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	746735			0.00- 30.00	27.58
16.326	16.326 (1.088)	51	297960			0.00- 30.00	11.01
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2970069	25.0000	25.406	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	377742			0.00- 30.00	12.72
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	670072	25.0000	31.561	70.00- 130.00	100.00
5.570	5.570 (0.691)	41	202733			0.00- 30.00	30.26
5.570	5.570 (0.691)	57	66598			0.00- 30.00	9.94
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	160873	25.0000	27.888	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1344888			0.00- 30.00	835.99
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1002829	25.0000	28.051	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	578489			0.00- 30.00	57.69
3.414	3.414 (0.424)	72	50818			0.00- 30.00	5.07
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	970622	25.0000	29.857	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	473924			0.00- 30.00	48.83
10.547	10.547 (1.064)	55	923547			0.00- 30.00	95.15

Report Date: 25-Apr-2008 09:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042416.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	285626	-3.73
92 1,4-Difluorobenze	1234462	740677	1728247	1185571	-3.96
125 Chlorobenzene-d5	1186736	712042	1661430	1185917	-0.07

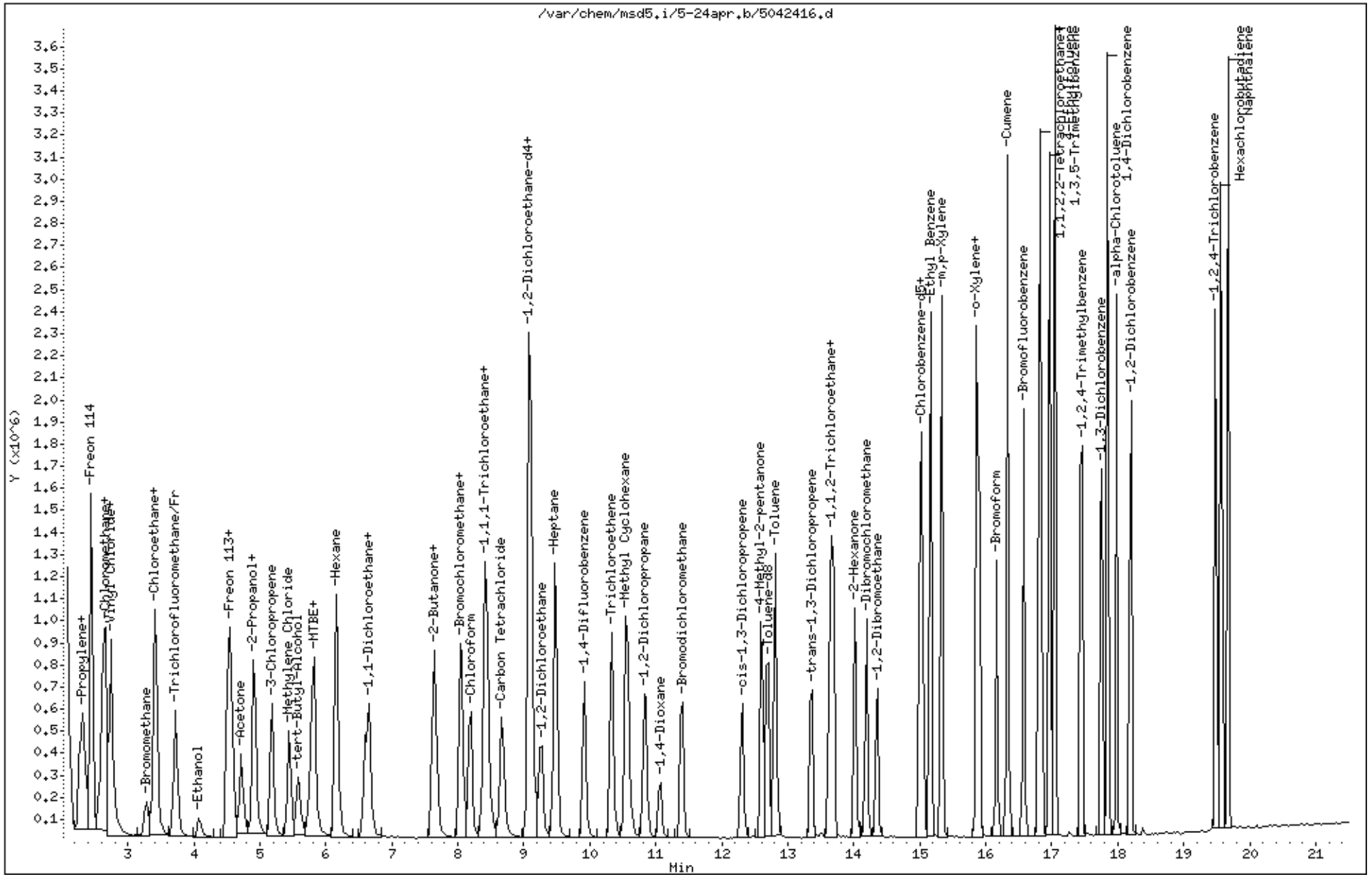
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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.

Data File: /var/chem/msd5.i/5-24apr.b/5042416.d
Date : 24-APR-2008 15:19
Client ID: Level 4
Sample Info: 25mL #1612-1

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

Column phase: RTx-624



0121

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15may.b/5051506.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 5
Inj Date : 15-MAY-2008 10:52
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1612-16
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-15may.b/t14q424b.m
Meth Date : 15-May-2008 11:16 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 10:52 Cal File: 5051506.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Sp2b.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	236067	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	177776			45.31- 105.31	75.31
8.059	8.059 (1.000)	49	361122			122.97- 182.97	152.97
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	850141	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	116991			0.00- 43.76	13.76
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	766920	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	351484			0.00- 30.00	45.83
89 Octane					CAS #: 111-65-9		
9.497	9.469 (0.958)	57	725553	50.0000	50.000	70.00- 130.00	100.00
9.497	1.000 (0.958)	85	35033			0.00- 30.00	4.83
9.469	9.497 (0.955)	43	1575343			0.00- 30.00	217.12
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	1888270	50.0000	50.000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
127 Nonane (continued)							
15.331	15.331 (1.022)	57	1402662			0.00- 30.00	74.28
15.331	15.331 (1.022)	85	500709			0.00- 30.00	26.52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5051506.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-15may.b/t14q424b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 15-MAY-2008
Calibration Time: 10:52
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	236067	141640	330494	236067	0.00
92 1,4-Difluorobenze	850141	510085	1190197	850141	0.00
125 Chlorobenzene-d5	766920	460152	1073688	766920	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/5-15may.b/5051506.d

Date : 15-MAY-2008 10:52

Client ID: Level 5

Sample Info: 50mL #1612-16

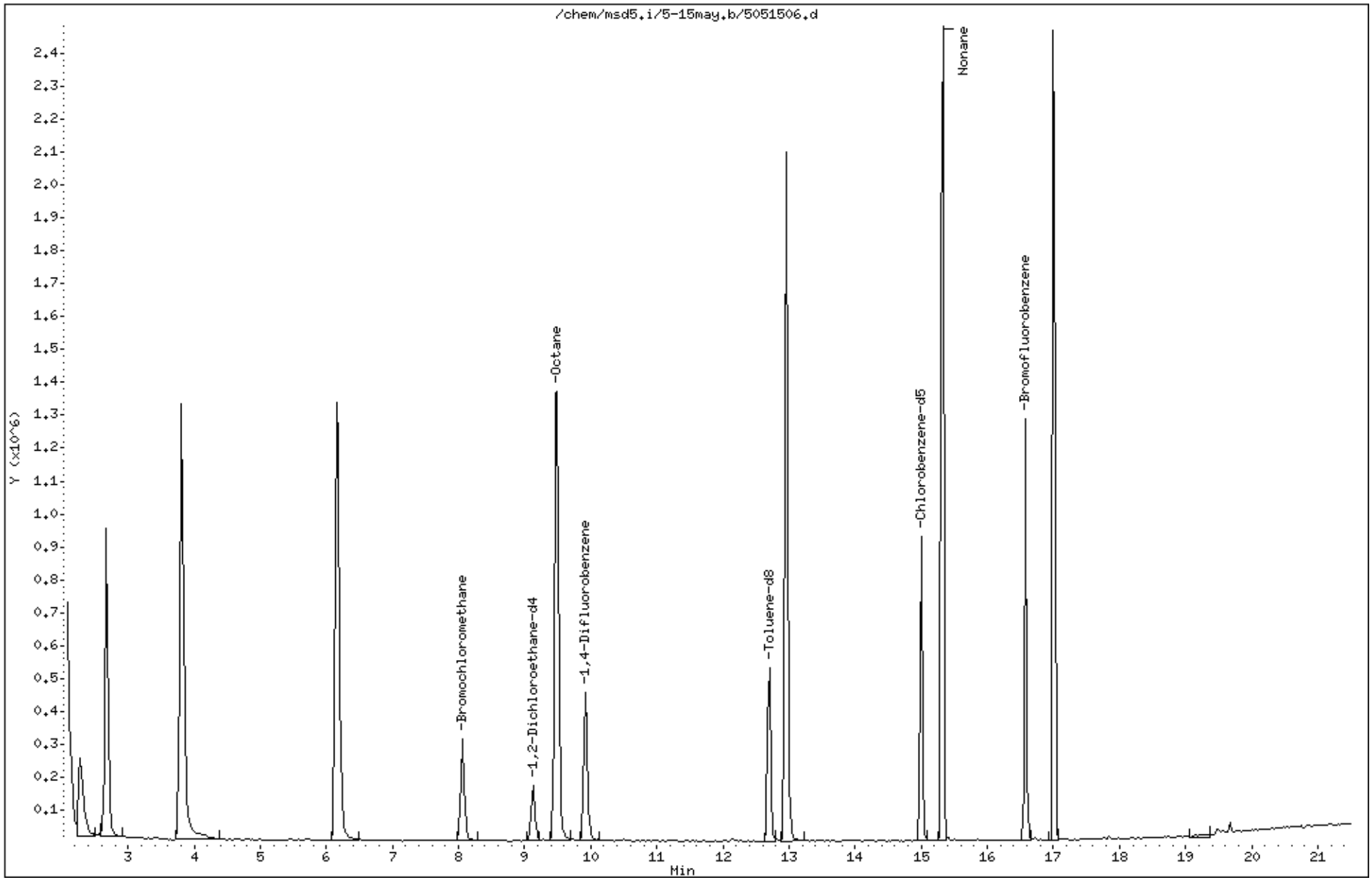
Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53

0125



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042417.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 24-APR-2008 15:47
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1612-1
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 15:47 Cal File: 5042417.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	296697	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	229958			47.51- 107.51		77.51
8.059	8.059 (1.000)	49	559185			158.47- 218.47		188.47
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1234462	25.0000		80.00- 120.00		100.00
9.912	9.912 (1.000)	88	182091			0.00- 44.75		14.75
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1186736	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	600713			20.62- 80.62		50.62
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	381239	25.0000	25.315	80.00- 120.00		100.00
9.110	9.110 (1.130)	67	231370			30.69- 90.69		60.69
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1200024	25.0000	25.581	80.00- 120.00		100.00
12.677	12.677 (1.279)	70	112385			0.00- 39.37		9.37

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	805326			37.11- 97.11	67.11
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	729157	25.0000	25.304	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	933806			98.07- 158.07	128.07
16.575	16.575 (1.105)	176	696072			65.46- 125.46	95.46
6 Propylene						CAS #: 115-07-1	
2.253	2.253 (0.280)	41	1265724	50.0000	54.983	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	802373			33.39- 93.39	63.39
2.253	2.253 (0.280)	39	878627			39.42- 99.42	69.42
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.336	2.336 (0.290)	85	2007632	50.0000	54.451	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	648300			2.29- 62.29	32.29
9 Freon 114						CAS #: 76-14-2	
2.446	2.446 (0.304)	135	1670931	50.0000	55.632	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	535164			2.03- 62.03	32.03
10 Chloromethane						CAS #: 74-87-3	
2.585	2.585 (0.321)	50	1472622	50.0000	53.146	80.00- 120.00	100.00
2.585	2.585 (0.321)	52	440257			0.00- 59.90	29.90
13 Vinyl Chloride						CAS #: 75-01-4	
2.750	2.750 (0.341)	62	1255638	50.0000	55.816	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	377005			0.02- 60.02	30.02
12 1,3-Butadiene						CAS #: 106-99-0	
2.750	2.750 (0.341)	54	1186480	50.0000	53.321	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1474124			94.24- 154.24	124.24
15 Bromomethane						CAS #: 74-83-9	
3.276	3.276 (0.406)	94	716413	50.0000	56.968	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	665263			62.86- 122.86	92.86
19 Chloroethane						CAS #: 75-00-3	
3.386	3.386 (0.420)	64	610852	50.0000	54.678	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	192538			1.52- 61.52	31.52
3.386	3.386 (0.420)	66	186794			0.58- 60.58	30.58
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.718	3.718 (0.461)	101	2137246	50.0000	56.833	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1356302			33.46- 93.46	63.46

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	514471	50.0000	57.908	80.00- 120.00	100.00
4.078	4.078 (0.506)	43	91694			0.00- 47.82	17.82
4.078	4.078 (0.506)	46	202258			9.31- 69.31	39.31
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1255191	50.0000	54.175	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	793240			33.20- 93.20	63.20
4.520	4.520 (0.561)	101	1716913			106.78- 166.78	136.78
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1692914	50.0000	56.892	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	904151			23.41- 83.41	53.41
4.575	4.575 (0.568)	98	575810			4.01- 64.01	34.01
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	593883	50.0000	52.106	80.00- 120.00	100.00
4.714	4.714 (0.585)	43	2077338			319.79- 379.79	349.79
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2349546	50.0000	54.571	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	557862			0.00- 53.74	23.74
4.907	4.907 (0.609)	59	78709			0.00- 33.35	3.35
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2864850	50.0000	55.790	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	496706	50.0000	56.233	80.00- 120.00	100.00
5.184	5.184 (0.643)	41	1959446			364.49- 424.49	394.49
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1462447	50.0000	54.160	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	829798			26.74- 86.74	56.74
5.432	5.432 (0.674)	51	425057			0.00- 59.06	29.06
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1554787	50.0000	60.227	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	457233			0.00- 59.41	29.41
5.764	5.764 (0.715)	41	536295			4.49- 64.49	34.49
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1097288	50.0000	56.613	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1762833			130.65- 190.65	160.65
5.819	5.819 (0.722)	98	679562			31.93- 91.93	61.93

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	2226777	50.0000	58.407	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1617720			42.65- 102.65	72.65
6.151	6.151 (0.763)	86	312865			0.00- 44.05	14.05
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2007827	50.0000	56.153	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	594800			0.00- 59.62	29.62
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	509100	50.0000	58.367	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	2869395			533.62- 593.62	563.62
7.644	7.644 (0.949)	57	199433			9.17- 69.17	39.17
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1479989	50.0000	57.340	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1065640			42.00- 102.00	72.00
7.617	7.617 (0.945)	98	674303			15.56- 75.56	45.56
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1772021	50.0000	53.328	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	470494			0.00- 56.55	26.55
8.031	8.031 (0.997)	72	516579			0.00- 59.15	29.15
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1809544	50.0000	52.889	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1186543			35.57- 95.57	65.57
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1773716	50.0000	55.829	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1138949			34.21- 94.21	64.21
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	1471665	50.0000	58.351	80.00- 120.00	100.00
8.419	8.419 (1.045)	56	2177201			117.94- 177.94	147.94
8.419	8.419 (1.045)	41	1249724			54.92- 114.92	84.92
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	277124	50.0000	56.073	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3681296			1298.39-1358.39	1328.39
6.649	6.649 (0.825)	42	282192			71.83- 131.83	101.83
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1595179	50.0000	56.086	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1665494			74.41- 134.41	104.41

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	6349467	50.0000	57.721	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2085450			2.84- 62.84	32.84
9.082	9.082 (1.127)	41	1682302			0.00- 56.50	26.50
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3223515	50.0000	52.062	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	774352			0.00- 54.02	24.02
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1244483	50.0000	55.854	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	376709			0.27- 60.27	30.27
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	385958	50.0000	57.032	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2671822			662.26- 722.26	692.26
9.469	9.469 (0.955)	71	1156296			269.59- 329.59	299.59
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1253951	50.0000	54.620	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1254939			70.08- 130.08	100.08
10.326	10.326 (1.042)	97	818864			35.30- 95.30	65.30
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	1161085	50.0000	56.733	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	825513			41.10- 101.10	71.10
10.824	10.824 (1.092)	41	765048			35.89- 95.89	65.89
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	751865	50.0000	55.402	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	582323			47.45- 107.45	77.45
11.073	11.073 (1.117)	57	188946			0.00- 55.13	25.13
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1724779	50.0000	57.563	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1104648			34.05- 94.05	64.05
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1357048	50.0000	57.880	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	431759			1.82- 61.82	31.82
12.289	12.289 (1.240)	39	901145			36.40- 96.40	66.40
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	959235	50.0000	58.396	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2789086			260.76- 320.76	290.76
12.594	12.594 (1.271)	85	363200			7.86- 67.86	37.86

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	3385901	50.0000	56.220	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1955292			27.75- 87.75	57.75
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1339031	50.0000	58.568	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	433574			2.38- 62.38	32.38
13.340	13.340 (0.889)	39	883201			35.96- 95.96	65.96
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1167567	50.0000	57.858	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	745284			33.83- 93.83	63.83
13.644	13.644 (0.910)	83	965561			52.70- 112.70	82.70
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1488209	50.0000	56.799	80.00- 120.00	100.00
13.672	13.672 (0.912)	129	1112208			44.73- 104.73	74.73
13.672	13.672 (0.912)	131	1050639			40.60- 100.60	70.60
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1326582	50.0000	54.874	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2808501			181.71- 241.71	211.71
14.004	14.004 (0.934)	100	250860			0.00- 48.91	18.91
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1722283	50.0000	57.788	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1346503			48.18- 108.18	78.18
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1845098	50.0000	54.687	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1752779			65.00- 125.00	95.00
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2697354	50.0000	56.161	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	874398			2.42- 62.42	32.42
15.027	15.027 (1.002)	77	1546623			27.34- 87.34	57.34
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1544298	50.0000	58.140	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4661881			271.88- 331.88	301.88
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1917128	50.0000	58.050	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3640544			159.90- 219.90	189.90
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1799335	50.0000	58.277	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	3601342			170.15- 230.15	200.15
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2848660	50.0000	57.270	80.00- 120.00	100.00
15.884	15.884 (1.059)	78	1242597			13.62- 73.62	43.62
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1667802	50.0000	58.358	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	873332			22.36- 82.36	52.36
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2526396	50.0000	55.534	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1672300			36.19- 96.19	66.19
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5747427	50.0000	61.562	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1734194			0.17- 60.17	30.17
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4824861	50.0000	58.079	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2459390			20.97- 80.97	50.97
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3987255	50.0000	57.193	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1893138			17.48- 77.48	47.48
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2652020	50.0000	54.784	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1693624			33.86- 93.86	63.86
17.764	17.764 (1.184)	111	1027732			8.75- 68.75	38.75
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3443847	50.0000	56.493	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2158560			32.68- 92.68	62.68
17.847	17.847 (1.190)	111	1305873			7.92- 67.92	37.92
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4387960	50.0000	63.974	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	978171			0.00- 52.29	22.29
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2680729	50.0000	53.988	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1669080			32.26- 92.26	62.26
18.206	18.206 (1.214)	111	1016658			7.92- 67.92	37.92

