
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 #: 0807628

	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	27
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)	28	35
b. Surrogate Recover Summary Form (If Applicable)	36	36
c. Internal Standard Summary Form (If Applicable)	37	37
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	38	133
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	134	148
i. Second Source LCS(Summary + Raw Data)	149	162
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	163	163
l. GC/MS Tune (Results + Raw Data)	164	171
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	172	173
b. Chain-of-Custody Records	174	174
c. Sample Log-In Sheet	175	175
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	176	178
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	179	180
g. Variance Table	--	--
h. Canister Certification	181	184
i. Data Review Check Sheet	185	185

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	8/18/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0807628

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:	07/31/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	08/13/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AMS 5 DW	Modified TO-15	9.5 "Hg	5 psi
02A	AMS 1 UW	Modified TO-15	10.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 08/13/08

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
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0807628

Two 6 Liter Summa Canister (100% Certified) samples were received on July 31, 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; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction 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
AMS 5 DW	0807628-01A	7/30/2008	7/31/2008	NA	13	8/12/2008	NA	Good
AMS 1 UW	0807628-02A	7/30/2008	7/31/2008	NA	13	8/12/2008	NA	Good
Lab Blank	0807628-03A	NA	NA	NA	NA	8/12/2008	NA	Good
CCV	0807628-04A	NA	NA	NA	NA	8/12/2008	NA	Good
LCS	0807628-05A	NA	NA	NA	NA	8/12/2008	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: AMS 5 DW

Lab ID#: 0807628-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.9	15	9.3	37
2-Butanone (Methyl Ethyl Ketone)	0.98	1.1	2.9	3.2
Ethanol	3.9	6.7	7.4	13

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 5 DW

Lab ID#: 0807628-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081207**	**Date of Collection: 7/30/08**	
Dil. Factor:	**1.96**	**Date of Analysis: 8/12/08 01:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.98	Not Detected	4.8	Not Detected
Freon 114	0.98	Not Detected	6.8	Not Detected
Vinyl Chloride	0.98	Not Detected	2.5	Not Detected
Bromomethane	0.98	Not Detected	3.8	Not Detected
Chloroethane	0.98	Not Detected	2.6	Not Detected
Freon 11	0.98	Not Detected	5.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Freon 113	0.98	Not Detected	7.5	Not Detected
Methylene Chloride	0.98	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.98	Not Detected	4.0	Not Detected
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Chloroform	0.98	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Carbon Tetrachloride	0.98	Not Detected	6.2	Not Detected
Benzene	0.98	Not Detected	3.1	Not Detected
1,2-Dichloroethane	0.98	Not Detected	4.0	Not Detected
Trichloroethene	0.98	Not Detected	5.3	Not Detected
1,2-Dichloropropane	0.98	Not Detected	4.5	Not Detected
cis-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
Toluene	0.98	Not Detected	3.7	Not Detected
trans-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Tetrachloroethene	0.98	Not Detected	6.6	Not Detected
1,2-Dibromoethane (EDB)	0.98	Not Detected	7.5	Not Detected
Chlorobenzene	0.98	Not Detected	4.5	Not Detected
Ethyl Benzene	0.98	Not Detected	4.2	Not Detected
m,p-Xylene	0.98	Not Detected	4.2	Not Detected
o-Xylene	0.98	Not Detected	4.2	Not Detected
Styrene	0.98	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.98	Not Detected	6.7	Not Detected
1,3,5-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,2,4-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,3-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,4-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
alpha-Chlorotoluene	0.98	Not Detected	5.1	Not Detected
1,2-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,3-Butadiene	0.98	Not Detected	2.2	Not Detected
Hexane	0.98	Not Detected	3.4	Not Detected
Cyclohexane	0.98	Not Detected	3.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 5 DW

Lab ID#: 0807628-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081207**	**Date of Collection: 7/30/08**	
Dil. Factor:	**1.96**	**Date of Analysis: 8/12/08 01:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.98	Not Detected	4.0	Not Detected
Bromodichloromethane	0.98	Not Detected	6.6	Not Detected
Dibromochloromethane	0.98	Not Detected	8.3	Not Detected
Cumene	0.98	Not Detected	4.8	Not Detected
Propylbenzene	0.98	Not Detected	4.8	Not Detected
Chloromethane	3.9	Not Detected	8.1	Not Detected
1,2,4-Trichlorobenzene	3.9	Not Detected	29	Not Detected
Hexachlorobutadiene	3.9	Not Detected	42	Not Detected
Acetone	3.9	15	9.3	37
Carbon Disulfide	0.98	Not Detected	3.0	Not Detected
2-Propanol	3.9	Not Detected	9.6	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.98	1.1	2.9	3.2
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
1,4-Dioxane	3.9	Not Detected	14	Not Detected
4-Methyl-2-pentanone	0.98	Not Detected	4.0	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected
Bromoform	0.98	Not Detected	10	Not Detected
4-Ethyltoluene	0.98	Not Detected	4.8	Not Detected
Ethanol	3.9	6.7	7.4	13
Methyl tert-butyl ether	0.98	Not Detected	3.5	Not Detected
3-Chloropropene	3.9	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Naphthalene	3.9	Not Detected	20	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/12Aug2008.b/g081207.d
Lab Smp Id: 0807628-01A
Inj Date : 12-AUG-2008 13:02
Operator : mlk Inst ID: msdg.i
Smp Info : 500mL #34018
Misc Info : 9.5"Hg -> 5psi
Comment :
Method : /chem/msdg.i/12Aug2008.b/t14q702a.m
Meth Date : 12-Aug-2008 11:46 mkisling Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1
Dil Factor: 1.96000
Integrator: HP RTE Compound Sublist: TO15qN.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	219949	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	169466			0.00- 30.00	77.05
9.002	9.002 (1.000)	49	585221			0.00- 30.00	266.07
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	832111	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	139891			0.00- 46.61	16.81
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	835060	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	522726			0.00- 30.00	62.60
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.668	9.667 (1.074)	65	439532	10.4114	10.411	80.00- 120.00	100.00
9.668	9.667 (1.074)	67	202388			0.00- 30.00	46.05
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	866433	10.0723	10.072	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	110342			0.00- 42.44	12.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	543695			32.74- 92.74	62.75
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	481246	9.92072	9.921	80.00- 120.00	100.00
17.201	17.226 (1.123)	95	732330			117.70- 177.70	152.17
17.226	17.226 (1.125)	176	463922			63.37- 123.37	96.40
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	52687	3.42565	6.714	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	18069			0.00- 30.00	34.29
6.225	6.225 (0.692)	46	20753			0.00- 30.00	39.39
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	646812	7.86428	15.414	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	123622			0.00- 30.00	19.11
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	8819	0.55806	1.094	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	112160			789.96- 849.96	1271.80
8.792	8.792 (0.977)	57	6118			0.00- 30.00	69.37