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	1798465	50.0000	49.248	80.00- 120.00	100.00
19.478	19.478 (1.299)	182	1674208			63.09- 123.09	93.09
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.561	19.561 (1.304)	225	1239505	50.0000	50.308	80.00- 120.00	100.00
19.561	19.561 (1.304)	223	779439			32.88- 92.88	62.88
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6106747	50.0000	59.257	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1455407			0.00- 53.83	23.83
16.824	16.824 (1.122)	105	224499			0.00- 33.68	3.68
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5242531	50.0000	56.589	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1439389			0.00- 57.46	27.46
16.326	16.326 (1.088)	51	573438			0.00- 40.94	10.94
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6852340	50.0000	58.574	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	865966			0.00- 42.64	12.64
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	1201021	50.0000	54.458	80.00- 120.00	100.00
5.571	5.571 (0.691)	41	358675			0.00- 59.86	29.86
5.571	5.571 (0.691)	57	117291			0.00- 39.77	9.77
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	308974	50.0000	51.563	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	2593192			809.29- 869.29	839.29
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2014595	50.0000	54.249	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1152362			27.20- 87.20	57.20
3.414	3.414 (0.424)	72	109124			0.00- 35.42	5.42
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	1903994	50.0000	56.248	80.00- 120.00	100.00
10.548	10.548 (1.064)	98	914284			18.02- 78.02	48.02
10.548	10.548 (1.064)	55	1780789			63.53- 123.53	93.53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042417.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	296697	0.00
92 1,4-Difluorobenze	1234462	740677	1728247	1234462	0.00
125 Chlorobenzene-d5	1186736	712042	1661430	1186736	0.00

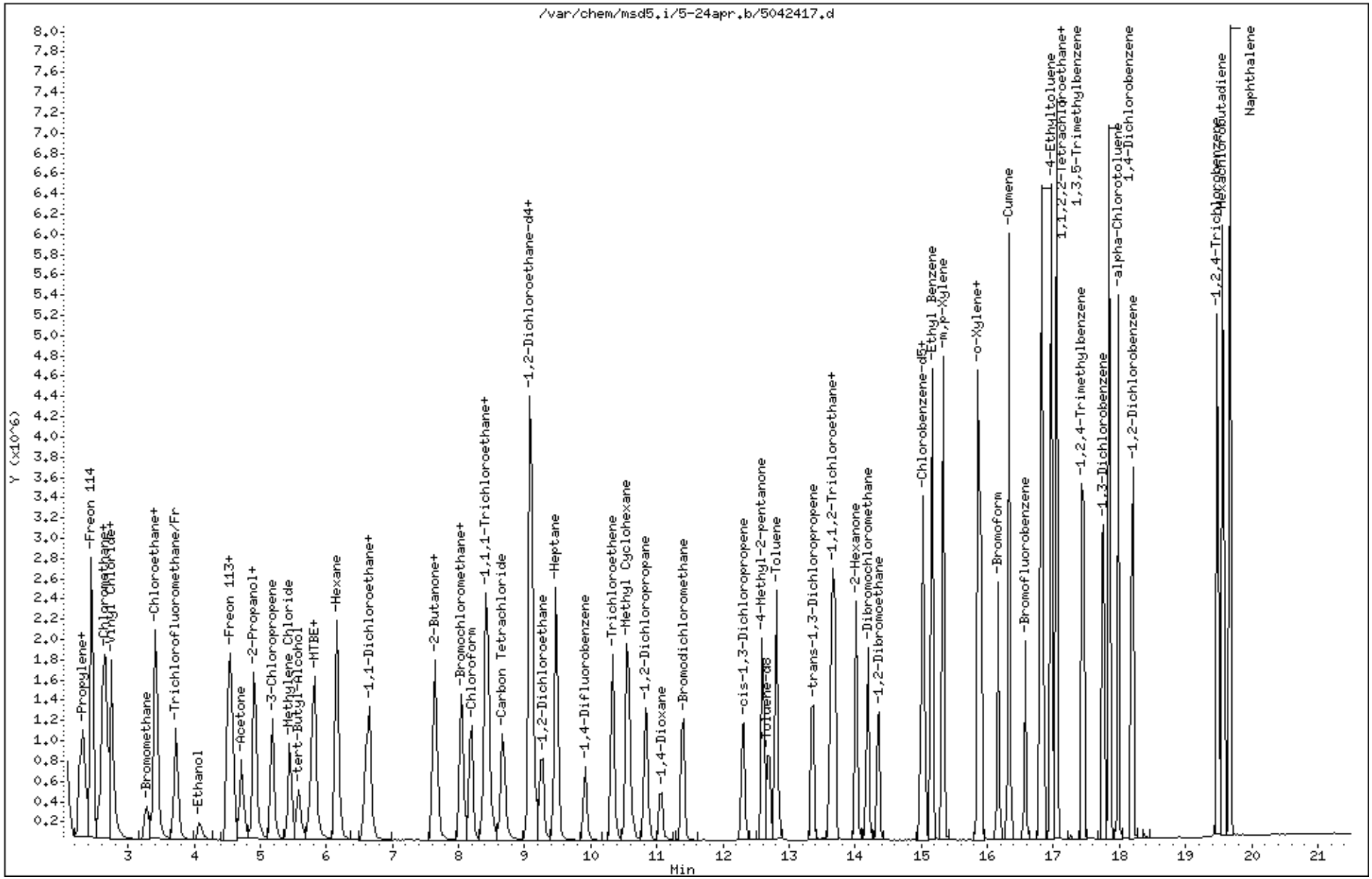
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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: /var/chem/msd5.i/5-24apr.b/5042417.d
Date : 24-APR-2008 15:47
Client ID: Level 5
Sample Info: 50mL #1612-1

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042418.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 24-APR-2008 16:15
Operator : ct Inst ID: msd5.i
Smp Info : 100mL #1612-1
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:15 Cal File: 5042418.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	314768	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	248758			47.51- 107.51	79.03
8.059	8.059 (1.000)	49	580314			158.47- 218.47	184.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1315322	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	196055			0.00- 44.75	14.91
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1284080	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	619374			0.00- 30.00	48.23
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	396058	25.0000	24.789	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	268730			0.00- 30.00	67.85
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1233164	25.0000	24.671	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	116387			0.00- 30.00	9.44

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	908053			0.00- 30.00	73.64
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	774429	25.0000	24.838	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	998473			98.07- 158.07	128.93
16.575	16.575 (1.105)	176	747257			65.46- 125.46	96.49
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2440914	100.000	99.946	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	1599974			0.00- 30.00	65.55
2.253	2.253 (0.280)	39	1753358			0.00- 30.00	71.83
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	3922921	100.000	100.29	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	1252030			0.00- 30.00	31.92
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3371549	100.000	105.81	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1073787			2.03- 62.03	31.85
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	2856326	100.000	97.165	70.00- 130.00	100.00
2.585	2.585 (0.321)	52	824954			0.00- 30.00	28.88
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	2543479	100.000	106.57	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	773361			0.00- 30.00	30.41
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	2400295	100.000	101.68	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	3132487			0.00- 30.00	130.50
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1487359	100.000	111.48	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	1400297			62.86- 122.86	94.15
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1257981	100.000	106.14	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	400265			0.00- 30.00	31.82
3.414	3.414 (0.424)	66	376428			0.00- 30.00	29.92
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	4301685	100.000	107.82	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	2775017			33.46- 93.46	64.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	953552	100.000	101.17	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	182300			0.00- 30.00	19.12
4.105	4.105 (0.509)	46	377945			0.00- 30.00	39.64
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	2609263	100.000	106.15	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1639413			33.20- 93.20	62.83
4.520	4.520 (0.561)	101	3537010			106.78- 166.78	135.56
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	3473232	100.000	110.02	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1894768			23.41- 83.41	54.55
4.575	4.575 (0.568)	98	1194936			4.01- 64.01	34.40
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	1276148	100.000	105.54	70.00- 130.00	100.00
4.714	4.714 (0.585)	43	4245872			0.00- 30.00	332.71
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	5025627	100.000	110.02	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1114984			0.00- 30.00	22.19
4.935	4.935 (0.612)	59	173881			0.00- 30.00	3.46
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	5927459	100.000	108.80	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	1031514	100.000	110.07	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	4029364			0.00- 30.00	390.63
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	2972326	100.000	103.76	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	1666810			26.74- 86.74	56.08
5.460	5.460 (0.678)	51	906839			0.00- 30.00	30.51
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	3286350	100.000	119.99	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	944732			0.00- 59.41	28.75
5.764	5.764 (0.715)	41	1089741			0.00- 30.00	33.16
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	2195607	100.000	106.78	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	3566115			130.65- 190.65	162.42
5.820	5.820 (0.722)	98	1440978			0.00- 30.00	65.63

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	4541336	100.000	112.28	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3333952			0.00- 30.00	73.41
6.151	6.151 (0.763)	86	649745			0.00- 30.00	14.31
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	4086831	100.000	107.74	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	1240469			0.00- 59.62	30.35
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1087267	100.000	117.50	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	5975832			533.62- 593.62	549.62
7.644	7.644 (0.949)	57	402232			0.00- 30.00	36.99
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2971725	100.000	108.52	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	2158501			42.00- 102.00	72.63
7.617	7.617 (0.945)	98	1368417			15.56- 75.56	46.05
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3550590	100.000	100.72	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	975161			0.00- 56.55	27.46
8.031	8.031 (0.997)	72	1041547			0.00- 30.00	29.33
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3645445	100.000	100.43	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2413134			35.57- 95.57	66.20
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3552968	100.000	105.41	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2315201			34.21- 94.21	65.16
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	2952425	100.000	110.34	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	4407200			117.94- 177.94	149.27
8.419	8.419 (1.045)	41	2531714			54.92- 114.92	85.75
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	583109	100.000	111.21	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	7883295			0.00- 30.00	1351.94
6.649	6.649 (0.825)	42	592840			0.00- 30.00	101.67
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3289193	100.000	109.01	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	3404621			74.41- 134.41	103.51

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	12985712	100.000	111.27	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	4231091			0.00- 30.00	32.58
9.082	9.082 (1.127)	41	3417069			0.00- 30.00	26.31
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	6626036	100.000	100.44	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1590099			0.00- 30.00	24.00
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	2533583	100.000	106.72	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	774150			0.00- 30.00	30.56
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	774680	100.000	107.44	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	5511038			0.00- 30.00	711.40
9.469	9.469 (0.955)	71	2339309			0.00- 30.00	301.97
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2555389	100.000	104.46	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2572320			70.08- 130.08	100.66
10.326	10.326 (1.042)	97	1657921			35.30- 95.30	64.88
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	2351812	100.000	107.85	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	1670240			41.10- 101.10	71.02
10.824	10.824 (1.092)	41	1539312			35.89- 95.89	65.45
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1514081	100.000	104.71	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	1198335			47.45- 107.45	79.15
11.045	11.045 (1.114)	57	367908			0.00- 30.00	24.30
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	3512764	100.000	110.03	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	2247411			34.05- 94.05	63.98
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2795099	100.000	111.89	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	873735			1.82- 61.82	31.26
12.290	12.290 (1.240)	39	1864963			36.40- 96.40	66.72
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	2012977	100.000	115.01	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	5799162			0.00- 30.00	288.09
12.594	12.594 (1.271)	85	756868			0.00- 30.00	37.60

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	6799867	100.000	105.96	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	3949523			27.75- 87.75	58.08
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2749028	100.000	111.12	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	878914			2.38- 62.38	31.97
13.340	13.340 (0.889)	39	1852744			35.96- 95.96	67.40
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2318128	100.000	106.16	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1481339			33.83- 93.83	63.90
13.644	13.644 (0.910)	83	1927248			52.70- 112.70	83.14
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	3018605	100.000	106.47	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	2217386			44.73- 104.73	73.46
13.672	13.672 (0.912)	131	2127282			40.60- 100.60	70.47
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2815847	100.000	107.65	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	5773980			181.71- 241.71	205.05
14.004	14.004 (0.934)	100	516128			0.00- 30.00	18.33
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3507409	100.000	108.76	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2722629			0.00- 30.00	77.63
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	3742992	100.000	102.53	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	3553213			65.00- 125.00	94.93
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	5486966	100.000	105.58	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1748902			2.42- 62.42	31.87
15.027	15.027 (1.002)	77	3069131			27.34- 87.34	55.93
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	3146243	100.000	109.47	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	9281194			0.00- 30.00	294.99
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	3898092	100.000	109.08	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	7520504			0.00- 30.00	192.93
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	3613806	100.000	108.17	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	7237921			170.15- 230.15	200.29
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	5854848	100.000	108.78	70.00- 130.00	100.00
15.884	15.884 (1.059)	78	2563307			13.62- 73.62	43.78
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	3486091	100.000	112.74	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1801542			22.36- 82.36	51.68
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	5210590	100.000	105.85	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	3388691			36.19- 96.19	65.03
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	11679639	100.000	115.62	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	3544828			0.17- 60.17	30.35
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	9968466	100.000	110.90	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	5012079			0.00- 30.00	50.28
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	8313910	100.000	110.21	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	4000534			17.48- 77.48	48.12
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	5510278	100.000	105.20	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	3513745			0.00- 30.00	63.77
17.764	17.764 (1.184)	111	2125940			0.00- 30.00	38.58
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	7189666	100.000	109.00	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	4568353			0.00- 30.00	63.54
17.847	17.847 (1.190)	111	2698565			0.00- 30.00	37.53
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	9876085	100.000	133.07	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	2108481			0.00- 30.00	21.35
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	5605355	100.000	104.33	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	3547077			32.26- 92.26	63.28
18.206	18.206 (1.214)	111	2122789			7.92- 67.92	37.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.478 (1.299)	180	3835334	100.000	97.062	70.00- 130.00	100.00
19.478	19.478 (1.299)	182	3604409			63.09- 123.09	93.98
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2589942	100.000	97.150	70.00- 130.00	100.00
19.561	19.561 (1.304)	223	1626954			32.88- 92.88	62.82
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	12408875	100.000	111.28	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2948155			0.00- 30.00	23.76
16.824	16.824 (1.122)	105	455606			0.00- 30.00	3.67
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	10764532	100.000	107.38	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2988638			0.00- 30.00	27.76
16.326	16.326 (1.088)	51	1195170			0.00- 30.00	11.10
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14483126	100.000	114.42	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1844073			0.00- 30.00	12.73
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	2178401	100.000	93.105	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	632443			0.00- 30.00	29.03
5.571	5.571 (0.691)	57	223430			0.00- 30.00	10.26
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	630877	100.000	99.239	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	5188662			0.00- 30.00	822.45
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4051759	100.000	102.84	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2352330			0.00- 30.00	58.06
3.414	3.414 (0.424)	72	217959			0.00- 30.00	5.38
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	3845733	100.000	106.63	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	1899896			0.00- 30.00	49.40
10.548	10.548 (1.064)	55	3637361			0.00- 30.00	94.58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042418.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	314768	6.09
92 1,4-Difluorobenze	1234462	740677	1728247	1315322	6.55
125 Chlorobenzene-d5	1186736	712042	1661430	1284080	8.20

		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

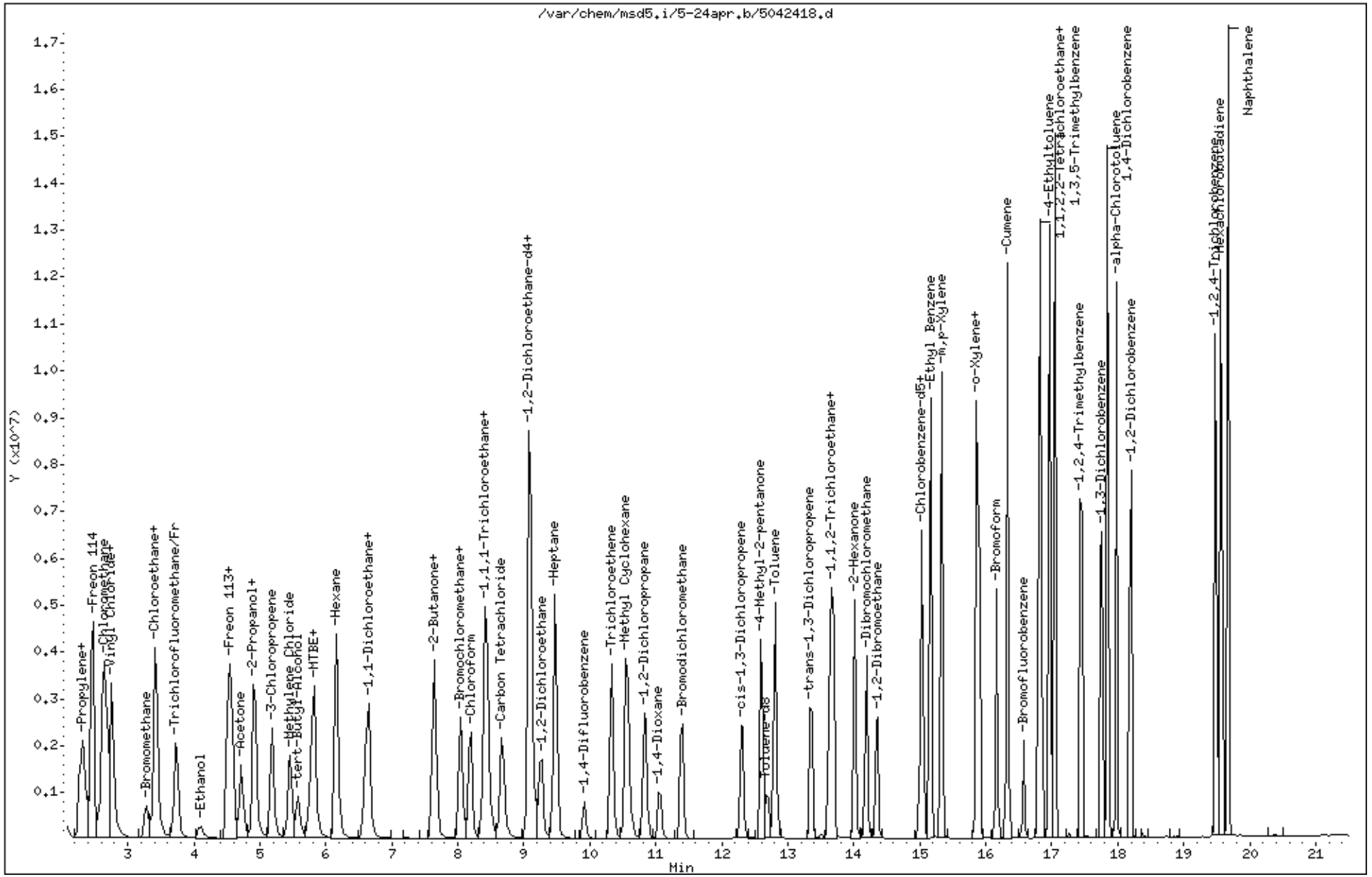
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0145

Data File: /var/chem/msd5.i/5-24apr.b/5042418.d
Date : 24-APR-2008 16:15
Client ID: Level 6
Sample Info: 100mL #1612-1

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15may.b/5051507.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 7
Inj Date : 15-MAY-2008 11:25
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #1612-16
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-15may.b/t14q424b.m
Meth Date : 15-May-2008 11:35 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Sp2b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	71 Bromochloromethane					CAS #: 74-97-5		
	8.087	8.087 (1.000)	130	240895	25.0000		80.00- 120.00	100.00
	8.087	8.059 (1.000)	128	186043			47.55- 107.55	77.23
	8.059	8.059 (1.000)	49	363909			122.81- 182.81	151.07
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.912	9.939 (1.000)	114	859451	25.0000		80.00- 120.00	100.00
	9.912	9.939 (1.000)	88	122784			0.00- 44.43	14.29
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	755195	25.0000		80.00- 120.00	100.00
	14.999	14.999 (1.000)	82	344068			0.00- 30.00	45.56
	89 Octane					CAS #: 111-65-9		
	9.497	9.497 (0.958)	57	2896798	200.000	227.65	80.00- 120.00	100.00(A)
	9.497	9.497 (0.958)	85	130254			0.00- 30.00	4.50
	9.469	9.497 (0.955)	43	6319634			0.00- 30.00	218.16
	127 Nonane					CAS #: 111-84-2		
	15.331	15.331 (1.022)	43	7519721	200.000	233.92	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
127 Nonane (continued)							
15.331	15.331 (1.022)	57	5602525			0.00- 30.00	74.50
15.331	15.331 (1.022)	85	1950212			0.00- 30.00	25.93

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: 5051507.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-15may.b/t14q424b.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 15-MAY-2008
Calibration Time: 08:39
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	311392	186835	435949	240895	-22.64
92 1,4-Difluorobenze	1102587	661552	1543622	859451	-22.05
125 Chlorobenzene-d5	942660	565596	1319724	755195	-19.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.09	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

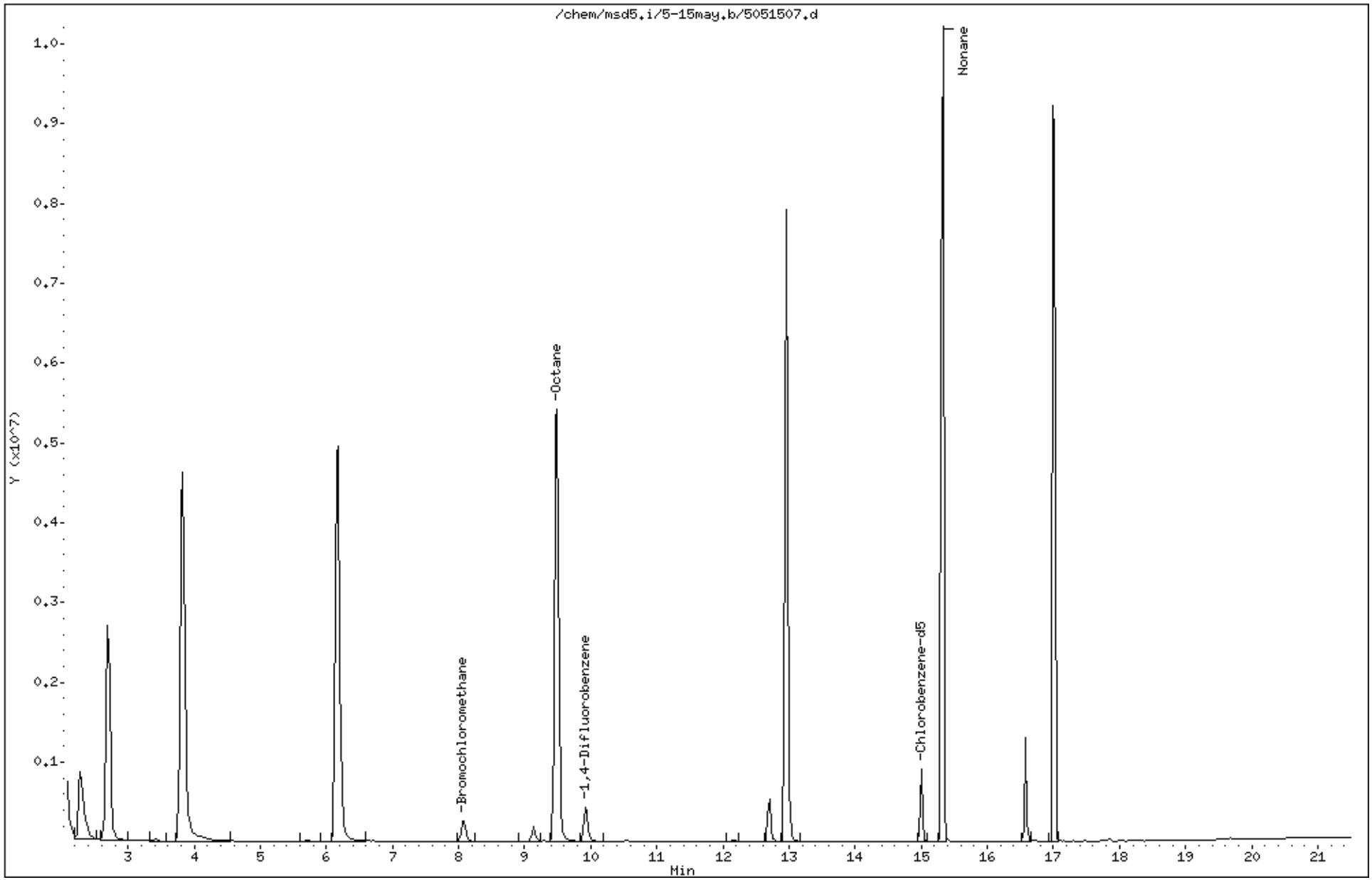
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0149

Data File: /chem/msd5.i/5-15may.b/5051507.d
Date : 15-MAY-2008 11:25
Client ID: Level 7
Sample Info: 200mL #1612-16

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042419.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 24-APR-2008 16:48
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1612-1
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	352862	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	268957			47.51- 107.51	76.22
8.059	8.059 (1.000)	49	640070			158.47- 218.47	181.39
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1473295	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	224238			0.00- 44.75	15.22
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1390786	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	680691			0.00- 30.00	48.94
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	483087	25.0000	26.972	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	358743			0.00- 30.00	74.26
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1402148	25.0000	25.044	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	130299			0.00- 30.00	9.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	1039657			0.00- 30.00	74.15
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	862338	25.0000	25.536	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1132134			98.07- 158.07	131.29
16.575	16.575 (1.105)	176	830968			65.46- 125.46	96.36
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	5107080	200.000	186.54	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	3363444			0.00- 30.00	65.86
2.280	2.280 (0.283)	39	3561660			0.00- 30.00	69.74
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	9044480	200.000	206.26	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	87	2921180			0.00- 30.00	32.30
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	7111706	200.000	199.09	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	2247924			2.03- 62.03	31.61
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	6374787	200.000	193.44	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	1815130			0.00- 30.00	28.47
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	5508708	200.000	205.90	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	64	1648992			0.00- 30.00	29.93
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	5158992	200.000	194.94	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	7042916			0.00- 30.00	136.52
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	3276503	200.000	219.07	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	3090905			62.86- 122.86	94.34
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	2736428	200.000	205.95	70.00- 130.00	100.00(A)
3.442	3.442 (0.427)	49	826850			0.00- 30.00	30.22
3.442	3.442 (0.427)	66	801237			0.00- 30.00	29.28
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	9192370	200.000	205.53	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	5982295			33.46- 93.46	65.08

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	2033987	200.000	192.50	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	361341			0.00- 30.00	17.77
4.105	4.105 (0.509)	46	823219			0.00- 30.00	40.47
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	5624864	200.000	204.13	70.00- 130.00	100.00(A)
4.548	4.548 (0.564)	153	3574666			33.20- 93.20	63.55
4.520	4.520 (0.561)	101	7597698			106.78- 166.78	135.07
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	7385705	200.000	208.70	70.00- 130.00	100.00(A)
4.575	4.575 (0.568)	96	4072724			23.41- 83.41	55.14
4.575	4.575 (0.568)	98	2614739			4.01- 64.01	35.40
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	2738118	200.000	202.00	70.00- 130.00	100.00(A)
4.741	4.741 (0.588)	43	8955763			0.00- 30.00	327.08
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	10887206	200.000	212.62	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2375852			0.00- 30.00	21.82
4.935	4.935 (0.612)	59	373309			0.00- 30.00	3.43
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	12633168	200.000	206.86	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	2233511	200.000	212.61	70.00- 130.00	100.00(A)
5.184	5.184 (0.643)	41	8775245			0.00- 30.00	392.89
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	6356189	200.000	197.92	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	3614985			26.74- 86.74	56.87
5.460	5.460 (0.678)	51	1909630			0.00- 30.00	30.04
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	6761828	200.000	220.24	70.00- 130.00	100.00(A)
5.764	5.764 (0.715)	57	1993273			0.00- 59.41	29.48
5.764	5.764 (0.715)	41	2156763			0.00- 30.00	31.90
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	4762530	200.000	206.61	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	7581725			130.65- 190.65	159.20
5.819	5.819 (0.722)	98	3033575			0.00- 30.00	63.70

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	9696208	200.000	213.84	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	7062800			0.00- 30.00	72.84
6.151	6.151 (0.763)	86	1386116			0.00- 30.00	14.30
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	8762075	200.000	206.05	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	65	2628137			0.00- 59.62	29.99
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	2345963	200.000	226.15	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	12916794			533.62- 593.62	550.60
7.644	7.644 (0.949)	57	880571			0.00- 30.00	37.54
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	6390097	200.000	208.17	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	4639467			42.00- 102.00	72.60
7.644	7.644 (0.949)	98	2977322			15.56- 75.56	46.59
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	7721108	200.000	195.38	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	2098899			0.00- 56.55	27.18
8.031	8.031 (0.997)	72	2287344			0.00- 30.00	29.62
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	7876085	200.000	193.56	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	5137314			35.57- 95.57	65.23
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	7624161	200.000	201.78	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	4913489			34.21- 94.21	64.45
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	6424844	200.000	214.19	70.00- 130.00	100.00(A)
8.419	8.419 (1.045)	56	9468340			117.94- 177.94	147.37
8.419	8.419 (1.045)	41	5523951			54.92- 114.92	85.98
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	1297564	200.000	220.76	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	17238605			0.00- 30.00	1328.54
6.649	6.649 (0.825)	42	1264566			0.00- 30.00	97.46
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	7157412	200.000	211.60	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	7386429			74.41- 134.41	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	27073929	200.000	206.94	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	8885401			0.00- 30.00	32.82
9.082	9.082 (1.127)	41	7111432			0.00- 30.00	26.27
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	14174332	200.000	191.82	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	3314071			0.00- 30.00	23.38
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	5352598	200.000	201.29	70.00- 130.00	100.00(A)
9.276	9.276 (0.936)	64	1685351			0.00- 30.00	31.49
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1692801	200.000	209.59	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	11661836			0.00- 30.00	688.91
9.469	9.469 (0.955)	71	5029086			0.00- 30.00	297.09
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	5513535	200.000	201.23	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	5615613			70.08- 130.08	101.85
10.326	10.326 (1.042)	97	3601372			35.30- 95.30	65.32
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	5068481	200.000	207.51	70.00- 130.00	100.00(A)
10.852	10.852 (1.095)	62	3591431			41.10- 101.10	70.86
10.824	10.824 (1.092)	41	3369953			35.89- 95.89	66.49
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	3254437	200.000	200.93	70.00- 130.00	100.00(A)
11.045	11.045 (1.114)	58	2568539			47.45- 107.45	78.92
11.045	11.045 (1.114)	57	804051			0.00- 30.00	24.71
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	7606196	200.000	212.70	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	4928723			34.05- 94.05	64.80
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6121950	200.000	218.78	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1962590			1.82- 61.82	32.06
12.289	12.289 (1.240)	39	4121778			36.40- 96.40	67.33
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	4375216	200.000	223.18	70.00- 130.00	100.00(A)
12.594	12.594 (1.271)	43	12883456			0.00- 30.00	294.46
12.594	12.594 (1.271)	85	1665949			0.00- 30.00	38.08

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	14715034	200.000	204.72	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	8671052			27.75- 87.75	58.93
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	6122303	200.000	228.50	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1968332			2.38- 62.38	32.15
13.340	13.340 (0.889)	39	4120372			35.96- 95.96	67.30
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	4957823	200.000	209.64	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	3128935			33.83- 93.83	63.11
13.644	13.644 (0.910)	83	4145012			52.70- 112.70	83.61
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	6542999	200.000	213.08	70.00- 130.00	100.00(A)
13.700	13.700 (0.913)	129	4826911			44.73- 104.73	73.77
13.700	13.700 (0.913)	131	4613990			40.60- 100.60	70.52
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	6243382	200.000	220.36	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	13047855			181.71- 241.71	208.99
14.004	14.004 (0.934)	100	1164686			0.00- 30.00	18.65
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7876482	200.000	225.51	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	6027229			0.00- 30.00	76.52
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	8167826	200.000	206.57	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	7783744			65.00- 125.00	95.30
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	11915794	200.000	211.70	70.00- 130.00	100.00(A)
15.027	15.027 (1.002)	114	3825212			2.42- 62.42	32.10
15.027	15.027 (1.002)	77	6622460			27.34- 87.34	55.58
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	6669942	200.000	214.27	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	19182168			0.00- 30.00	287.59
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	8463274	200.000	218.67	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	15951348			0.00- 30.00	188.48
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	7769123	200.000	214.71	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	15509343			170.15- 230.15	199.63
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	12564258	200.000	215.53	70.00- 130.00	100.00(A)
15.884	15.884 (1.059)	78	5530760			13.62- 73.62	44.02
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	7597747	200.000	226.85	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3935735			22.36- 82.36	51.80
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	10842623	200.000	203.37	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	7047201			36.19- 96.19	65.00
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	20032744	200.000	183.10	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	7434755			0.17- 60.17	37.11
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	16255633	200.000	166.97	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	10370188			0.00- 30.00	63.79
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	17824050	200.000	218.16	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	8503418			17.48- 77.48	47.71
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	12064563	200.000	212.66	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	7653912			0.00- 30.00	63.44
17.764	17.764 (1.184)	111	4515582			0.00- 30.00	37.43
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	14810772	200.000	207.31	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	9446744			0.00- 30.00	63.78
17.847	17.847 (1.190)	111	5597817			0.00- 30.00	37.80
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14878836	200.000	185.10	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	4649264			0.00- 30.00	31.25
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	11783737	200.000	202.50	70.00- 130.00	100.00(A)
18.206	18.206 (1.214)	148	7589145			32.26- 92.26	64.40
18.206	18.206 (1.214)	111	4450169			7.92- 67.92	37.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.478 (1.299)	180	8677009	200.000	202.74	70.00- 130.00	100.00(A)
19.478	19.478 (1.299)	182	8215187			63.09- 123.09	94.68
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	5938360	200.000	205.66	70.00- 130.00	100.00(A)
19.589	19.589 (1.306)	223	3675205			32.88- 92.88	61.89
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	21934020	200.000	181.61	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	6278971			0.00- 30.00	28.63
16.824	16.824 (1.122)	105	966431			0.00- 30.00	4.41
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	18215849	200.000	167.78	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	6300885			0.00- 30.00	34.59
16.326	16.326 (1.088)	51	2546769			0.00- 30.00	13.98
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	15192378	200.000	110.81	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	3972851			0.00- 30.00	26.15
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	3661067	200.000	139.58	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	1129400			0.00- 30.00	30.85
5.571	5.571 (0.691)	57	369514			0.00- 30.00	10.09
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1333404	200.000	187.10	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	11208143			0.00- 30.00	840.57
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	8738867	200.000	197.86	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	5087014			0.00- 30.00	58.21
3.414	3.414 (0.424)	72	465640			0.00- 30.00	5.33
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	8327997	200.000	206.14	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	4021726			0.00- 30.00	48.29
10.548	10.548 (1.064)	55	7780951			0.00- 30.00	93.43

QC Flag Legend

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

Report Date: 25-Apr-2008 09:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042419.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	352862	18.93
92 1,4-Difluorobenze	1234462	740677	1728247	1473295	19.35
125 Chlorobenzene-d5	1186736	712042	1661430	1390786	17.19

		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

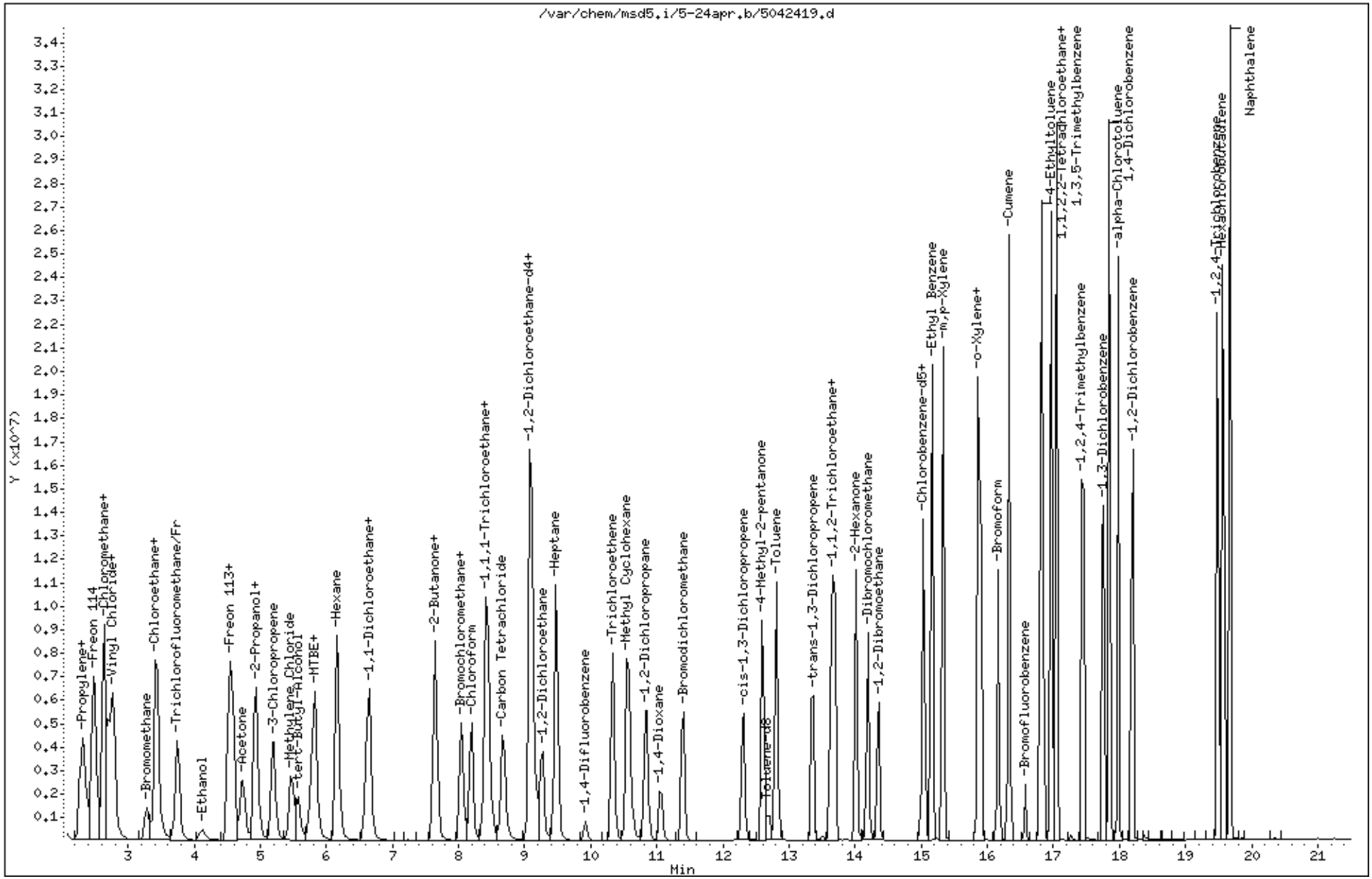
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0159