Report Date: 13-Aug-2008 10:06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g081207.d
Lab Smp Id: 0807628-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: mlk
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 9.5"Hg -> 5psi

Calibration Date: 12-AUG-2008
Calibration Time: 08:36
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	239617	143770	335464	219949	-8.21
51 1,4-Difluorobenze	925972	555583	1296361	832111	-10.14
72 Chlorobenzene-d5	846555	507933	1185177	835060	-1.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 13-Aug-2008 10:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 12Aug2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807628-01A
Level: LOW Operator: mlk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15qN.sub
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 9.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.411	104.11	70-130
$ 59 Toluene-d8	10.000	10.072	100.72	70-130
$ 81 Bromofluorobenzene	10.000	9.921	99.21	70-130

Data File: /chem/msdg.i/12Aug2008.b/g081207.d

Date : 12-AUG-2008 13:02

Client ID:

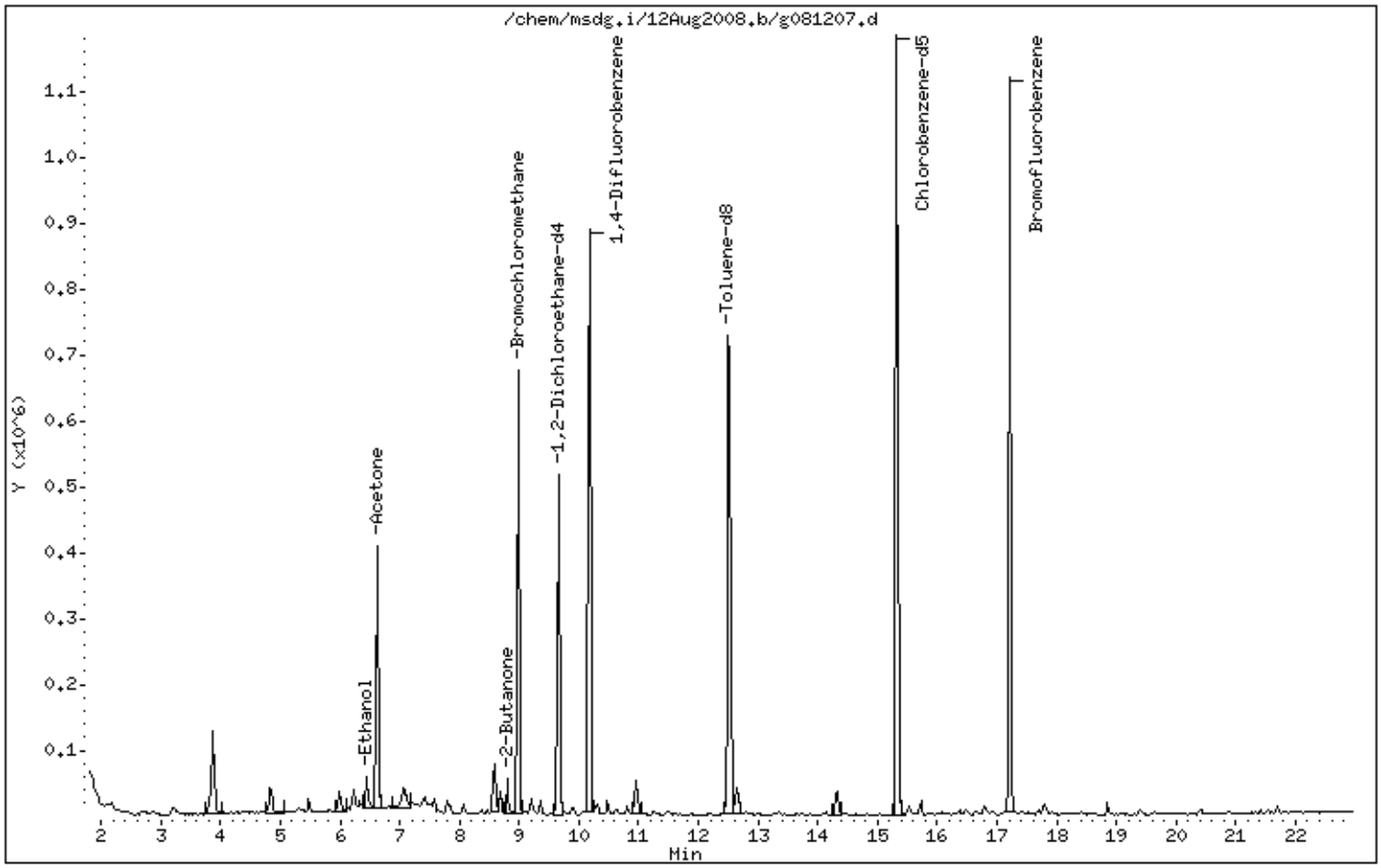
Instrument: msdg.i

Sample Info: 500mL #34018

Operator: mlk

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdg.i/12Aug2008.b/g081207.d

Date : 12-AUG-2008 13:02

Client ID:

Instrument: msdg.i

Sample Info: 500mL #34018

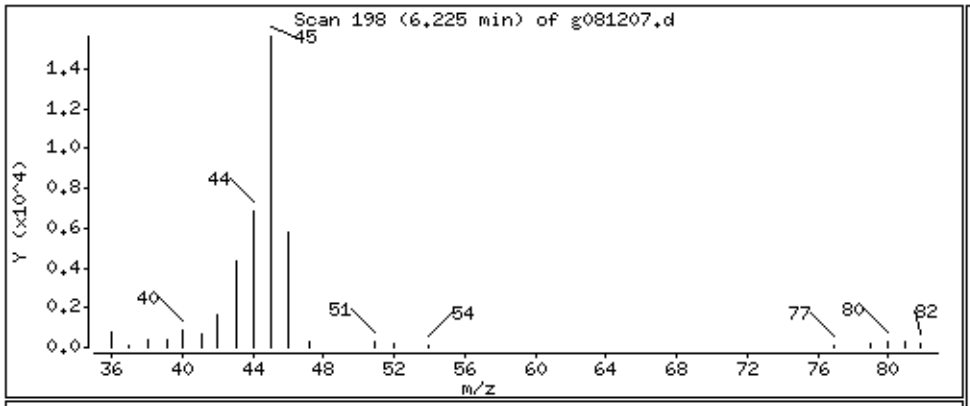
Operator: mlk

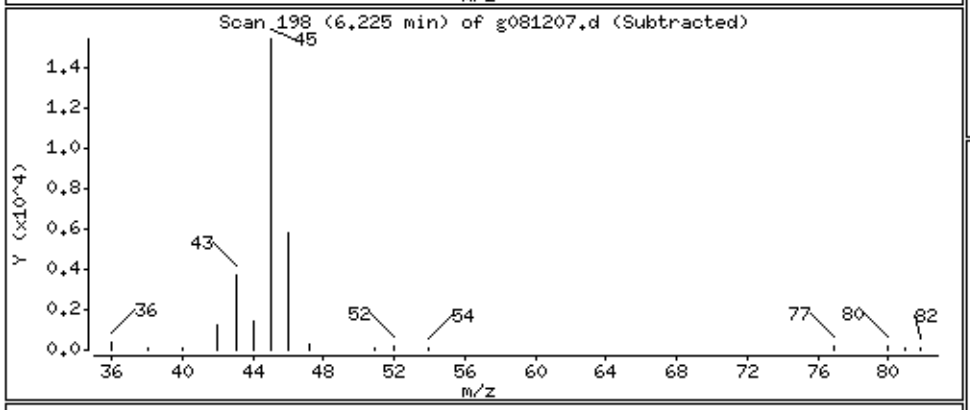
Column phase: RTx-624

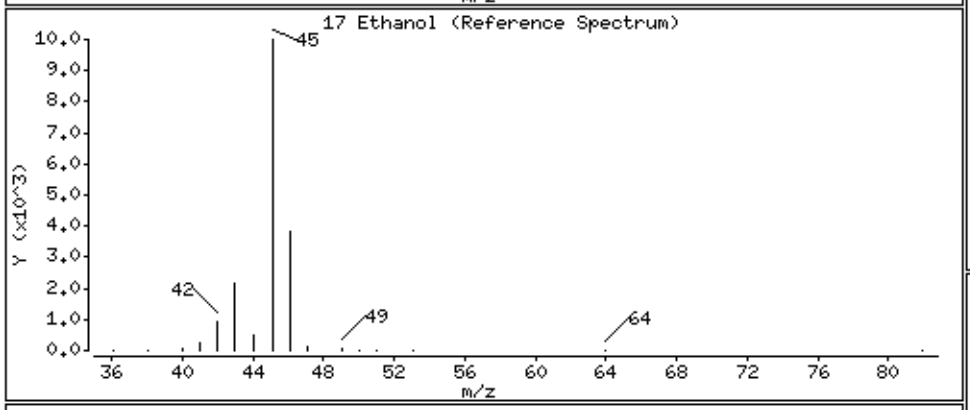
Column diameter: 0.32

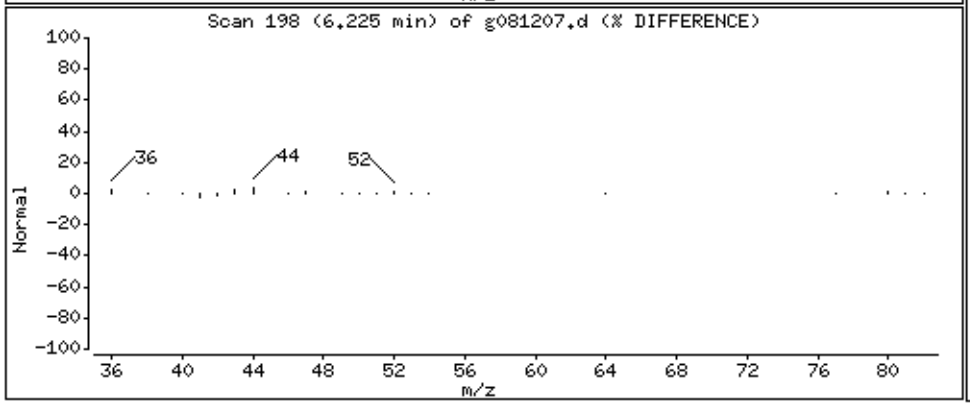