Data File: /var/chem/msd5.i/5-24apr.b/5042419.d
Date : 24-APR-2008 16:48
Client ID: Level 7
Sample Info: 200mL #1612-1

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805378-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/08 07:51 AM**	

Compound	%Recovery
Freon 12	74
Freon 114	112
Vinyl Chloride	102
Bromomethane	122
Chloroethane	102
Freon 11	92
1,1-Dichloroethene	84
Freon 113	112
Methylene Chloride	77
1,1-Dichloroethane	78
cis-1,2-Dichloroethene	75
Chloroform	70
1,1,1-Trichloroethane	72
Carbon Tetrachloride	78
Benzene	82
1,2-Dichloroethane	91
Trichloroethene	86
1,2-Dichloropropane	81
cis-1,3-Dichloropropene	83
Toluene	83
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	94
Tetrachloroethene	110
1,2-Dibromoethane (EDB)	92
Chlorobenzene	95
Ethyl Benzene	95
m,p-Xylene	95
o-Xylene	92
Styrene	95
1,1,2,2-Tetrachloroethane	84
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	110
1,3-Butadiene	91
Hexane	81
Cyclohexane	78

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805378-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/08 07:51 AM**	

Compound	%Recovery
Heptane	94
Bromodichloromethane	88
Dibromochloromethane	103
Cumene	92
Propylbenzene	91
Chloromethane	79
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	108
Acetone	90
Carbon Disulfide	97
2-Propanol	76
trans-1,2-Dichloroethene	96
2-Butanone (Methyl Ethyl Ketone)	84
Tetrahydrofuran	68 Q
1,4-Dioxane	81
4-Methyl-2-pentanone	84
2-Hexanone	84
Bromoform	109
4-Ethyltoluene	93
Ethanol	89
Methyl tert-butyl ether	115
3-Chloropropene	95
2,2,4-Trimethylpentane	69 Q
Naphthalene	103

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	78	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 27-MAY-2008 07:51
Lab File ID: 5052702.d Init. Cal. Date(s): 24-APR-2008 15-MAY-2008
Analysis Type: AIR Init. Cal. Times: 13:56 11:25
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-27may.b/t14q424b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 84 1,2-Dichloroethane-d4	1.26895	0.99226	0.010	21.80420	30.00000	Averaged	
$ 107 Toluene-d8	0.95003	0.84557	0.010	10.99510	30.00000	Averaged	
$ 138 Bromofluorobenzene	0.60703	0.66537	0.010	-9.60951	30.00000	Averaged	
6 Propylene	1.93970	1.50061	0.010	22.63709	30.00000	Averaged	
8 Dichlorodifluoromethane/Fr1	3.10671	2.31371	0.010	25.52554	30.00000	Averaged	
9 Freon 114	2.53080	2.84677	0.010	-12.48496	30.00000	Averaged	
10 Chloromethane	2.33479	1.84438	0.010	21.00465	30.00000	Averaged	
13 Vinyl Chloride	1.89555	1.93674	0.010	-2.17315	30.00000	Averaged	
12 1,3-Butadiene	1.87495	1.70478	0.010	9.07583	30.00000	Averaged	
15 Bromomethane	1.05964	1.29429	0.010	-22.14416	30.00000	Averaged	
19 Chloroethane	0.94135	0.96407	0.010	-2.41323	30.00000	Averaged	
20 Trichlorofluoromethane/Fr11	3.16868	2.91471	0.010	8.01508	30.00000	Averaged	
26 Ethanol	0.74860	0.66644	0.010	10.97546	30.00000	Averaged	
30 Freon 113	1.95225	2.17919	0.010	-11.62454	30.00000	Averaged	
31 1,1-Dichloroethene	2.50732	2.09704	0.010	16.36337	30.00000	Averaged	
32 Acetone	0.96038	0.86878	0.010	9.53837	30.00000	Averaged	
36 2-Propanol	3.62782	2.77638	0.010	23.46992	30.00000	Averaged	
35 Carbon Disulfide	4.32685	4.18206	0.010	3.34634	30.00000	Averaged	
38 3-Chloropropene	0.74428	0.71044	0.010	4.54633	30.00000	Averaged	
43 Methylene Chloride	2.27526	1.76305	0.010	22.51228	30.00000	Averaged	
46 MTBE	2.17525	2.49322	0.010	-14.61778	30.00000	Averaged	
47 trans-1,2-Dichloroethene	1.63316	1.56521	0.010	4.16102	30.00000	Averaged	
51 Hexane	3.21249	2.59669	0.010	19.16894	30.00000	Averaged	
56 Vinyl Acetate	0.41643	0.37284	0.010	10.46848	30.00000	Averaged	
55 1,1-Dichloroethane	3.01285	2.35682	0.010	21.77457	30.00000	Averaged	
67 2-Butanone	0.73496	0.61509	0.010	16.31033	30.00000	Averaged	
66 cis-1,2-Dichloroethene	2.17486	1.63368	0.010	24.88324	30.00000	Averaged	
70 Tetrahydrofuran	2.79990	1.91511	0.010	31.60092	30.00000	Averaged	<-
72 Chloroform	2.88290	2.03213	0.010	29.51102	30.00000	Averaged	
75 1,1,1-Trichloroethane	2.67702	1.92289	0.010	28.17050	30.00000	Averaged	
74 Cyclohexane	2.12515	1.66307	0.010	21.74366	30.00000	Averaged	
77 Carbon Tetrachloride	2.39650	1.87752	0.010	21.65581	30.00000	Averaged	
80 2,2,4-Trimethylpentane	9.26895	6.41868	0.010	30.75081	30.00000	Averaged	<-
81 Benzene	1.25391	1.03550	0.010	17.41840	30.00000	Averaged	
85 1,2-Dichloroethane	0.45123	0.40980	0.010	9.18127	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 27-MAY-2008 07:51
Lab File ID: 5052702.d Init. Cal. Date(s): 24-APR-2008 15-MAY-2008
Analysis Type: AIR Init. Cal. Times: 13:56 11:25
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-27may.b/t14q424b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.13705	0.12914	0.010	5.77295	30.00000	Averaged
93 Trichloroethene	0.46494	0.40246	0.010	13.43798	30.00000	Averaged
98 1,2-Dichloropropane	0.41447	0.33453	0.010	19.28642	30.00000	Averaged
99 1,4-Dioxane	0.27484	0.22185	0.010	19.28185	30.00000	Averaged
100 Bromodichloromethane	0.60680	0.53291	0.010	12.17737	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.47482	0.39350	0.010	17.12671	30.00000	Averaged
106 4-Methyl-2-pentanone	0.33266	0.28100	0.010	15.52832	30.00000	Averaged
108 Toluene	1.21969	1.01459	0.010	16.81580	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.48163	0.45814	0.010	4.87645	30.00000	Averaged
114 1,1,2-Trichloroethane	0.42511	0.39786	0.010	6.41161	30.00000	Averaged
116 Tetrachloroethene	0.55196	0.60987	0.010	-10.49160	30.00000	Averaged
119 2-Hexanone	0.50928	0.42701	0.010	16.15341	30.00000	Averaged
120 Dibromochloromethane	0.62784	0.64756	0.010	-3.14043	30.00000	Averaged
122 1,2-Dibromoethane	0.71076	0.65310	0.010	8.11208	30.00000	Averaged
126 Chlorobenzene	1.01178	0.96418	0.010	4.70432	30.00000	Averaged
128 Ethyl Benzene	0.55955	0.53418	0.010	4.53353	30.00000	Averaged
130 m,p-Xylene	0.69572	0.65903	0.010	5.27350	30.00000	Averaged
132 o-Xylene	0.65043	0.59972	0.010	7.79656	30.00000	Averaged
133 Styrene	1.04786	0.99305	0.010	5.23052	30.00000	Averaged
134 Bromoform	0.60204	0.65400	0.010	-8.63006	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.95835	0.80588	0.010	15.90960	30.00000	Averaged
144 4-Ethyltoluene	1.96672	1.83464	0.010	6.71592	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.75006	1.64112	0.010	6.22527	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.46865	1.39154	0.010	5.25011	30.00000	Averaged
155 1,3-Dichlorobenzene	1.01978	1.10957	0.010	-8.80430	30.00000	Averaged
156 1,4-Dichlorobenzene	1.28420	1.33159	0.010	-3.69041	30.00000	Averaged
157 alpha-Chlorotoluene	1.44493	1.60280	0.010	-10.92571	30.00000	Averaged
159 1,2-Dichlorobenzene	1.04603	1.15674	0.010	-10.58353	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.76931	0.81445	0.010	-5.86799	30.00000	Averaged
164 Hexachlorobutadiene	0.51903	0.56218	0.010	-8.31232	30.00000	Averaged
142 Propylbenzene	2.17097	1.97842	0.010	8.86925	30.00000	Averaged
136 Cumene	1.95163	1.78965	0.010	8.29958	30.00000	Averaged
165 Naphthalene	2.46443	2.54607	0.010	-3.31281	30.00000	Averaged
37 tert-Butyl-Alcohol	1.85830	1.47048	0.010	20.86933	40.00000	Averaged
11 Butane	0.50491	0.46173	0.010	8.55244	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 27-MAY-2008 07:51
Lab File ID: 5052702.d Init. Cal. Date(s): 24-APR-2008 15-MAY-2008
Analysis Type: AIR Init. Cal. Times: 13:56 11:25
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-27may.b/t14q424b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
17 Isopentane	3.12912	2.67516	0.010	14.50734	30.00000	Averaged
94 Methyl Cyclohexane	0.68552	0.56928	0.010	16.95731	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27may.b/5052702.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 27-MAY-2008 07:51
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1612-5
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-27may.b/t14q424b.m
Meth Date : 27-May-2008 08:05 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane						CAS #: 74-97-5	
8.087	8.087 (1.000)	130	312772	25.0000		80.00- 120.00	100.00
8.087	8.087 (1.000)	128	234631			45.02- 105.02	75.02
8.059	8.059 (1.000)	49	453364			114.95- 174.95	144.95
* 92 1,4-Difluorobenzene						CAS #: 540-36-3	
9.939	9.939 (1.000)	114	1084143	25.0000		80.00- 120.00	100.00
9.939	9.939 (1.000)	88	144356			0.00- 43.32	13.32
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.999	14.999 (1.000)	117	954976	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	447151			0.00- 30.00	46.82
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
9.137	9.137 (1.130)	65	310352	25.0000	19.549	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	177323			30.69- 90.69	57.14
$ 107 Toluene-d8						CAS #: 2037-26-5	
12.704	12.704 (1.278)	98	916721	25.0000	22.251	80.00- 120.00	100.00
12.704	12.704 (1.278)	70	81008			0.00- 39.37	8.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	655573			37.11- 97.11	71.51
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	635408	25.0000	27.402	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	713029			82.22- 142.22	112.22
16.575	16.575 (1.105)	176	618563			67.35- 127.35	97.35
6 Propylene					CAS #: 115-07-1		
2.308	2.308 (0.285)	41	938698	50.0000	38.681	80.00- 120.00	100.00
2.308	2.308 (0.285)	42	636542			0.00- 30.00	67.81
2.308	2.308 (0.285)	39	634684			0.00- 30.00	67.61
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.292)	85	1447329	50.0000	37.237	80.00- 120.00	100.00
2.363	2.363 (0.292)	87	473749			0.00- 30.00	32.73
9 Freon 114					CAS #: 76-14-2		
2.501	2.501 (0.309)	135	1780783	50.0000	56.242	80.00- 120.00	100.00
2.501	2.501 (0.309)	137	567228			1.85- 61.85	31.85
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.323)	50	1153741	50.0000	39.498	80.00- 120.00	100.00
2.612	2.612 (0.323)	52	342439			0.00- 30.00	29.68
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.347)	62	1211519	50.0000	51.086	80.00- 120.00	100.00
2.806	2.806 (0.347)	64	365834			0.00- 30.00	30.20
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	1066418	50.0000	45.462	80.00- 120.00	100.00
2.778	2.778 (0.344)	39	1209682			0.00- 30.00	113.43
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.408)	94	809638	50.0000	61.072	80.00- 120.00	100.00
3.303	3.303 (0.408)	96	754718			63.22- 123.22	93.22
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.426)	64	603068	50.0000	51.207	80.00- 120.00	100.00
3.441	3.441 (0.426)	49	153172			0.00- 30.00	25.40
3.441	3.441 (0.426)	66	184850			0.00- 30.00	30.65
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.773	3.773 (0.467)	101	1823282	50.0000	45.992	80.00- 120.00	100.00
3.773	3.773 (0.467)	103	1194203			35.50- 95.50	65.50

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 (0.511)	45	416887	50.0000	44.512	80.00- 120.00	100.00
4.133	4.133 (0.511)	43	78026			0.00- 30.00	18.72
4.133	4.133 (0.511)	46	157014			0.00- 30.00	37.66
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.562)	151	1363181	50.0000	55.812	80.00- 120.00	100.00
4.547	4.547 (0.562)	153	867788			33.66- 93.66	63.66
4.547	4.547 (0.562)	101	1635086			89.95- 149.95	119.95
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.569)	61	1311791	50.0000	41.818	80.00- 120.00	100.00
4.603	4.603 (0.569)	96	884404			37.42- 97.42	67.42
4.603	4.603 (0.569)	98	573060			13.69- 73.69	43.69
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.586)	58	543459	50.0000	45.231	80.00- 120.00	100.00
4.741	4.741 (0.586)	43	1581588			0.00- 30.00	291.02
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.610)	45	1736749	50.0000	38.265	80.00- 120.00	100.00
4.935	4.935 (0.610)	43	404334			0.00- 30.00	23.28
4.962	4.962 (0.614)	59	62633			0.00- 30.00	3.61
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.610)	76	2616068	50.0000	48.327	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.644)	76	444415	50.0000	47.727	80.00- 120.00	100.00
5.211	5.211 (0.644)	41	1462886			0.00- 30.00	329.17
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	1102865	50.0000	38.744	80.00- 120.00	100.00
5.488	5.488 (0.679)	84	753677			38.34- 98.34	68.34
5.460	5.460 (0.675)	51	341174			0.00- 30.00	30.94
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.716)	73	1559624	50.0000	57.309	80.00- 120.00	100.00
5.792	5.792 (0.716)	57	435696			0.00- 57.94	27.94
5.792	5.792 (0.716)	41	503425			0.00- 30.00	32.28
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.723)	96	979106	50.0000	47.919	80.00- 120.00	100.00
5.847	5.847 (0.723)	61	1318533			104.67- 164.67	134.67
5.847	5.847 (0.723)	98	621161			0.00- 30.00	63.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	1624346	50.0000	40.416	80.00- 120.00	100.00
6.179	6.179 (0.764)	43	1181806			0.00- 30.00	72.76
6.179	6.179 (0.764)	86	274581			0.00- 30.00	16.90
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.826)	86	233228	50.0000	44.766	80.00- 120.00	100.00
6.676	6.676 (0.826)	43	2567455			0.00- 30.00	1100.83
6.676	6.676 (0.826)	42	199809			0.00- 30.00	85.67
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.819)	63	1474295	50.0000	39.113	80.00- 120.00	100.00
6.621	6.621 (0.819)	65	444922			0.18- 60.18	30.18
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.949)	72	384765	50.0000	41.845	80.00- 120.00	100.00
7.672	7.672 (0.949)	43	1937247			473.49- 533.49	503.49
7.672	7.672 (0.949)	57	133582			0.00- 30.00	34.72
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.945)	61	1021942	50.0000	37.558	80.00- 120.00	100.00
7.644	7.644 (0.945)	96	853034			53.47- 113.47	83.47
7.644	7.644 (0.945)	98	546922			23.52- 83.52	53.52
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (0.997)	42	1197987	50.0000	34.200	80.00- 120.00	100.00
8.059	8.059 (0.997)	71	343055			0.00- 58.64	28.64
8.059	8.059 (0.997)	72	393305			0.00- 30.00	32.83
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	1271188	50.0000	35.244	80.00- 120.00	100.00
8.197	8.197 (1.014)	85	826606			35.03- 95.03	65.03
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.044)	97	1202854	50.0000	35.915	80.00- 120.00	100.00
8.446	8.446 (1.044)	99	793478			35.97- 95.97	65.97
74 Cyclohexane					CAS #: 110-82-7		
8.446	8.446 (1.044)	84	1040324	50.0000	39.128	80.00- 120.00	100.00
8.418	8.418 (1.041)	56	1361415			100.86- 160.86	130.86
8.418	8.418 (1.041)	41	812822			48.13- 108.13	78.13
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.075)	119	1174472	50.0000	39.172	80.00- 120.00	100.00
8.695	8.695 (1.075)	117	1213652			73.34- 133.34	103.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.127)	57	4015173	50.0000	34.624	80.00- 120.00	100.00
9.110	9.110 (1.127)	56	1306522			0.00- 30.00	32.54
9.110	9.110 (1.127)	41	1134948			0.00- 30.00	28.27
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	2245259	50.0000	41.291	80.00- 120.00	100.00
9.110	9.110 (0.917)	77	535782			0.00- 30.00	23.86
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.933)	62	888567	50.0000	45.409	80.00- 120.00	100.00
9.275	9.275 (0.933)	64	264300			0.00- 30.00	29.74
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	280008	50.0000	47.114	80.00- 120.00	100.00
9.497	9.497 (0.955)	43	1728308			0.00- 30.00	617.23
9.497	9.497 (0.955)	71	745197			0.00- 30.00	266.13
93 Trichloroethene					CAS #: 79-01-6		
10.354	10.354 (1.042)	95	872644	50.0000	43.281	80.00- 120.00	100.00
10.354	10.354 (1.042)	130	988616			83.29- 143.29	113.29
10.354	10.354 (1.042)	97	578732			36.32- 96.32	66.32
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	725362	50.0000	40.357	80.00- 120.00	100.00
10.852	10.852 (1.092)	62	499878			38.91- 98.91	68.91
10.852	10.852 (1.092)	41	531082			43.22- 103.22	73.22
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	481024	50.0000	40.359	80.00- 120.00	100.00
11.073	11.073 (1.114)	58	361567			45.17- 105.17	75.17
11.073	11.073 (1.114)	57	118442			0.00- 30.00	24.62
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	1155505	50.0000	43.911	80.00- 120.00	100.00
11.405	11.405 (1.147)	85	759008			35.69- 95.69	65.69
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	853212	50.0000	41.437	80.00- 120.00	100.00
12.317	12.317 (1.239)	77	277006			2.47- 62.47	32.47
12.317	12.317 (1.239)	39	631665			44.03- 104.03	74.03
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.270)	58	609297	50.0000	42.236	80.00- 120.00	100.00
12.593	12.593 (1.267)	43	1806841			0.00- 30.00	296.55
12.621	12.621 (1.270)	85	236792			0.00- 30.00	38.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	2199911	50.0000	41.592	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	1288433			28.57- 88.57	58.57
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	875029	50.0000	47.562	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	282645			2.30- 62.30	32.30
13.368	13.368 (0.891)	39	608174			39.50- 99.50	69.50
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	759888	50.0000	46.794	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	481153			33.32- 93.32	63.32
13.644	13.644 (0.910)	83	591689			47.87- 107.87	77.87
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1164828	50.0000	55.246	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	790481			37.86- 97.86	67.86
13.699	13.699 (0.913)	131	751598			34.52- 94.52	64.52
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	815576	50.0000	41.923	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	1769066			186.91- 246.91	216.91
14.031	14.031 (0.935)	100	167164			0.00- 30.00	20.50
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1236802	50.0000	51.570	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	943406			0.00- 30.00	76.28
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1247390	50.0000	45.944	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1178551			64.48- 124.48	94.48
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1841544	50.0000	47.648	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	603368			2.76- 62.76	32.76
15.027	15.027 (1.002)	77	951302			21.66- 81.66	51.66
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1020265	50.0000	47.733	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2922036			0.00- 30.00	286.40
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1258721	50.0000	47.363	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2325446			0.00- 30.00	184.75
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1145430	50.0000	46.102	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2250453			166.47- 226.47	196.47
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1896678	50.0000	47.385	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	809266			12.67- 72.67	42.67
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1249104	50.0000	54.315	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	642412			21.43- 81.43	51.43
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1539193	50.0000	42.045	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	999283			34.92- 94.92	64.92
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3504073	50.0000	46.642	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1134006			2.36- 62.36	32.36
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3134459	50.0000	46.887	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1623910			0.00- 30.00	51.81
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2657776	50.0000	47.375	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1385384			22.13- 82.13	52.13
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2119223	50.0000	54.402	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1356834			0.00- 30.00	64.03
17.764	17.764 (1.184)	111	716953			0.00- 30.00	33.83
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2543283	50.0000	51.845	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1591653			0.00- 30.00	62.58
17.847	17.847 (1.190)	111	925998			0.00- 30.00	36.41
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3061268	50.0000	55.463	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	704354			0.00- 30.00	23.01
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2209311	50.0000	55.292	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1413482			33.98- 93.98	63.98
18.206	18.206 (1.214)	111	745617			3.75- 63.75	33.75

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	1555569	50.0000	52.934	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1466680			64.29- 124.29	94.29
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1073734	50.0000	54.156	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	674093			32.78- 92.78	62.78
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3778689	50.0000	45.565	80.00- 120.00	100.00
16.851	16.851 (1.123)	120	987387			0.00- 30.00	26.13
16.824	16.824 (1.122)	105	142609			0.00- 30.00	3.77
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3418145	50.0000	45.850	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	984860			0.00- 30.00	28.81
16.326	16.326 (1.088)	51	365648			0.00- 30.00	10.70
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4862872	50.0000	51.656	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	590693			0.00- 30.00	12.15
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.692)	59	919855	50.0000	39.565	80.00- 120.00	100.00
5.598	5.598 (0.692)	41	276491			0.00- 30.00	30.06
5.598	5.598 (0.692)	57	91145			0.00- 30.00	9.91
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.333)	58	288830	50.0000	45.724	80.00- 120.00	100.00
2.695	2.695 (0.333)	43	2188359			0.00- 30.00	757.66
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.426)	43	1673436	50.0000	42.746	80.00- 120.00	100.00
3.441	3.441 (0.426)	57	1036851			0.00- 30.00	61.96
3.441	3.441 (0.426)	72	109822			0.00- 30.00	6.56
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	1234354	50.0000	41.521	80.00- 120.00	100.00
10.575	10.575 (1.064)	98	637636			0.00- 30.00	51.66
10.575	10.575 (1.064)	55	1139494			0.00- 30.00	92.32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052702.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 27-MAY-2008
Calibration Time: 07:51
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	312772	187663	437881	312772	0.00
92 1,4-Difluorobenze	1084143	650486	1517800	1084143	0.00
125 Chlorobenzene-d5	954976	572986	1336966	954976	0.00

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

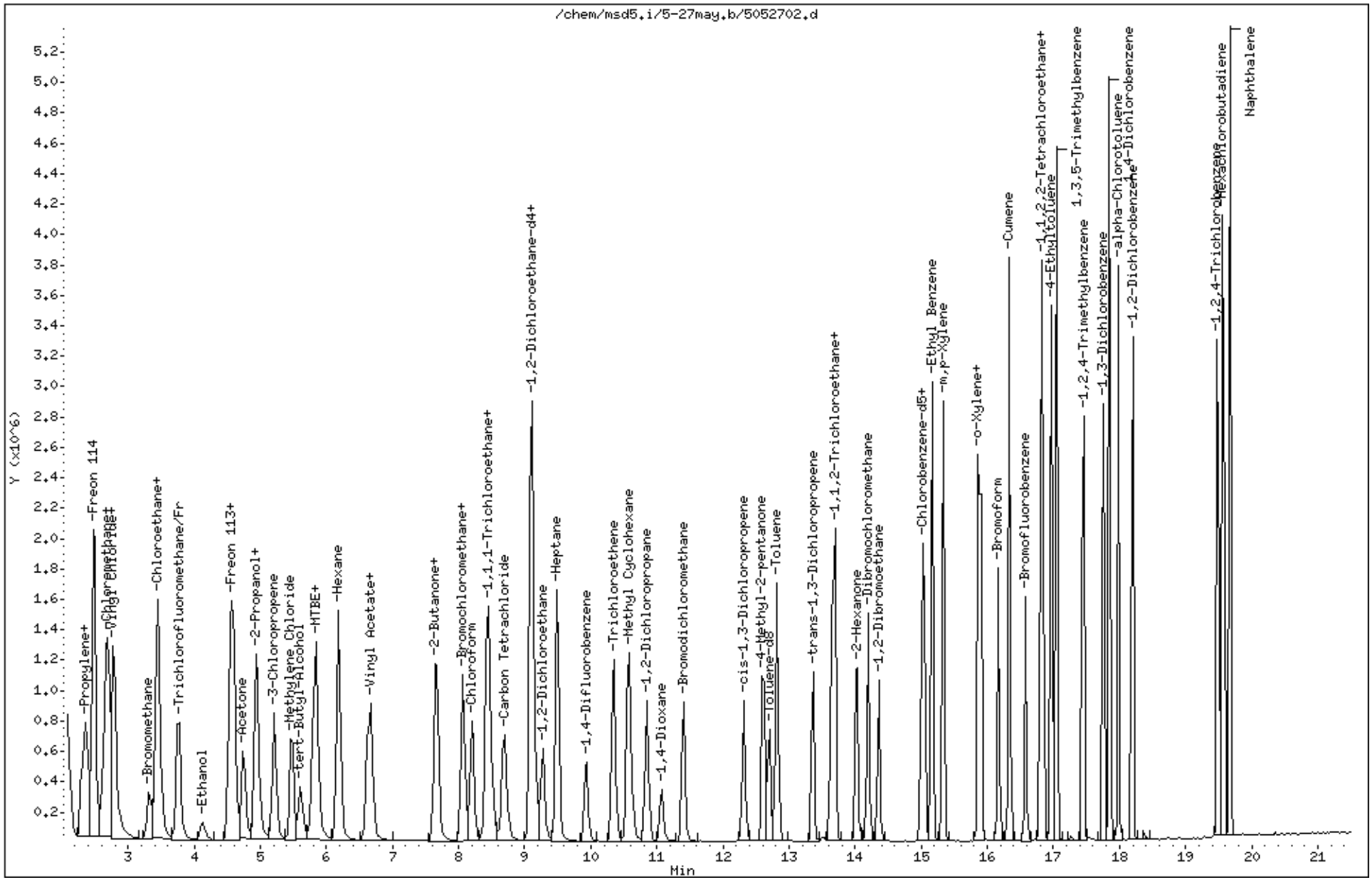
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-27may.b/5052702.d
Date : 27-MAY-2008 07:51
Client ID: CCV-1
Sample Info: 50mL #1612-5

Instrument: msd5.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



0174

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805378-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/08 08:18 AM**

Compound	%Recovery
Freon 12	80
Freon 114	112
Vinyl Chloride	98
Bromomethane	120
Chloroethane	97
Freon 11	87
1,1-Dichloroethene	90
Freon 113	118
Methylene Chloride	82
1,1-Dichloroethane	79
cis-1,2-Dichloroethene	77
Chloroform	72
1,1,1-Trichloroethane	74
Carbon Tetrachloride	79
Benzene	80
1,2-Dichloroethane	88
Trichloroethene	82
1,2-Dichloropropane	77
cis-1,3-Dichloropropene	80
Toluene	86
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	88
Tetrachloroethene	107
1,2-Dibromoethane (EDB)	85
Chlorobenzene	93
Ethyl Benzene	91
m,p-Xylene	91
o-Xylene	92
Styrene	90
1,1,2,2-Tetrachloroethane	82
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	100
1,3-Butadiene	86
Hexane	78
Cyclohexane	80

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805378-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5052703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/08 08:18 AM**	

Compound	%Recovery
Heptane	92
Bromodichloromethane	86
Dibromochloromethane	99
Cumene	92
Propylbenzene	91
Chloromethane	81
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	99
Acetone	80
Carbon Disulfide	94
2-Propanol	77
trans-1,2-Dichloroethene	95
2-Butanone (Methyl Ethyl Ketone)	83
Tetrahydrofuran	64
1,4-Dioxane	78
4-Methyl-2-pentanone	83
2-Hexanone	79
Bromoform	105
4-Ethyltoluene	95
Ethanol	84
Methyl tert-butyl ether	111
3-Chloropropene	94
2,2,4-Trimethylpentane	69
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	112	70-130

Report Date: 27-May-2008 08:30

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-27may
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: AT08.sub
Method File: /var/chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	40.174	80.35	70-130
9 Freon 114	50.000	55.845	111.69	70-130
10 Chloromethane	50.000	40.556	81.11	70-130
13 Vinyl Chloride	50.000	49.222	98.44	70-130
12 1,3-Butadiene	50.000	42.998	86.00	60-140
15 Bromomethane	50.000	60.250	120.50	70-130
19 Chloroethane	50.000	48.685	97.37	70-130
20 Trichlorofluoromet	50.000	43.549	87.10	70-130
26 Ethanol	50.000	42.136	84.27	60-140
30 Freon 113	50.000	58.935	117.87	70-130
31 1,1-Dichloroethene	50.000	45.000	90.00	70-130
35 Carbon Disulfide	50.000	46.890	93.78	60-140
32 Acetone	50.000	39.994	79.99	60-140
36 2-Propanol	50.000	38.566	77.13	60-140
38 3-Chloropropene	50.000	46.810	93.62	60-140
43 Methylene Chloride	50.000	41.122	82.24	70-130
46 MTBE	50.000	55.566	111.13	60-140
47 trans-1,2-Dichloro	50.000	47.423	94.85	60-140
51 Hexane	50.000	39.178	78.36	60-140
55 1,1-Dichloroethane	50.000	39.506	79.01	70-130
66 cis-1,2-Dichloroet	50.000	38.447	76.89	70-130
67 2-Butanone	50.000	41.345	82.69	60-140
70 Tetrahydrofuran	50.000	32.127	64.25	60-140
72 Chloroform	50.000	36.147	72.29	70-130
74 Cyclohexane	50.000	39.826	79.65	60-140
75 1,1,1-Trichloroeth	50.000	37.147	74.29	70-130
56 Vinyl Acetate	50.000	44.331	88.66	60-140
77 Carbon Tetrachlori	50.000	39.346	78.69	70-130
80 2,2,4-Trimethylpen	50.000	34.676	69.35	60-140
81 Benzene	50.000	40.139	80.28	70-130
85 1,2-Dichloroethane	50.000	44.135	88.27	70-130
90 Heptane	50.000	46.019	92.04	60-140
93 Trichloroethene	50.000	41.125	82.25	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	38.525	77.05	70-130
99 1,4-Dioxane	50.000	38.924	77.85	60-140
100 Bromodichlorometha	50.000	43.165	86.33	60-140
103 cis-1,3-Dichloropr	50.000	39.789	79.58	70-130
106 4-Methyl-2-pentano	50.000	41.682	83.36	60-140
108 Toluene	50.000	43.114	86.23	70-130
113 trans-1,3-Dichloro	50.000	45.512	91.02	70-130
114 1,1,2-Trichloroeth	50.000	44.131	88.26	70-130
116 Tetrachloroethene	50.000	53.303	106.61	70-130
119 2-Hexanone	50.000	39.727	79.45	60-140
120 Dibromochlorometha	50.000	49.660	99.32	60-140
122 1,2-Dibromoethane	50.000	42.607	85.21	70-130
126 Chlorobenzene	50.000	46.317	92.63	70-130
128 Ethyl Benzene	50.000	45.474	90.95	70-130
130 m,p-Xylene	50.000	45.373	90.75	70-130
132 o-Xylene	50.000	45.982	91.96	70-130
133 Styrene	50.000	45.173	90.35	70-130
134 Bromoform	50.000	52.496	104.99	60-140
136 Cumene	50.000	46.111	92.22	60-140
141 1,1,2,2-Tetrachlor	50.000	41.179	82.36	70-130
142 Propylbenzene	50.000	45.497	90.99	60-140
144 4-Ethyltoluene	50.000	47.558	95.12	60-140
147 1,3,5-Trimethylben	50.000	45.976	91.95	70-130
152 1,2,4-Trimethylben	50.000	45.243	90.49	70-130
155 1,3-Dichlorobenzen	50.000	51.464	102.93	70-130
156 1,4-Dichlorobenzen	50.000	49.589	99.18	70-130
157 alpha-Chlorotoluen	50.000	52.286	104.57	70-130
159 1,2-Dichlorobenzen	50.000	50.160	100.32	70-130
163 1,2,4-Trichloroben	50.000	50.502	101.00	70-130
164 Hexachlorobutadien	50.000	49.449	98.90	70-130
6 Propylene	50.000	41.367	82.73	70-130
165 Naphthalene	50.000	56.046	112.09	60-140
11 Butane	50.000	44.305	88.61	70-130
17 Isopentane	50.000	40.614	81.23	70-130
94 Methyl Cyclohexane	50.000	41.144	82.29	70-130
37 tert-Butyl-Alcohol	50.000	35.958	71.92	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.036	80.14	70-130
$ 107 Toluene-d8	25.000	23.338	93.35	70-130
$ 138 Bromofluorobenzene	25.000	28.091	112.37	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27may.b/5052703.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 27-MAY-2008 08:18
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1576-338
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-27may.b/t14q424b.m
Meth Date : 27-May-2008 08:05 sscott Quant Type: ISTD
Cal Date : 15-MAY-2008 11:25 Cal File: 5051507.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.087 (1.000)	130	235586	25.0000		80.00- 120.00	100.00
8.059	8.087 (1.000)	128	181222			45.02- 105.02	76.92
8.059	8.059 (1.000)	49	364200			114.95- 174.95	154.59
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	847698	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	121752			0.00- 43.32	14.36
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	767667	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	353207			0.00- 30.00	46.01
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	239582	20.0356	20.036	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	137409			30.69- 90.69	57.35
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	751806	23.3382	23.338	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	69142			0.00- 39.37	9.20

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	520591			37.11- 97.11	69.25
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	523620	28.0913	28.091	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	575911			82.22- 142.22	109.99
16.575	16.575 (1.105)	176	515801			67.35- 127.35	98.51
6 Propylene					CAS #: 115-07-1		
2.280	2.308 (0.283)	41	756132	41.3669	41.367	80.00- 120.00	100.00
2.280	2.308 (0.283)	42	501250			0.00- 30.00	66.29
2.280	2.308 (0.283)	39	514508			0.00- 30.00	68.04
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.363 (0.290)	85	1176144	40.1744	40.174	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	386064			0.00- 30.00	32.82
9 Freon 114					CAS #: 76-14-2		
2.474	2.501 (0.307)	135	1331833	55.8447	55.845	80.00- 120.00	100.00
2.474	2.501 (0.307)	137	428639			1.85- 61.85	32.18
10 Chloromethane					CAS #: 74-87-3		
2.584	2.612 (0.321)	50	892298	40.5557	40.556	80.00- 120.00	100.00
2.584	2.612 (0.321)	52	266140			0.00- 30.00	29.83
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.806 (0.345)	62	879236	49.2222	49.222	80.00- 120.00	100.00
2.750	2.806 (0.341)	64	275002			0.00- 30.00	31.28
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.778 (0.341)	54	759714	42.9982	42.998	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	868803			0.00- 30.00	114.36
15 Bromomethane					CAS #: 74-83-9		
3.276	3.303 (0.406)	94	601629	60.2504	60.250	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	561941			63.22- 123.22	93.40
19 Chloroethane					CAS #: 75-00-3		
3.414	3.441 (0.424)	64	431873	48.6850	48.685	80.00- 120.00	100.00
3.414	3.441 (0.424)	49	116297			0.00- 30.00	26.93
3.414	3.441 (0.424)	66	131591			0.00- 30.00	30.47
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.773 (0.461)	101	1300372	43.5491	43.549	80.00- 120.00	100.00
3.718	3.773 (0.461)	103	877070			35.50- 95.50	67.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.133 (0.509)	45	297244	42.1360	42.136	80.00- 120.00	100.00
4.077	4.133 (0.506)	43	62172			0.00- 30.00	20.92
4.105	4.133 (0.509)	46	121631			0.00- 30.00	40.92
30 Freon 113					CAS #: 76-13-1		
4.520	4.547 (0.561)	151	1084227	58.9353	58.935	80.00- 120.00	100.00
4.520	4.547 (0.561)	153	703411			33.66- 93.66	64.88
4.520	4.547 (0.561)	101	1359768			89.95- 149.95	125.41
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.603 (0.568)	61	1063242	45.0000	45.000	80.00- 120.00	100.00
4.575	4.603 (0.568)	96	716334			37.42- 97.42	67.37
4.575	4.603 (0.568)	98	461226			13.69- 73.69	43.38
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	361947	39.9937	39.994	80.00- 120.00	100.00
4.713	4.741 (0.585)	43	1133539			0.00- 30.00	313.18
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1318442	38.5660	38.566	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	302617			0.00- 30.00	22.95
4.935	4.962 (0.612)	59	43639			0.00- 30.00	3.31
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	1911902	46.8904	46.890	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.211 (0.643)	76	328313	46.8103	46.810	80.00- 120.00	100.00
5.183	5.211 (0.643)	41	1086142			0.00- 30.00	330.82
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	881684	41.1218	41.122	80.00- 120.00	100.00
5.460	5.488 (0.677)	84	597866			38.34- 98.34	67.81
5.460	5.460 (0.677)	51	269185			0.00- 30.00	30.53
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	1139008	55.5658	55.566	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	312494			0.00- 57.94	27.44
5.764	5.792 (0.715)	41	366264			0.00- 30.00	32.16
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.847 (0.722)	96	729840	47.4230	47.423	80.00- 120.00	100.00
5.819	5.847 (0.722)	61	952943			104.67- 164.67	130.57
5.819	5.847 (0.722)	98	456009			0.00- 30.00	62.48