17 Ethanol

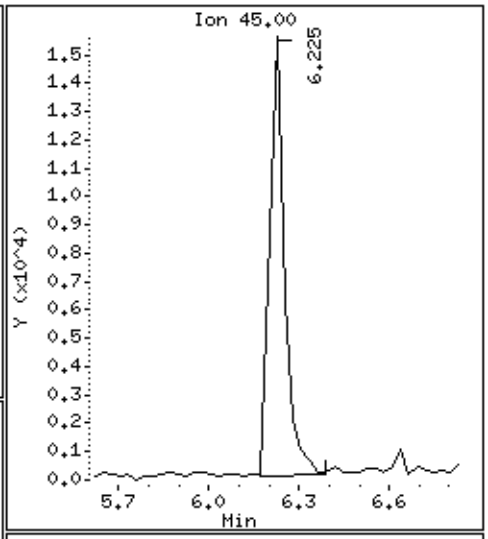
Concentration: 6.714 PPBV

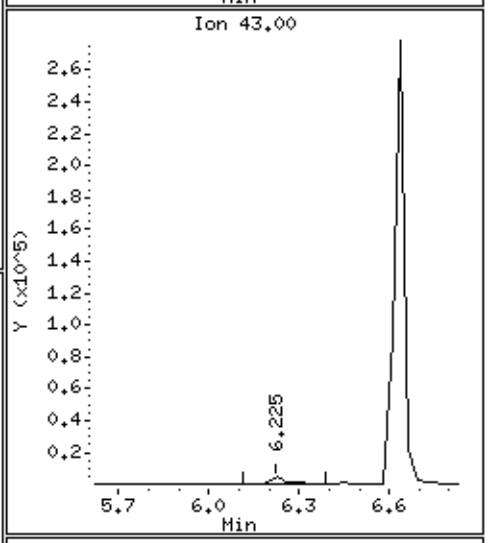


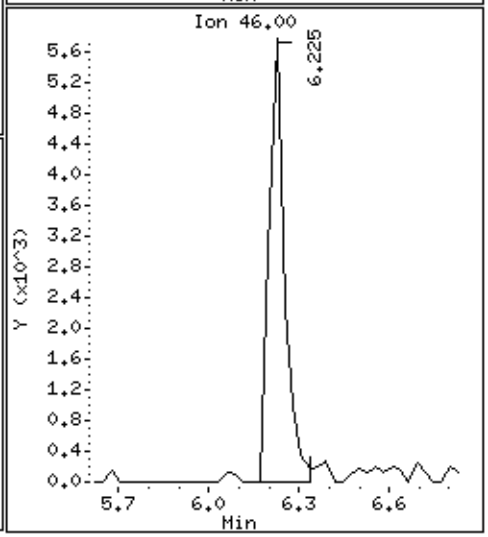












Data File: /chem/msdg.i/12Aug2008.b/g081207.d

Date : 12-AUG-2008 13:02

Client ID:

Instrument: msdg.i

Sample Info: 500mL #34018

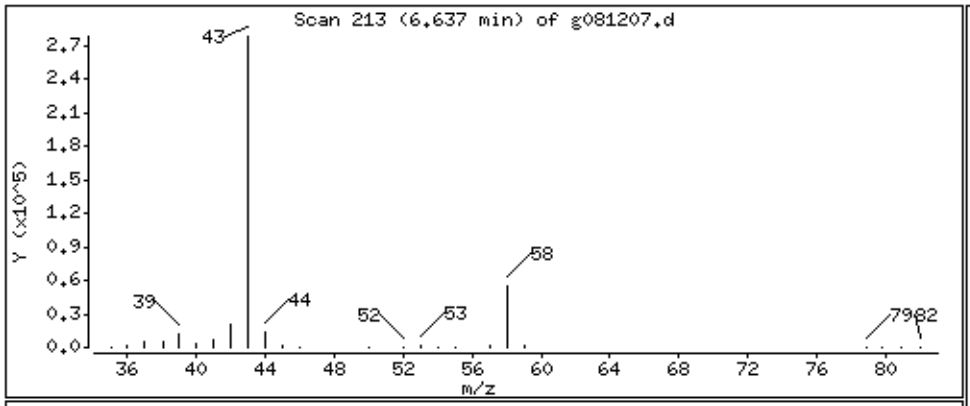
Operator: mlk

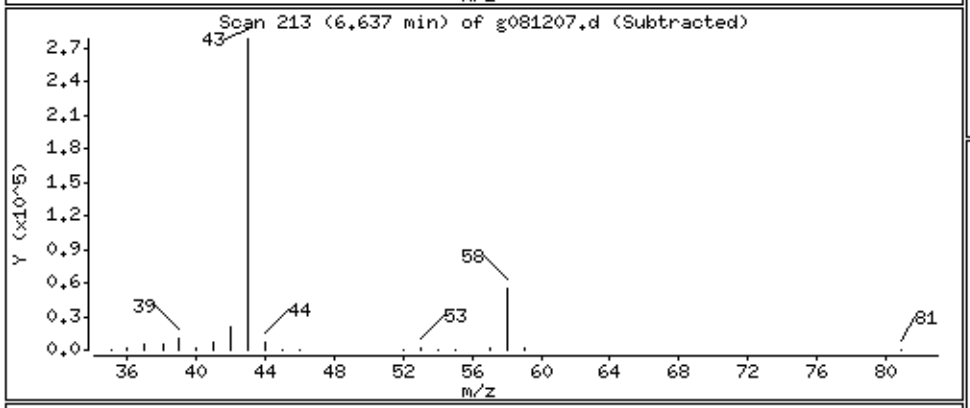
Column phase: RTx-624

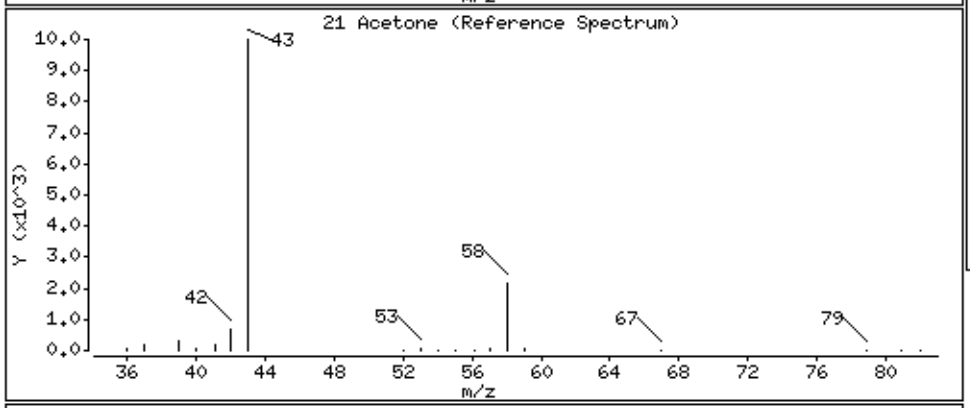
Column diameter: 0.32

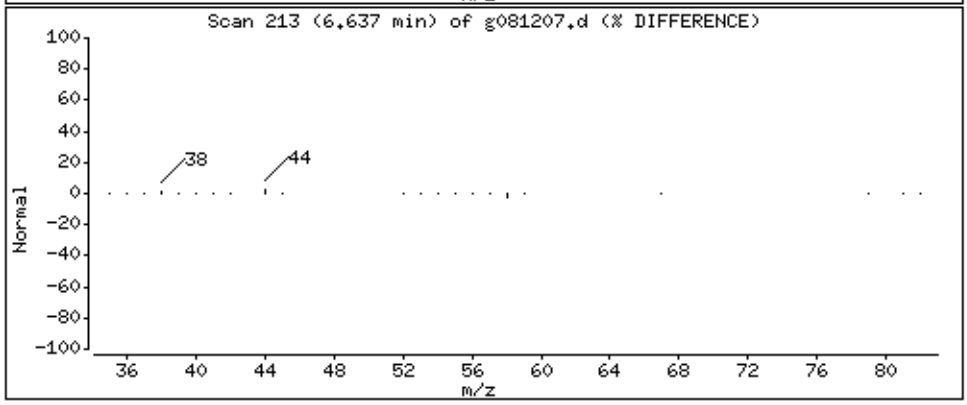
21 Acetone

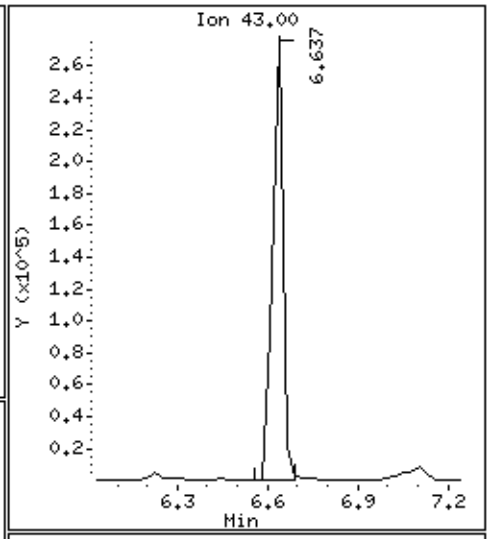
Concentration: 15.414 PPBV

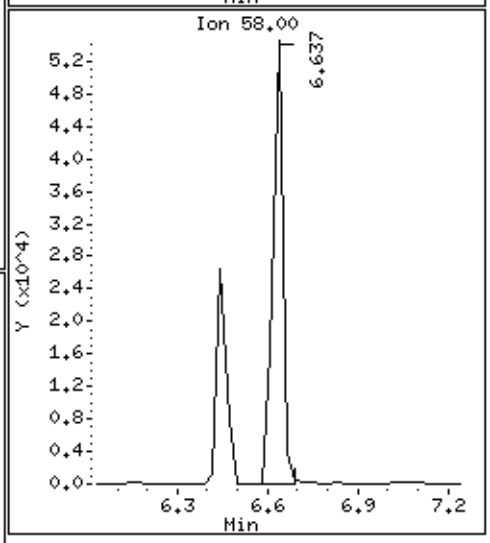












Data File: /chem/msdg.i/12Aug2008.b/g081207.d

Date : 12-AUG-2008 13:02

Client ID:

Instrument: msdg.i

Sample Info: 500mL #34018

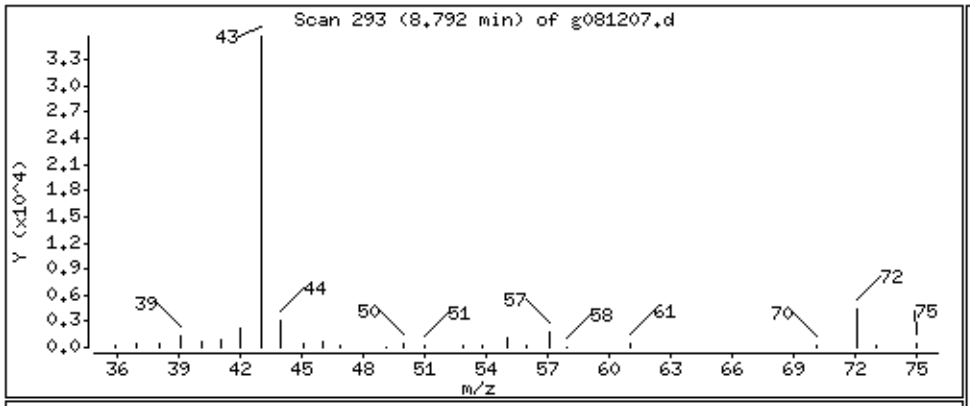
Operator: mlk

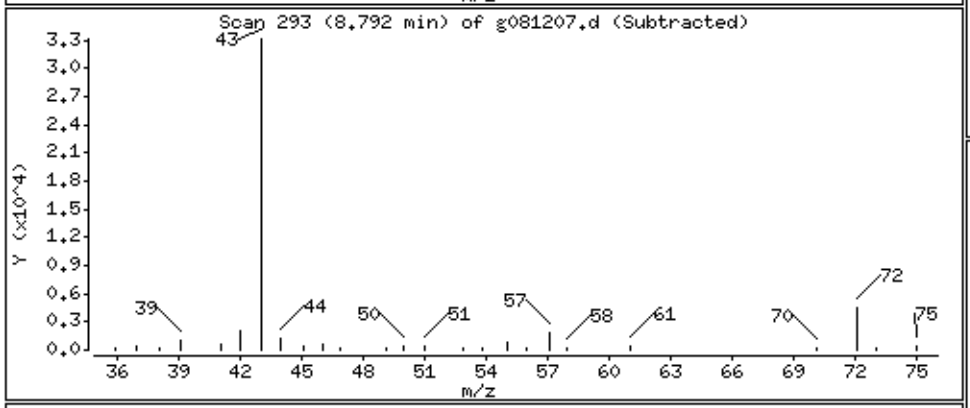
Column phase: RTx-624

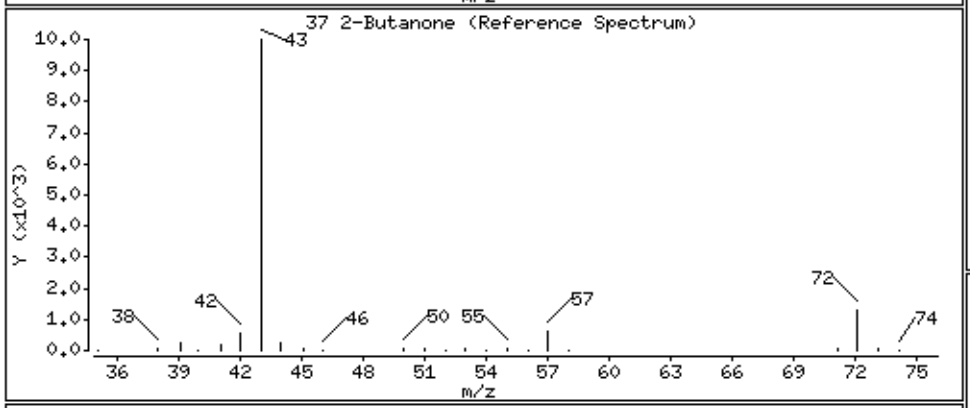
Column diameter: 0.32

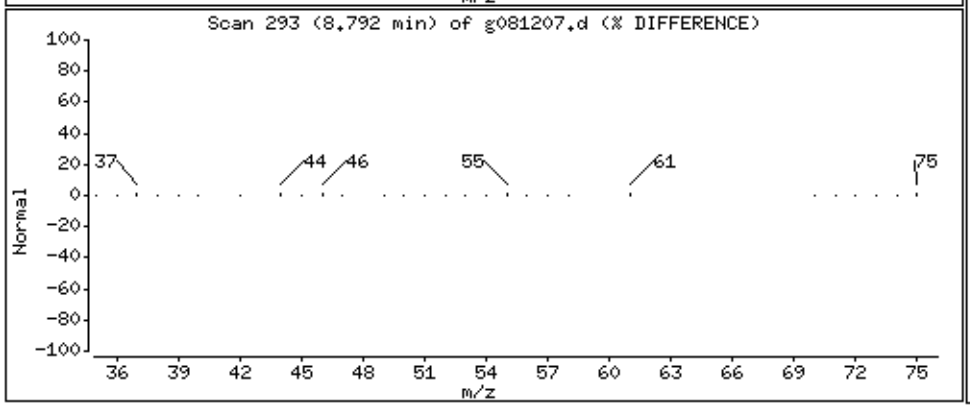
37 2-Butanone

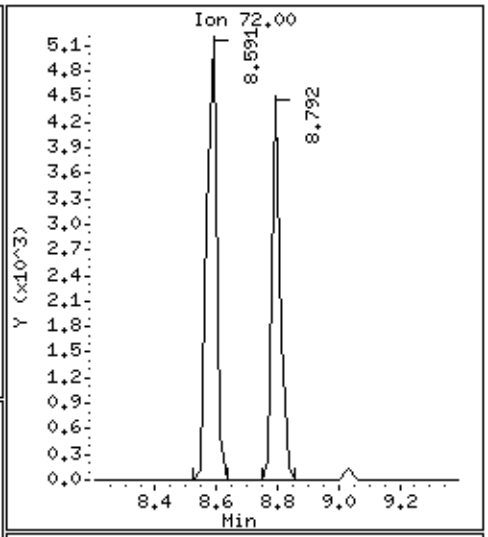
Concentration: 1.094 PPBV

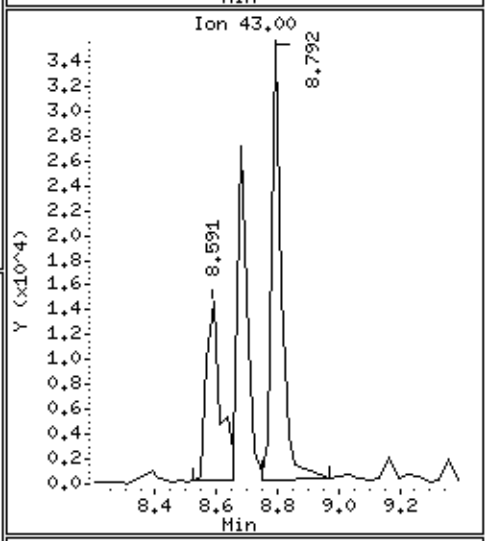


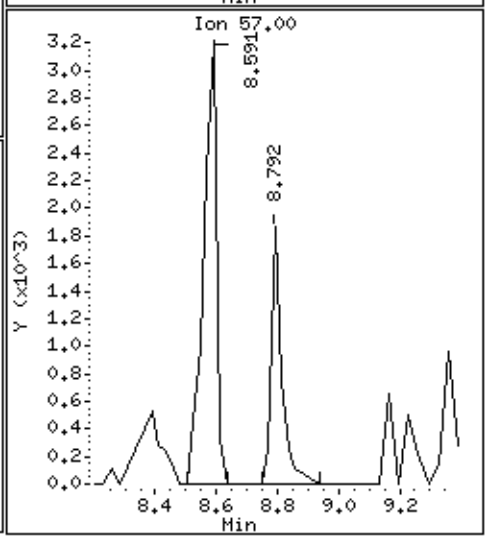












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS 1 UW

Lab ID#: 0807628-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.0	33	9.5	79
2-Butanone (Methyl Ethyl Ketone)	1.0	5.4	3.0	16
Ethanol	4.0	6.3	7.6	12

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 1 UW

Lab ID#: 0807628-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081208**	**Date of Collection:**	**7/30/08**
Dil. Factor:	**2.01**	**Date of Analysis:**	**8/12/08 01:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 114	1.0	Not Detected	7.0	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	Not Detected	2.6	Not Detected
Freon 11	1.0	Not Detected	5.6	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.7	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Hexane	1.0	Not Detected	3.5	Not Detected
Cyclohexane	1.0	Not Detected	3.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 1 UW

Lab ID#: 0807628-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081208**	**Date of Collection: 7/30/08**	
Dil. Factor:	**2.01**	**Date of Analysis: 8/12/08 01:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.0	Not Detected	4.1	Not Detected
Bromodichloromethane	1.0	Not Detected	6.7	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
Cumene	1.0	Not Detected	4.9	Not Detected
Propylbenzene	1.0	Not Detected	4.9	Not Detected
Chloromethane	4.0	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Acetone	4.0	33	9.5	79
Carbon Disulfide	1.0	Not Detected	3.1	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	5.4	3.0	16
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
4-Ethyltoluene	1.0	Not Detected	4.9	Not Detected
Ethanol	4.0	6.3	7.6	12
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
3-Chloropropene	4.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Naphthalene	4.0	Not Detected	21	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/12Aug2008.b/g081208.d
Lab Smp Id: 0807628-02A
Inj Date : 12-AUG-2008 13:57
Operator : mlk Inst ID: msdg.i
Smp Info : 500mL #5600
Misc Info : 10.0"Hg -> 5psi
Comment :
Method : /chem/msdg.i/12Aug2008.b/t14q702a.m
Meth Date : 12-Aug-2008 11:46 mkisling Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1
Dil Factor: 2.01000