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	6.179 (0.763)	57	1186020	39.1779	39.178	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	871337			0.00- 30.00	73.47
6.179	6.179 (0.767)	86	189992			0.00- 30.00	16.02
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.676 (0.825)	86	173966	44.3313	44.331	80.00- 120.00	100.00
6.649	6.676 (0.825)	43	1898637			0.00- 30.00	1091.38
6.649	6.676 (0.825)	42	150041			0.00- 30.00	86.25
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.621 (0.818)	63	1121621	39.5056	39.506	80.00- 120.00	100.00
6.594	6.621 (0.818)	65	330263			0.18- 60.18	29.45
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	286349	41.3448	41.345	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	1453213			473.49- 533.49	507.50
7.644	7.672 (0.949)	57	100100			0.00- 30.00	34.96
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.644 (0.945)	61	787963	38.4473	38.447	80.00- 120.00	100.00
7.617	7.644 (0.945)	96	647469			53.47- 113.47	82.17
7.617	7.644 (0.945)	98	416817			23.52- 83.52	52.90
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.059 (0.997)	42	847676	32.1275	32.127	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	246431			0.00- 58.64	29.07
8.031	8.059 (0.997)	72	278131			0.00- 30.00	32.81
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	982003	36.1471	36.147	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	653319			35.03- 95.03	66.53
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	937097	37.1470	37.147	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	599712			35.97- 95.97	64.00
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.446 (1.045)	84	797559	39.8256	39.826	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	1047849			100.86- 160.86	131.38
8.418	8.418 (1.045)	41	628253			48.13- 108.13	78.77
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.695 (1.075)	119	888569	39.3463	39.346	80.00- 120.00	100.00
8.667	8.695 (1.075)	117	919550			73.34- 133.34	103.49

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	3028768	34.6757	34.676	80.00- 120.00	100.00
9.082	9.110 (1.127)	56	980596			0.00- 30.00	32.38
9.082	9.110 (1.127)	41	834996			0.00- 30.00	27.57
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.916)	78	1706621	40.1393	40.139	80.00- 120.00	100.00
9.082	9.110 (0.916)	77	399840			0.00- 30.00	23.43
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.275 (0.936)	62	675277	44.1349	44.135	80.00- 120.00	100.00
9.276	9.275 (0.936)	64	210105			0.00- 30.00	31.11
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	213853	46.0189	46.019	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	1288224			0.00- 30.00	602.39
9.469	9.497 (0.955)	71	566218			0.00- 30.00	264.77
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.354 (1.042)	95	648337	41.1251	41.125	80.00- 120.00	100.00
10.326	10.354 (1.042)	130	750697			83.29- 143.29	115.79
10.326	10.354 (1.042)	97	433825			36.32- 96.32	66.91
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	541421	38.5249	38.525	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	375720			38.91- 98.91	69.40
10.852	10.852 (1.095)	41	404891			43.22- 103.22	74.78
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	362741	38.9239	38.924	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	280006			45.17- 105.17	77.19
11.073	11.073 (1.117)	57	86984			0.00- 30.00	23.98
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	888147	43.1653	43.165	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	578191			35.69- 95.69	65.10
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	640607	39.7892	39.789	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	208659			2.47- 62.47	32.57
12.317	12.317 (1.243)	39	469030			44.03- 104.03	73.22
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.621 (1.271)	58	470163	41.6818	41.682	80.00- 120.00	100.00
12.594	12.593 (1.271)	43	1401020			0.00- 30.00	297.99
12.594	12.621 (1.271)	85	182290			0.00- 30.00	38.77

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	1783057	43.1138	43.114	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1050373			28.57- 88.57	58.91
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	673089	45.5122	45.512	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	213423			2.30- 62.30	31.71
13.368	13.368 (0.891)	39	474069			39.50- 99.50	70.43
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	576082	44.1313	44.131	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	372573			33.32- 93.32	64.67
13.644	13.644 (0.910)	83	450698			47.87- 107.87	78.23
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	903426	53.3028	53.303	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	602842			37.86- 97.86	66.73
13.699	13.699 (0.913)	131	577287			34.52- 94.52	63.90
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.031 (0.934)	58	621262	39.7270	39.727	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	1398407			186.91- 246.91	225.09
14.031	14.031 (0.935)	100	133076			0.00- 30.00	21.42
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	957398	49.6605	49.660	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	737891			0.00- 30.00	77.07
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	929889	42.6066	42.607	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	884526			64.48- 124.48	95.12
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	1438988	46.3167	46.317	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	472274			2.76- 62.76	32.82
15.027	15.027 (1.002)	77	741596			21.66- 81.66	51.54
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	781325	45.4736	45.474	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	2265600			0.00- 30.00	289.97
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	969320	45.3732	45.373	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	1777157			0.00- 30.00	183.34
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	918377	45.9822	45.982	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	1779610			166.47- 226.47	193.78
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1453486	45.1726	45.173	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	619366			12.67- 72.67	42.61
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	970486	52.4965	52.496	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	500095			21.43- 81.43	51.53
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1211809	41.1792	41.179	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	805286			34.92- 94.92	66.45
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2872124	47.5584	47.558	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	933710			2.36- 62.36	32.51
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2470703	45.9762	45.976	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1290124			0.00- 30.00	52.22
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2040354	45.2434	45.243	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1049490			22.13- 82.13	51.44
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1611556	51.4641	51.464	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1028321			0.00- 30.00	63.81
17.764	17.764 (1.184)	111	540487			0.00- 30.00	33.54
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1955491	49.5895	49.589	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1246720			0.00- 30.00	63.75
17.847	17.847 (1.190)	111	692455			0.00- 30.00	35.41
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2319885	52.2862	52.286	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	555637			0.00- 30.00	23.95
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1611162	50.1606	50.160	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1033550			33.98- 93.98	64.15
18.206	18.206 (1.214)	111	552591			3.75- 63.75	34.30

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	1192996	50.5015	50.502	80.00- 120.00	100.00
19.478	19.506 (1.299)	182	1143185			64.29- 124.29	95.82
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.561	19.589 (1.304)	225	788106	49.4488	49.449	80.00- 120.00	100.00
19.561	19.589 (1.304)	223	509167			32.78- 92.78	64.61
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3032998	45.4973	45.497	80.00- 120.00	100.00
16.824	16.851 (1.122)	120	799762			0.00- 30.00	26.37
16.824	16.824 (1.122)	105	117920			0.00- 30.00	3.89
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2763318	46.1107	46.111	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	791430			0.00- 30.00	28.64
16.326	16.326 (1.088)	51	286809			0.00- 30.00	10.38
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4241217	56.0456	56.046	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	511829			0.00- 30.00	12.07
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.598 (0.691)	59	629680	35.9579	35.958	80.00- 120.00	100.00
5.571	5.598 (0.691)	41	184392			0.00- 30.00	29.28
5.571	5.598 (0.691)	57	60721			0.00- 30.00	9.64
11 Butane					CAS #: 106-97-8		
2.667	2.695 (0.331)	58	210802	44.3051	44.305	80.00- 120.00	100.00
2.667	2.695 (0.331)	43	1641274			0.00- 30.00	778.58
17 Isopentane					CAS #: 78-78-4		
3.414	3.441 (0.424)	43	1197585	40.6139	40.614	80.00- 120.00	100.00
3.414	3.441 (0.424)	57	724296			0.00- 30.00	60.48
3.414	3.441 (0.424)	72	76050			0.00- 30.00	6.35
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	956390	41.1445	41.144	80.00- 120.00	100.00
10.575	10.575 (1.067)	98	489894			0.00- 30.00	51.22
10.547	10.575 (1.064)	55	868370			0.00- 30.00	90.80

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052703.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-27may.b/t14q424b.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 27-MAY-2008
Calibration Time: 07:51
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	312772	187663	437881	235586	-24.68
92 1,4-Difluorobenze	1084143	650486	1517800	847698	-21.81
125 Chlorobenzene-d5	954976	572986	1336966	767667	-19.61

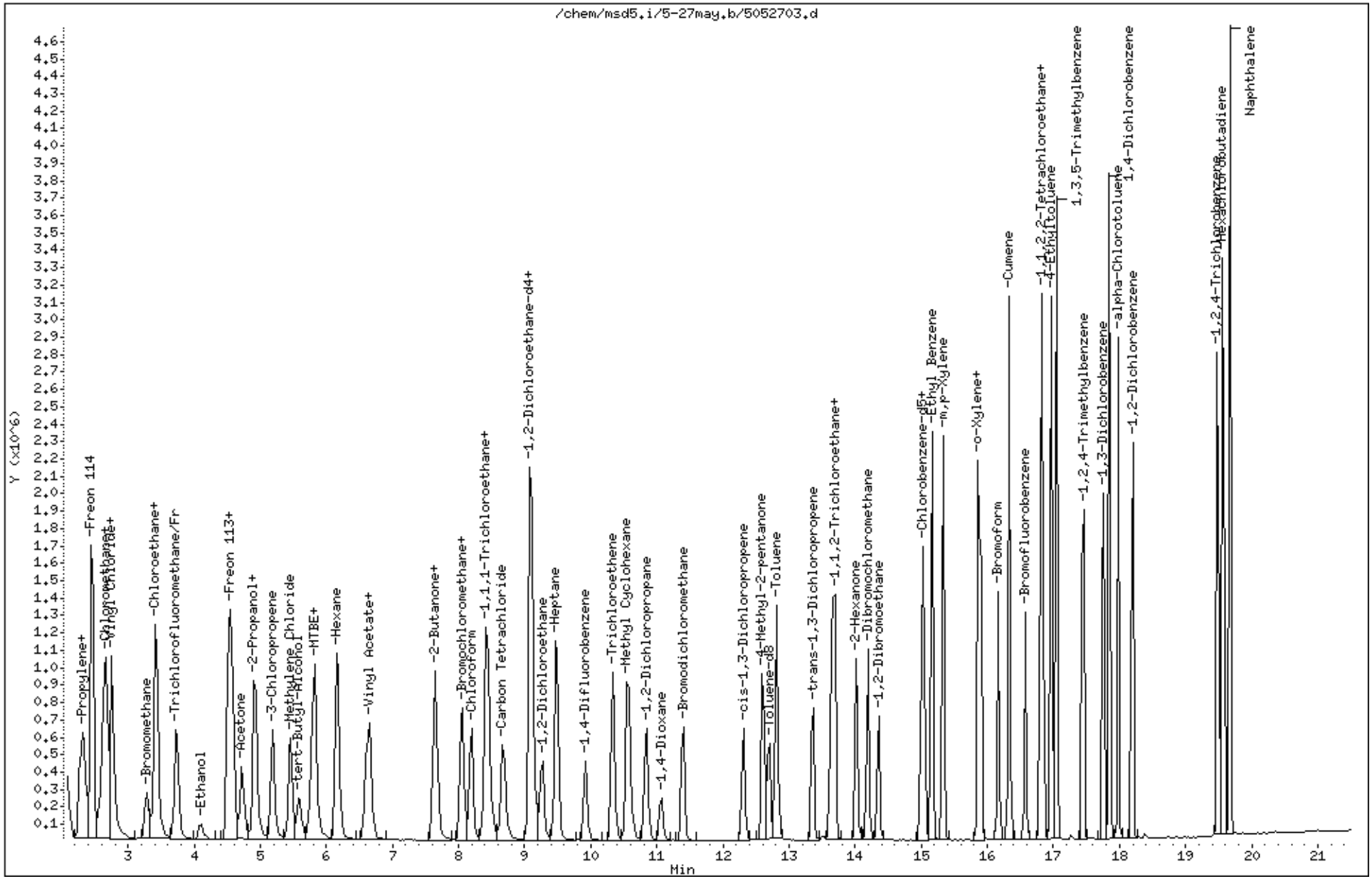
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.09	7.76	8.42	8.06	-0.34
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd5.i/5-27may.b/5052703.d
Date : 27-MAY-2008 08:18
Client ID: LCS-1
Sample Info: 50mL #1576-338

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

Column phase: RTx-624



0189

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

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	24.93
75	30.0 – 60.0% of mass 95	41.93
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.17
173	Less than 2.0% of mass 174	(0.78)[1]
174	Greater than 50.0% of mass 95	89.18
175	5.0 – 9.0% of mass 174	(7.04)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.35)[1]
177	5.0 – 9.0% of mass 176	(6.28)[2]

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

BFB Injection Date: 5/27/98
BFB Injection Time: 0730
BFB File ID: 5052701
Tekmar Purge Flow: 13.5 ml/min
Vacuum: 6.44×10⁻⁶

IS/S Std.#:	1541-177	Exp. Date: 8/12/98
BCM	312772	
1,4-DFB	1084143	
CB-d5	954976	

Verified CCV IS vs ICAL mid-point (- 40%D) SS 5/27/98 *initials*

Verify 176/174 m/z Ratio: (944448 / 950288) × 100 = 99.38 96.344 SS 5/27/98

NOAH Cart #: 15/8 **File #:** 5052704/5052707

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 916721\ )}{(\ 1084143\ )} \times \frac{(\ 25.000\ )}{(\ 0.950029\ )} =$ 22.2512

File ID:	5052702
Compound:	Tetrachloroethene
Initials:	SMS

Reported Result 22.251

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5052701	BFB Tune Check	4478-179	50psig	20µl	1.00	5/27/98	0730	SMS	
2	✓	02	1612-5 20ppbv	CCV-1	50psig	5ml	1.00		0751	SMS	
3	✓	03	1576338 20ppbv	LCS-1	50psig	50ml	1.00		0818	SMS	
4	✓	04	↓	LCSD	↓	↓	↓		0942	SMS	
5	X	05	Lab Blank	12941	Humid	200ml	1.00		1047	SMS	Cart#8/Leg#1
6	✓	06	Lab Blank	12941	Humid	200ml	1.00		1155	SMS	Cart#11/Leg#8
7	✓	07	Cart#8/Leg#1	12941	Humid	200ml	1.00		1242	SMS	
8	✓	08	0505344A-01A	4360	0.5%-5psig	1ml	276		1354	SMS	
9	✓	09	0505344A-01A	4360	0.5%-5psig	200ml	1.36	↓	1440	KR	

Signature

5/27/98
Date

0190

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	5052710	0805346 - 01A	5719	0.0"Hg-5psi	200mL	1.34	5/27/08	1513	KR		
11	X	11	" -02A	5773	0.0"Hg	1.0mL	2.08		1541	KR	RR 0.7mL	
12	X	12	0805350 - 01A	34469	2.0"Hg	200mL	1.44		1614	KR	RR 25mL	discontinue 5/28/08
13	X	13	" -02A	10789	2.5"Hg	13.5mL	21.6		1642	KR	RR 40mL	
14	✓	14	0805378 - 01A	34758	0.4psi	200mL	1.30		1721	KR	chloromethane ND	
15	✓	15	" -02A	33996	6.0"Hg	"	1.68		1754	KR		
16	✓	16	" -03A	9610S	4.0"Hg	"	1.55		1827	KR		
17	✓	17	0805346 - 02A	5773	0.0"Hg	0.7mL	3.83		2004	KR		
18	✓	18	0805350 - 01A	34469	2.0"Hg	25mL	1.65		2031	KR		
19	✓	19	" - 02A	10789	2.5"Hg	40mL	2.30		2059	KR		
20	✓	20	0805377 - 01A	31139	5.0"Hg	200mL	1.61		2207	CB		
21	✓	21	" -03A	05703	5.5"Hg	"	1.64		2240	CB		
22	✓	22	" -02A	3778	5.5"Hg	"	1.64		2313	CB		
23	✓	23	" -04A	94941	5.0"Hg	"	1.61	✓	~~0014~~ 2346	CB		
24	✓	24	0805441A - 02A	36031	7.0"Hg	"	1.75	5/28/08	0019	CB		
25	✓	25	0805440 - 01A	34739	7.5"Hg	"	1.79		0052	CB		
26	✓	26	" -01AA	↓	↓	"	↓		0124	CB		
27	✓	27	" -02A	41185	7.0"Hg	"	1.75		0157	CB		
28	✓	28	0805357 - 01A	31778	0.5"Hg-15psi	"	2.05		0230	CB		
29												
30												
31												
32												

5/28/08

Comments:

Signature

5/28/08
Date

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-24apr.b/5042412.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-APR-2008 13:23
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-279 50 ng
Comment :
Method : /var/chem/msd5.i/5-24apr.b/bfb30.m
Meth Date : 24-Apr-2008 13:12 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	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.803	3.900	-0.097	95	1236184			100.00- 100.00	100.00
3.803	3.900	-0.097	50	290786			15.00- 40.00	23.52
3.803	3.900	-0.097	75	512259			30.00- 60.00	41.44
3.803	3.900	-0.097	96	78390			5.00- 9.00	6.34
3.803	3.900	-0.097	173	6418			0.00- 2.00	0.65
3.803	3.900	-0.097	174	991924			50.00- 100.00	80.24
3.803	3.900	-0.097	175	69740			5.00- 9.00	7.03
3.803	3.900	-0.097	176	952447			95.00- 101.00	96.02
3.803	3.900	-0.097	177	59357			5.00- 9.00	6.23

Data File: /var/chem/msd5.i/5-24apr.b/5042412.d

Date : 24-APR-2008 13:23

Client ID: BFB

Instrument: msd5.i

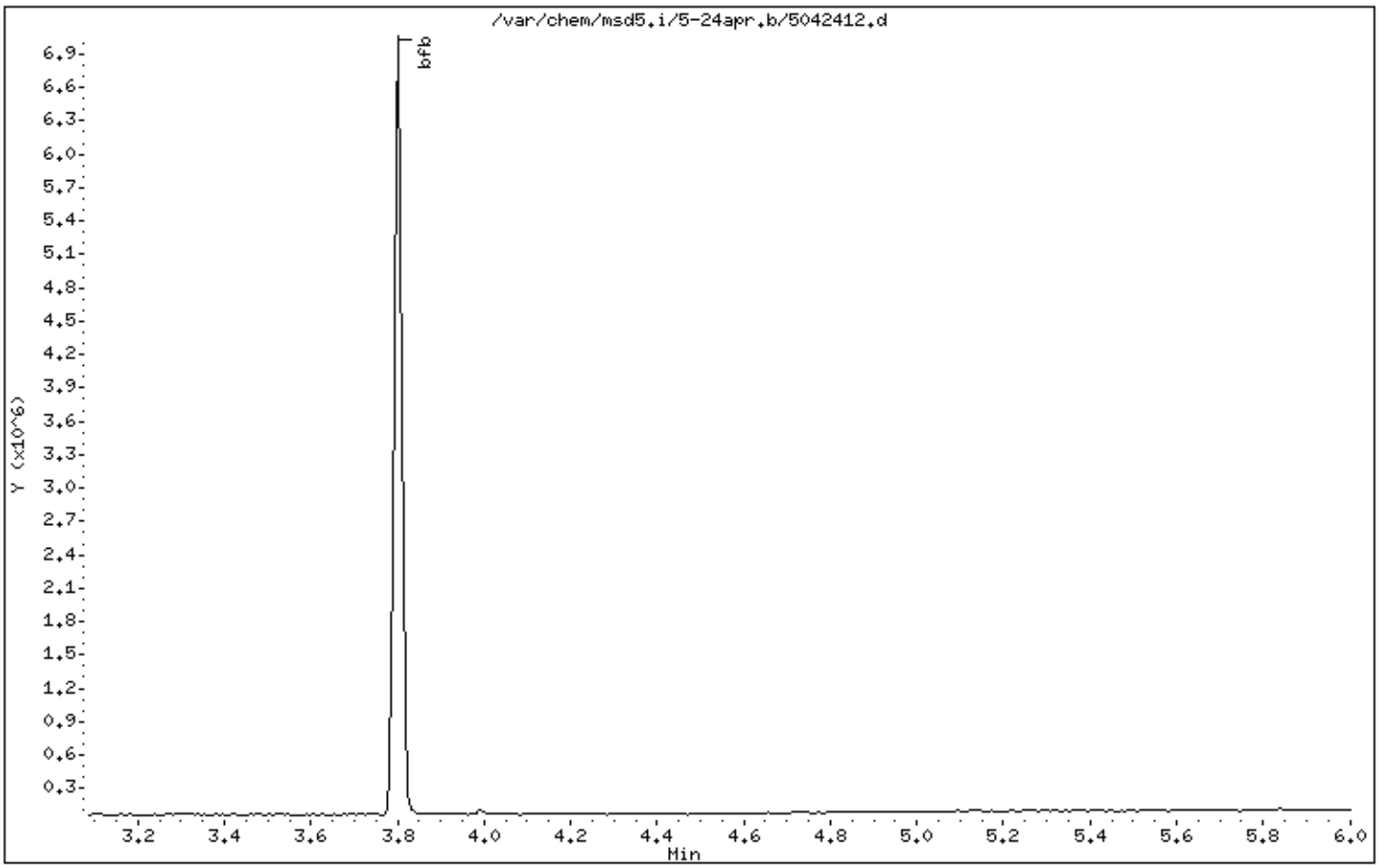
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-24apr.b/5042412.d

Date : 24-APR-2008 13:23

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

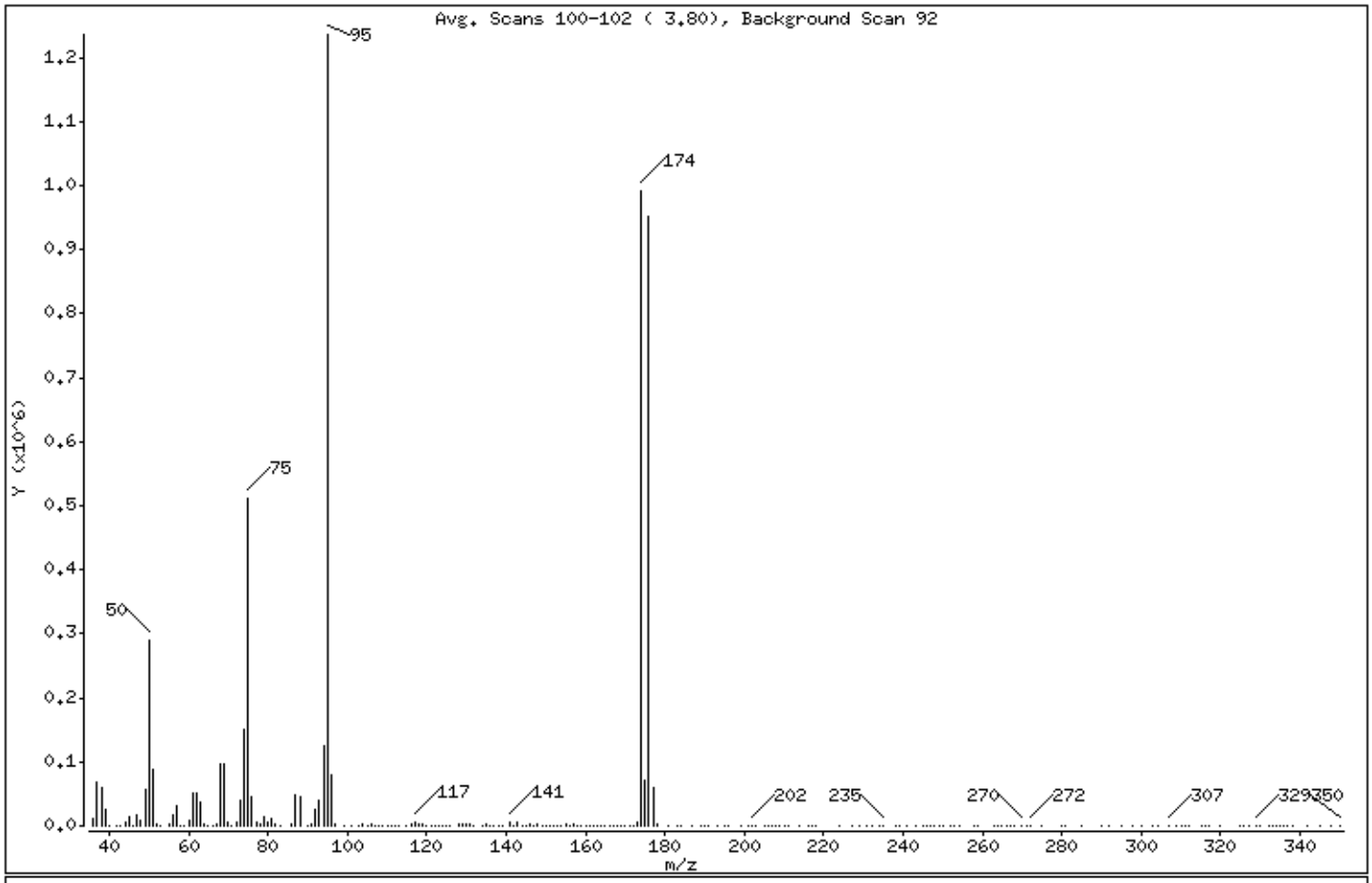
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.52
75	30.00 - 60.00% of mass 95	41.44
96	5.00 - 9.00% of mass 95	6.34
173	Less than 2.00% of mass 174	0.52 (0.65)
174	50.00 - 100.00% of mass 95	80.24
175	5.00 - 9.00% of mass 174	5.64 (7.03)
176	95.00 - 101.00% of mass 174	77.05 (96.02)
177	5.00 - 9.00% of mass 176	4.80 (6.23)

Date : 24-APR-2008 13:23

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5042412.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11260	97.00	1891	160.00	105	246.00	316
37.00	66904	99.00	127	161.00	540	247.00	111
38.00	60528	101.00	187	162.00	37	248.00	97
39.00	26368	103.00	128	163.00	155	249.00	186
40.00	615	104.00	2500	164.00	289	250.00	147
42.00	377	105.00	1058	165.00	419	252.00	178
43.00	142	106.00	2727	166.00	399	253.00	85
44.00	6663	107.00	455	167.00	533	254.00	121
45.00	12954	108.00	12	168.00	76	258.00	166
46.00	1002	109.00	272	169.00	691	259.00	125
47.00	16984	110.00	552	170.00	468	263.00	212
48.00	7635	111.00	586	171.00	246	264.00	107
49.00	57752	112.00	321	172.00	1340	265.00	52
50.00	290752	113.00	491	173.00	6418	266.00	68
51.00	87024	115.00	1287	174.00	991872	267.00	253
52.00	2833	116.00	2516	175.00	69736	268.00	79
53.00	12	117.00	4810	176.00	952384	270.00	394
55.00	2647	118.00	3530	177.00	59352	271.00	160
56.00	15731	119.00	3426	178.00	2119	272.00	154
57.00	31752	120.00	373	181.00	71	275.00	61
58.00	925	121.00	403	183.00	458	280.00	112
59.00	455	122.00	3	184.00	98	281.00	61
60.00	8750	123.00	34	187.00	138	285.00	68
61.00	50472	124.00	1046	189.00	323	290.00	59
62.00	50696	125.00	73	190.00	57	292.00	31
63.00	35912	126.00	148	191.00	155	295.00	58
64.00	2593	128.00	3251	193.00	199	298.00	149
65.00	544	129.00	1866	195.00	60	300.00	57
66.00	371	130.00	3165	196.00	221	303.00	32
67.00	2620	131.00	1667	199.00	148	304.00	4
68.00	96080	132.00	74	201.00	84	307.00	288
69.00	95880	134.00	32	202.00	320	309.00	67
70.00	6660	135.00	1560	203.00	288	310.00	179
71.00	521	136.00	387	205.00	228	311.00	282
72.00	5181	137.00	1134	206.00	53	312.00	160

Date : 24-APR-2008 13:23

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5042412.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	39176	138.00	76	207.00	300	315.00	111
74.00	150592	139.00	542	208.00	89	316.00	10
75.00	512256	141.00	6323	209.00	124	317.00	50
76.00	44928	142.00	845	210.00	240	320.00	4
77.00	6391	143.00	5708	211.00	88	325.00	81
78.00	2856	144.00	541	214.00	274	326.00	161
79.00	14514	145.00	399	216.00	58	327.00	190
80.00	4693	146.00	1829	217.00	254	329.00	392
81.00	12705	147.00	1033	218.00	99	330.00	228
82.00	3160	148.00	2525	224.00	74	332.00	90
83.00	487	149.00	885	227.00	66	333.00	107
86.00	1916	150.00	881	229.00	92	334.00	67
87.00	47136	151.00	325	231.00	70	335.00	140
88.00	44416	152.00	305	232.00	149	336.00	81
90.00	52	153.00	735	234.00	172	337.00	19
91.00	2621	154.00	273	235.00	228	338.00	83
92.00	25008	155.00	2711	238.00	123	342.00	105
93.00	40080	156.00	577	239.00	140	345.00	111
94.00	126424	157.00	1619	241.00	170	348.00	327
95.00	1235968	158.00	65	243.00	184	350.00	115
96.00	78384	159.00	1362	245.00	165		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-15may.b/5051501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 15-MAY-2008 08:13
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-279 50 ng
Comment :
Method : /var/chem/msd5.i/5-15may.b/bfb30.m
Meth Date : 15-May-2008 08:01 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.803	3.900	-0.097	95	886528			100.00- 100.00	100.00
3.803	3.900	-0.097	50	234363			15.00- 40.00	26.44
3.803	3.900	-0.097	75	378157			30.00- 60.00	42.66
3.803	3.900	-0.097	96	57370			5.00- 9.00	6.47
3.803	3.900	-0.097	173	4264			0.00- 2.00	0.56
3.803	3.900	-0.097	174	767071			50.00- 100.00	86.53
3.803	3.900	-0.097	175	52073			5.00- 9.00	6.79
3.803	3.900	-0.097	176	735018			95.00- 101.00	95.82
3.803	3.900	-0.097	177	50165			5.00- 9.00	6.83

Data File: /var/chem/msd5.i/5-15may.b/5051501.d

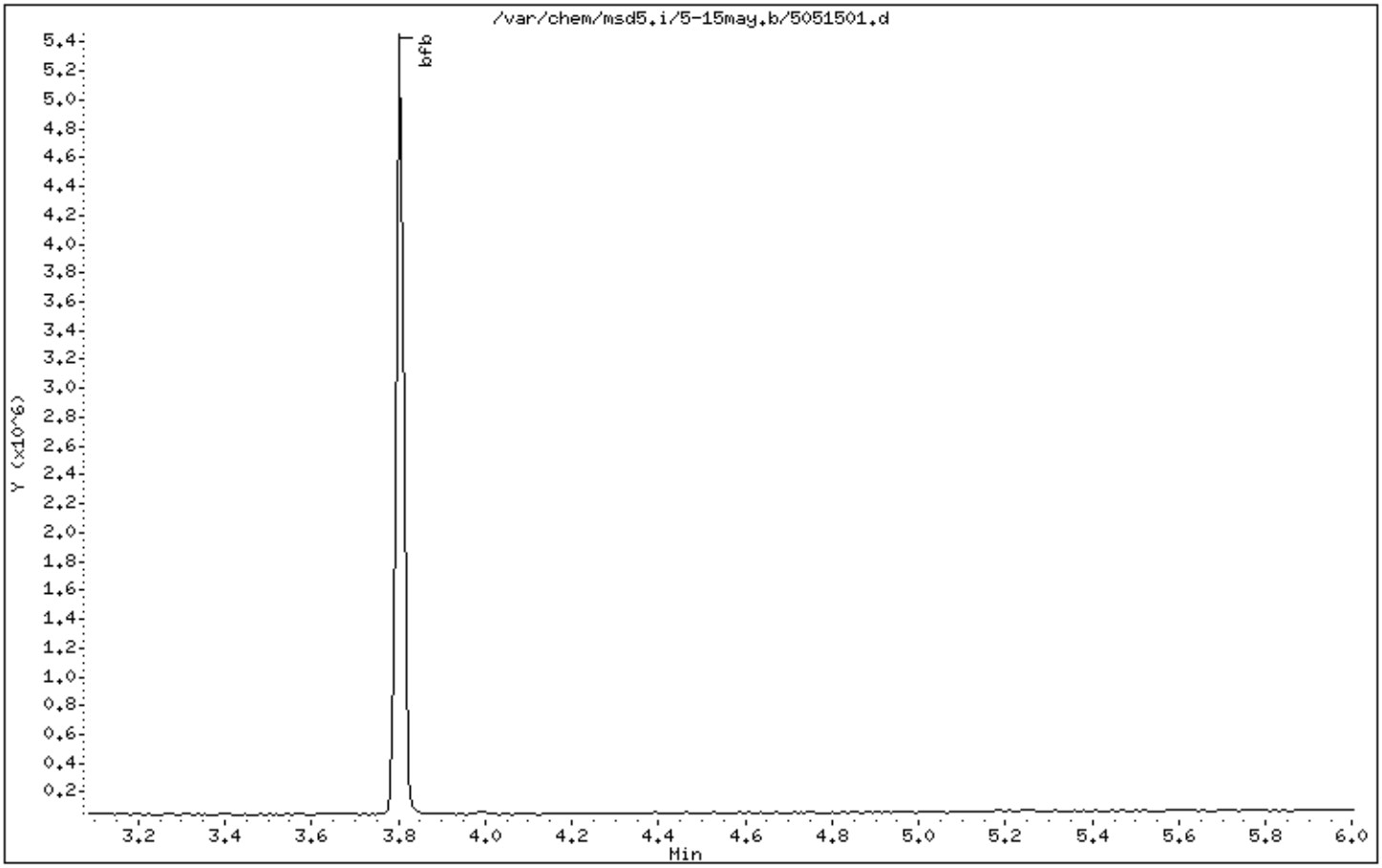
Date : 15-MAY-2008 08:13

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00



Data File: /var/chem/msd5.i/5-15may.b/5051501.d

Date : 15-MAY-2008 08:13

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

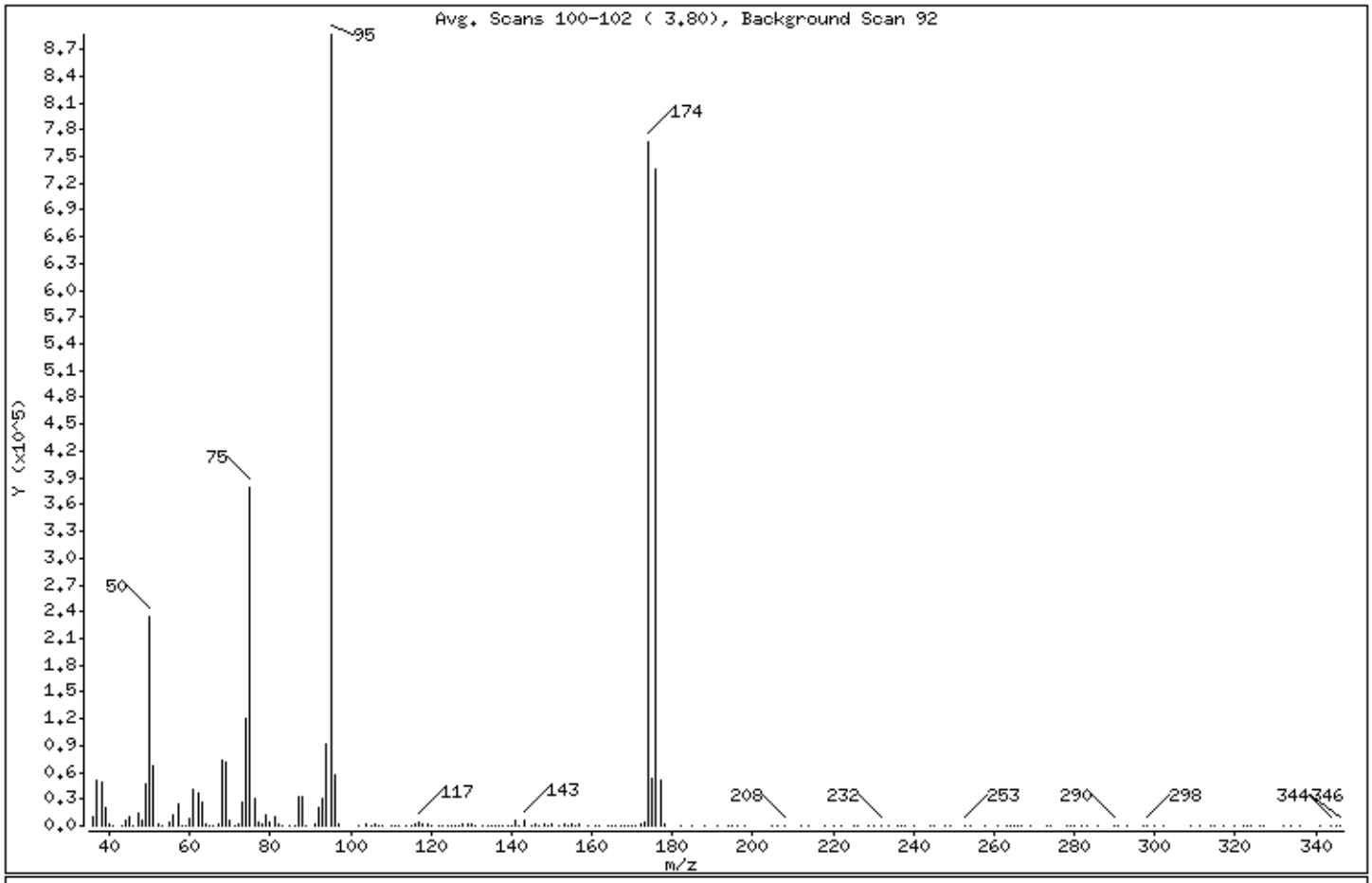
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.44
75	30.00 - 60.00% of mass 95	42.66
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.48 (0.56)
174	50.00 - 100.00% of mass 95	86.53
175	5.00 - 9.00% of mass 174	5.87 (6.79)
176	95.00 - 101.00% of mass 174	82.91 (95.82)
177	5.00 - 9.00% of mass 176	5.66 (6.83)

Date : 15-MAY-2008 08:13

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5051501.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9230	89.00	712	150.00	1127	240.00	78
37.00	51288	91.00	1684	152.00	641	244.00	68
38.00	49744	92.00	20760	153.00	1120	245.00	137
39.00	19568	93.00	30752	154.00	805	248.00	273
40.00	1128	94.00	90840	155.00	1716	249.00	106
41.00	197	95.00	886528	156.00	513	253.00	394
43.00	397	96.00	57368	157.00	1988	254.00	215
44.00	5771	97.00	1568	159.00	507	258.00	116
45.00	9511	102.00	102	161.00	726	261.00	65
46.00	766	104.00	2541	162.00	133	263.00	285
47.00	13381	105.00	340	164.00	134	264.00	128
48.00	5511	106.00	2833	165.00	296	265.00	246
49.00	46704	107.00	797	166.00	239	266.00	224
50.00	234304	108.00	180	167.00	331	267.00	106
51.00	66856	110.00	538	168.00	380	269.00	145
52.00	2800	111.00	195	169.00	706	273.00	81
53.00	81	112.00	552	170.00	733	274.00	162
55.00	3156	114.00	73	171.00	705	278.00	118
56.00	13203	115.00	542	172.00	1594	279.00	110
57.00	24112	116.00	1699	173.00	4264	280.00	72
58.00	765	117.00	3656	174.00	767040	282.00	109
59.00	130	118.00	1751	175.00	52072	283.00	89
60.00	7183	119.00	2656	176.00	734976	286.00	103
61.00	39744	120.00	258	177.00	50160	290.00	249
62.00	37448	122.00	202	178.00	1527	291.00	170
63.00	27232	123.00	288	182.00	89	293.00	136
64.00	2688	124.00	456	185.00	128	297.00	56
65.00	711	125.00	329	188.00	174	298.00	228
66.00	143	126.00	410	191.00	340	300.00	68
67.00	1683	127.00	451	194.00	88	302.00	62
68.00	72568	128.00	1735	195.00	317	309.00	160
69.00	71024	129.00	1816	196.00	61	311.00	102
70.00	6146	130.00	2788	198.00	60	314.00	58
71.00	288	131.00	594	205.00	86	315.00	77
72.00	2717	133.00	22	206.00	269	317.00	62

Data File: /var/chem/msd5.i/5-15may.b/5051501.d

Date : 15-MAY-2008 08:13

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

Data File: 5051501.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	26120	134.00	131	208.00	433	320.00	72
74.00	119256	135.00	883	212.00	52	322.00	52
75.00	378112	136.00	614	214.00	248	323.00	66
76.00	30424	137.00	699	218.00	129	324.00	270
77.00	4457	138.00	214	220.00	224	326.00	86
78.00	2650	139.00	267	222.00	61	327.00	188
79.00	12266	140.00	539	225.00	81	332.00	162
80.00	3726	141.00	5218	226.00	62	334.00	251
81.00	9666	142.00	862	229.00	112	336.00	92
82.00	1900	143.00	5549	230.00	119	341.00	133
83.00	667	145.00	304	232.00	235	344.00	438
85.00	163	146.00	2044	234.00	115	345.00	161
86.00	405	147.00	331	236.00	231	346.00	80
87.00	32616	148.00	1317	237.00	58		
88.00	32624	149.00	416	238.00	56		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-27may.b/5052701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 27-MAY-2008 07:30
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-279 50 ng
Comment :
Method : /var/chem/msd5.i/5-27may.b/bfb30.m
Meth Date : 27-May-2008 07:18 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.803	3.900	-0.097	95	1099266			100.00- 100.00	100.00
3.803	3.900	-0.097	50	274026			15.00- 40.00	24.93
3.803	3.900	-0.097	75	460970			30.00- 60.00	41.93
3.803	3.900	-0.097	96	67870			5.00- 9.00	6.17
3.803	3.900	-0.097	173	7665			0.00- 2.00	0.78
3.803	3.900	-0.097	174	980300			50.00- 100.00	89.18
3.803	3.900	-0.097	175	68973			5.00- 9.00	7.04
3.803	3.900	-0.097	176	944482			95.00- 101.00	96.35
3.803	3.900	-0.097	177	59170			5.00- 9.00	6.26

Data File: /var/chem/msd5.i/5-27may.b/5052701.d

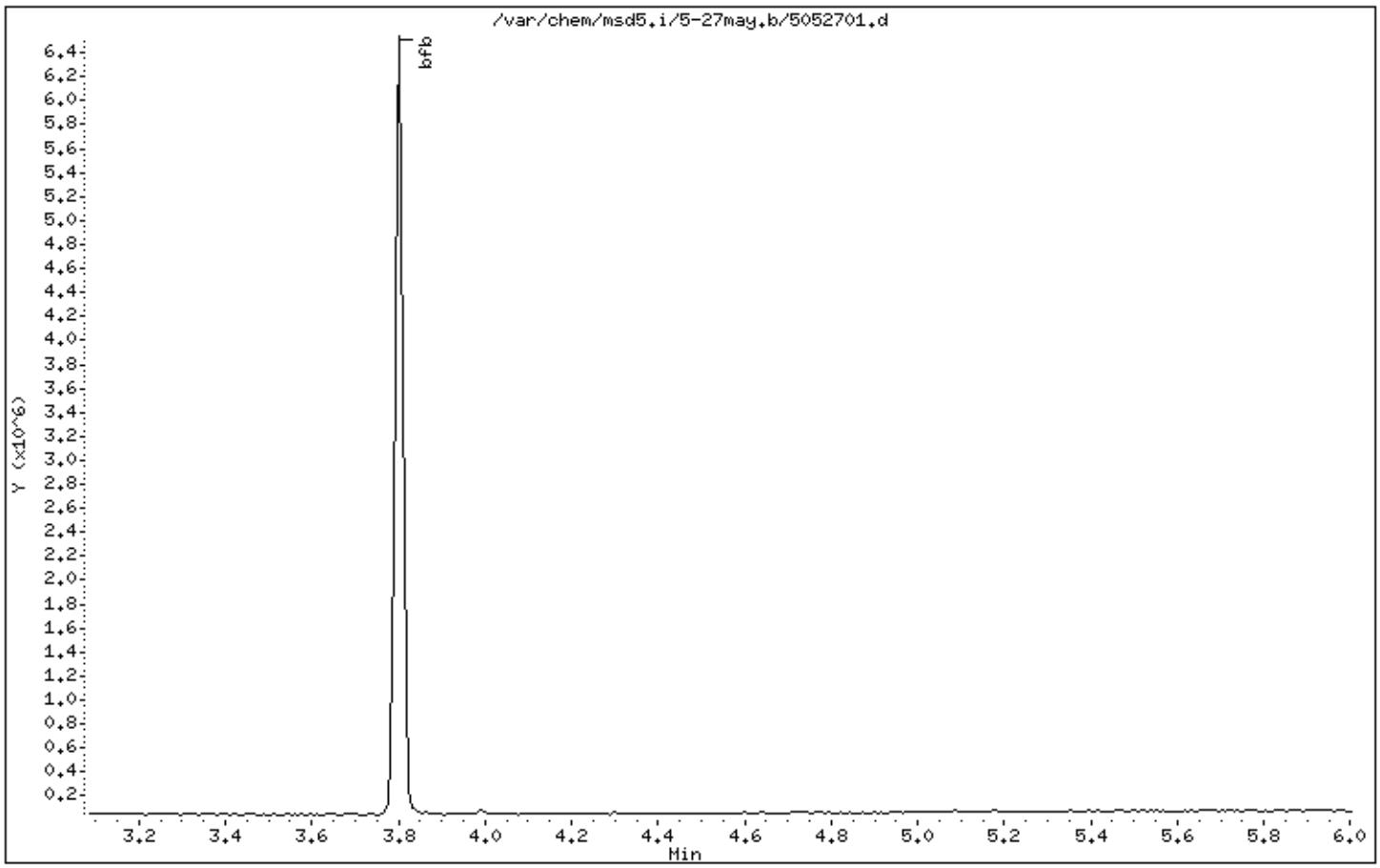
Date : 27-MAY-2008 07:30

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00



Data File: /var/chem/msd5.i/5-27may.b/5052701.d

Date : 27-MAY-2008 07:30

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

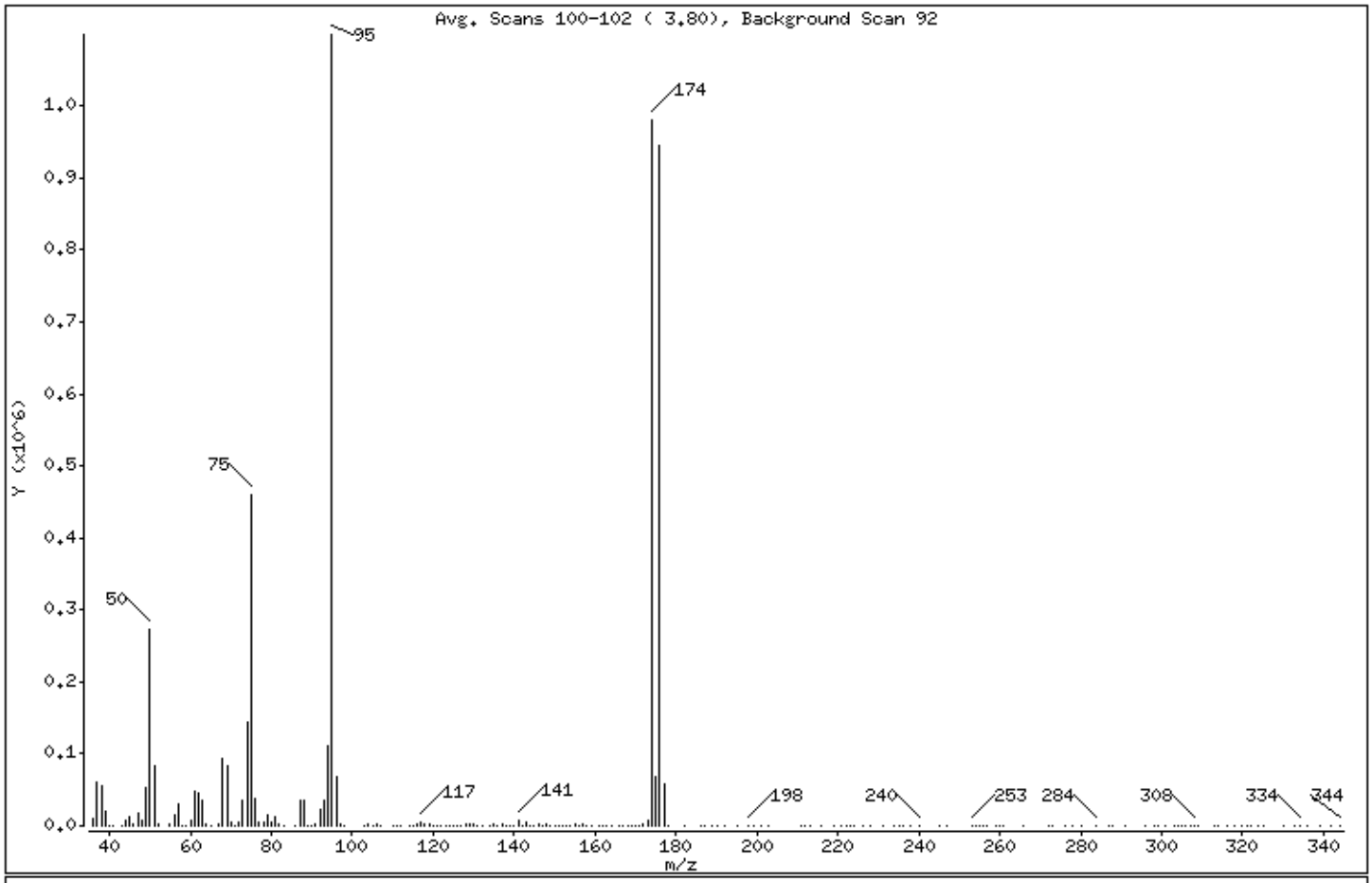
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.93
75	30.00 - 60.00% of mass 95	41.93
96	5.00 - 9.00% of mass 95	6.17
173	Less than 2.00% of mass 174	0.70 (0.78)
174	50.00 - 100.00% of mass 95	89.18
175	5.00 - 9.00% of mass 174	6.27 (7.04)
176	95.00 - 101.00% of mass 174	85.92 (96.35)
177	5.00 - 9.00% of mass 176	5.38 (6.26)

Date : 27-MAY-2008 07:30

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5052701.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9638	93.00	36528	152.00	444	238.00	165
37.00	60192	94.00	110384	153.00	755	240.00	257
38.00	56560	95.00	1099264	154.00	896	245.00	175
39.00	21288	96.00	67864	155.00	2809	247.00	226
40.00	709	97.00	2078	156.00	257	253.00	639
41.00	184	98.00	149	157.00	1883	254.00	194
43.00	341	103.00	395	158.00	144	255.00	223
44.00	7338	104.00	2935	159.00	594	256.00	111
45.00	11502	105.00	1050	161.00	915	257.00	76
46.00	1347	106.00	3099	162.00	125	259.00	83
47.00	16584	107.00	731	163.00	261	260.00	52
48.00	6751	110.00	236	164.00	24	261.00	117
49.00	53544	111.00	742	166.00	158	266.00	308
50.00	273984	112.00	643	167.00	267	272.00	54
51.00	84000	114.00	207	168.00	792	273.00	92
52.00	3520	115.00	815	169.00	114	276.00	71
55.00	2711	116.00	1893	170.00	834	278.00	116
56.00	16014	117.00	4689	171.00	305	280.00	59
57.00	30184	118.00	2023	172.00	1756	284.00	158
58.00	1087	119.00	3043	173.00	7665	287.00	112
59.00	20	120.00	228	174.00	980288	288.00	77
60.00	7582	121.00	55	175.00	68968	291.00	139
61.00	49016	122.00	427	176.00	944448	296.00	248
62.00	45120	123.00	249	177.00	59168	298.00	74
63.00	35104	124.00	395	178.00	1259	299.00	55
64.00	2371	125.00	123	182.00	139	301.00	101
65.00	709	126.00	547	186.00	63	303.00	67
67.00	1916	127.00	287	187.00	94	304.00	256
68.00	94264	128.00	2612	189.00	85	305.00	60
69.00	83904	129.00	1823	190.00	141	306.00	79
70.00	6312	130.00	3287	192.00	63	307.00	102
71.00	520	131.00	1241	195.00	198	308.00	261
72.00	4077	132.00	406	198.00	264	309.00	149
73.00	36328	134.00	166	199.00	54	313.00	56
74.00	144704	135.00	1432	201.00	163	314.00	57

Date : 27-MAY-2008 07:30

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5052701.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	460928	136.00	118	203.00	90	316.00	127
76.00	38912	137.00	1509	211.00	194	318.00	186
77.00	4682	138.00	93	212.00	255	320.00	85
78.00	3940	139.00	359	213.00	153	321.00	142
79.00	13990	140.00	305	216.00	58	322.00	85
80.00	4284	141.00	6604	219.00	68	324.00	109
81.00	13223	142.00	1132	221.00	207	325.00	62
82.00	2341	143.00	6303	222.00	101	330.00	88
83.00	428	144.00	603	223.00	64	333.00	63
86.00	1019	145.00	652	224.00	157	334.00	400
87.00	35512	146.00	1654	226.00	243	336.00	124
88.00	35568	147.00	531	228.00	243	339.00	73
89.00	361	148.00	1697	231.00	62	342.00	192
90.00	120	149.00	490	234.00	145	344.00	57
91.00	2290	150.00	571	235.00	63		
92.00	22688	151.00	238	236.00	57		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0805378
# of pages (Including Cover): 1

6/3/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

The following discrepancies have been observed:

The number of samples received did not match the information on the Chain of Custody (COC). Sample DW-AMS-3 (Trip Blank) was added to the analytical request.

Sample identifications on the Chain of Custody (COC) were not unique for samples DW AMS 3. "Trip Blank" was added to the appropriate sample ID to ensure uniqueness.

The Chain of Custody (COC) information for sample DW AMS 3 did not match the information on the canister with regard to canister identification. Unless otherwise notified, ATL will proceed with the analysis using the information on the canister to process and report the sample.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0209

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

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	DW AMS 3 06103/43138	0545/1345 5/14/08	TO-15 + Naphthalene			
02A	DW AMS 1 33996	0545/1345 5/14/08	TO-15 + Naphthalene			

Relinquished By: (Signature) Date/Time: Thom R Tan 1345 5/14/08	Received By: (Signature) Date/Time: ATL 05-16-08 0845
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	8635958745	AON	ne	Good	Yes No (None)	0805378

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0805378

Client

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

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 06/02/08
Date Completed: 5/30/08
Date Received: 5/16/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 976.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 3	Modified TO-15	5/14/2008	0.4psi	$225.00
02A	UW AMS 1	Modified TO-15	5/14/2008	6.0 "Hg	$225.00
03A	DW-AMS-3 (Trip Blank)	Modified TO-15	5/14/2008	4.0 "Hg	$225.00
04A	Lab Blank	Modified TO-15	NA	NA	$0.00
05A	CCV	Modified TO-15	NA	NA	$0.00
06A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each., Shipment 58429	$50.00
	6 Liter Summa Canister (100% Certified) (2) @ $65.00 each., Shipment 58	$130.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58429	$35.00
	Blue Body Flow Controller (100% Certified) (2) @ $40.00 each., Shipmen	$80.00
	Fuel Surcharge (3) @ $2.00 each.	$6.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MW **Date:** 5/16/18 **Discrepancy Type:** (circle all that apply) I. II. III.

Workorder(s) affected: 0805378 **Sample(s) affected:** see below

Project ID: _____

I. Sample Receipt Discrepancies

Narration Not Required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☒ Flow controller used - canister samples received at ambient or under pressure. 03A
- ☐ No brass cap on canister.
- ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.
- ☐ Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required in Lab Narrative and Sample Confirmation:

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

Describe the Discrepancy: 01A can # is 34738

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

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

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

Describe the Discrepancy: extra Sample : DW-AMS-3 DOC: 5/14/18 TIC: 1345
Can # 43738 - analyze?

III. Lab Discrepancies requiring Team Leader/CSR notification

Document in Analytical Notes of Lab Narrative

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

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

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

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

Describe the Discrepancy: _____

_____

Client Services Use Only

Client Services Notification

CSR notified: _____ Date: _____

Action:

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

  CSR Initials: _____ Date: _____

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

  Client Notification:

  Person notified: Jess Landgraff Date: 5-19-08

  Comments: Extra sample is client's trip blank. Please add.

  ☐ Lab notified Name: _____ Date: _____

Additional Notifications

CSR notified: _____ Date: _____

Action:

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

  CSR Initials: _____ Date: _____

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

  Client Notification:

  Person notified: _____ Date: _____

  Comments: _____

  ☐ Lab notified Name: _____ Date: _____

- ☐ **Additional notifications attached.**

Other Records

DILUTION FACTORS

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

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

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

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.

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

Media Certification Report

Canister Number: 6L#34738 w/10.2ml
Can#: 58429-34738
Date : 05/01/08 16:45
Data File: x050111.d

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

Name	CAS	Type	Conc.	Units
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
Naphthalene	91-20-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		112.00	% Recovery
Toluene-d8	2037-26-5		100.00	% Recovery
4-Bromofluorobenzene	460-00-4		96.00	% Recovery

Air Toxics LTD.
www.airtoxics.com
1-800-985-5955

Media Certification Report

Canister Number: 6L#96105 w/10.2ml
Can#: 58429-96105
Date : 05/01/08 18:44
Data File: x050115.d

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

Name	CAS	Type	Conc.	Units
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
Naphthalene	91-20-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		102.00	% Recovery
Toluene-d8	2037-26-5		101.00	% Recovery
4-Bromofluorobenzene	460-00-4		97.00	% Recovery

DATA REVIEW CHECKLIST

Work Order #: 0805378

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

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

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

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

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

A/R: 2 outliers in CCV; TIF & 2,2,4-TMP @ 44%

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
5/28/08	R: 5/29/08	5/30/08	
	T:		

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

Not Applicable