Integrator: HP RTE Compound Sublist: TO15qN.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	238464	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	180953			0.00- 30.00	75.88
9.002	9.002 (1.000)	49	625283			0.00- 30.00	262.21
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	922026	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	153100			0.00- 46.61	16.60
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	913845	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	580701			0.00- 30.00	63.54
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.667	9.667 (1.074)	65	450714	9.84733	9.847	80.00- 120.00	100.00
9.667	9.667 (1.074)	67	215016			0.00- 30.00	47.71
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.523	12.499 (1.229)	98	935557	9.81527	9.815	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	119233			0.00- 42.44	12.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.499 (1.229)	100	580629			32.74- 92.74	62.06
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	535084	10.0796	10.080	80.00- 120.00	100.00
17.200	17.226 (1.123)	95	817112			117.70- 177.70	152.71
17.226	17.226 (1.125)	176	515695			63.37- 123.37	96.38
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	52011	3.11913	6.269	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	13975			0.00- 30.00	26.87
6.225	6.225 (0.692)	46	21516			0.00- 30.00	41.37
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	1470462	16.4905	33.146	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	281666			0.00- 30.00	19.15
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	46036	2.68695	5.401	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	373168			789.96- 849.96	810.60
8.792	8.792 (0.977)	57	22054			0.00- 30.00	47.91

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g081208.d
Lab Smp Id: 0807628-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: mlk
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 10.0"Hg -> 5psi

Calibration Date: 12-AUG-2008
Calibration Time: 08:36

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	239617	143770	335464	238464	-0.48
51 1,4-Difluorobenze	925972	555583	1296361	922026	-0.43
72 Chlorobenzene-d5	846555	507933	1185177	913845	7.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 13-Aug-2008 10:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 12Aug2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807628-02A
Level: LOW Operator: mlk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15qN.sub
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 10.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.847	98.47	70-130
$ 59 Toluene-d8	10.000	9.815	98.15	70-130
$ 81 Bromofluorobenzene	10.000	10.080	100.80	70-130

Data File: /chem/msdg.i/12Aug2008.b/g081208.d

Date : 12-AUG-2008 13:57

Client ID:

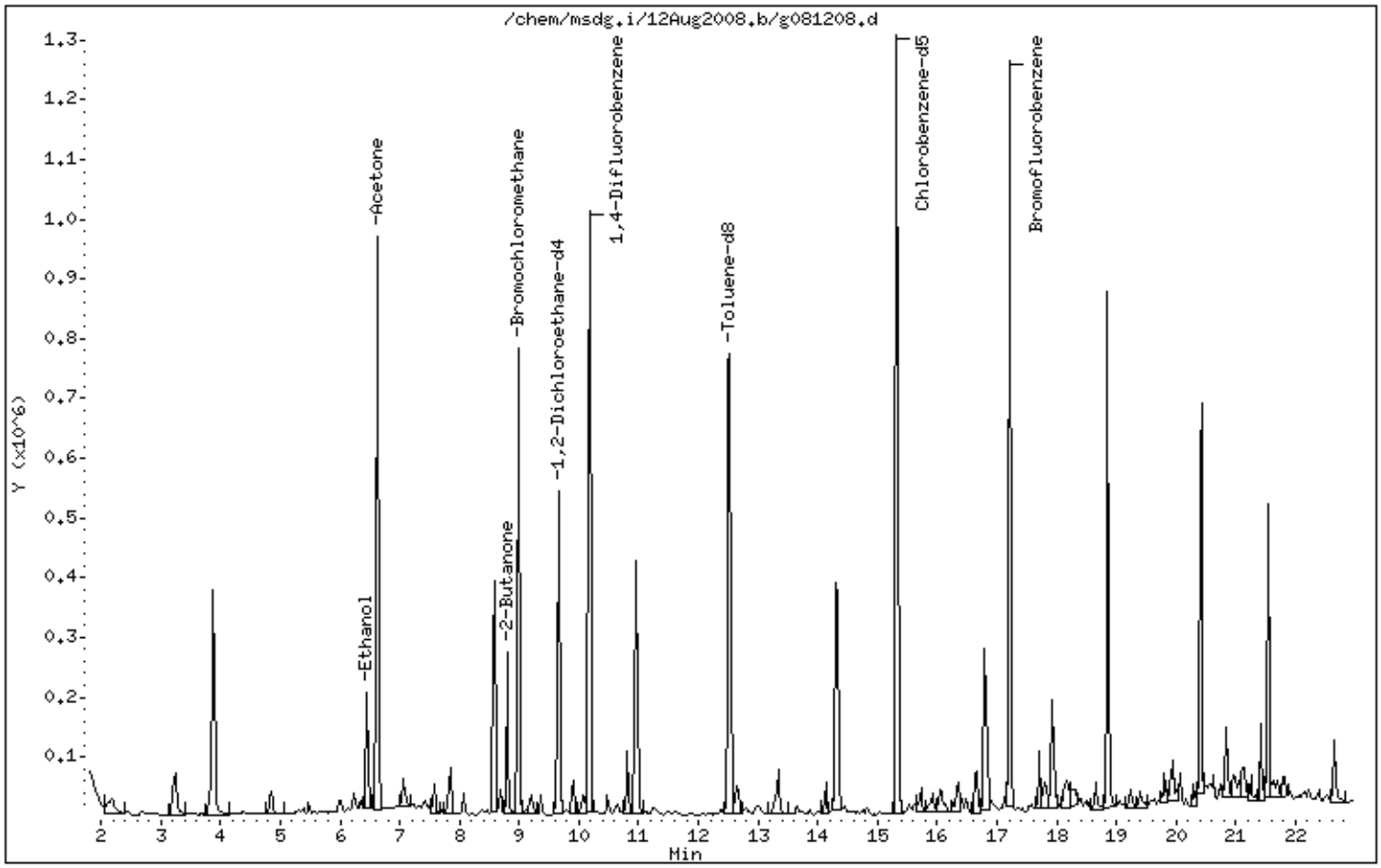
Instrument: msdg.i

Sample Info: 500mL #5600

Operator: mlk

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdg.i/12Aug2008.b/g081208.d

Date : 12-AUG-2008 13:57

Client ID:

Instrument: msdg.i

Sample Info: 500mL #5600

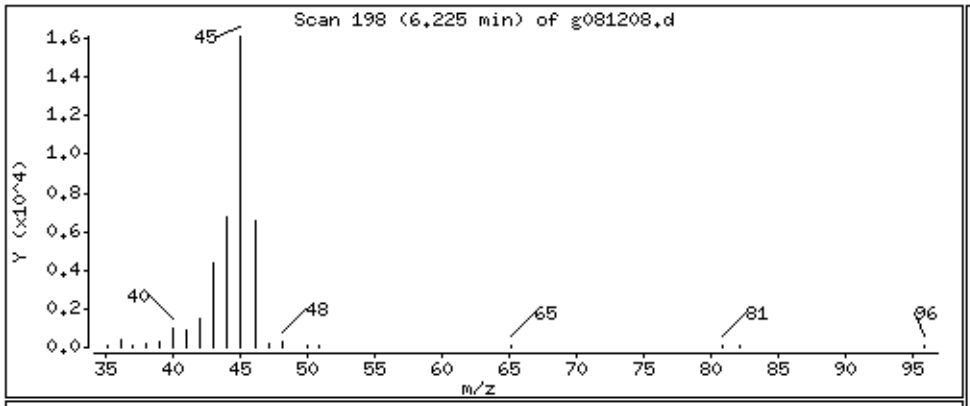
Operator: mlk

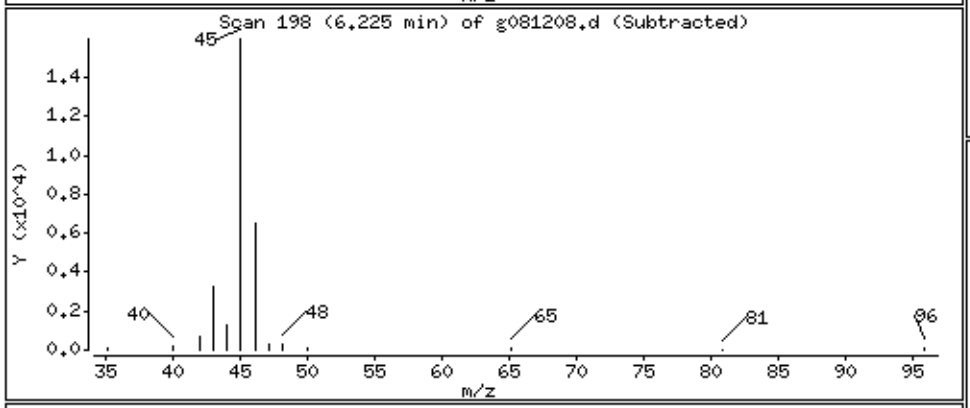
Column phase: RTx-624

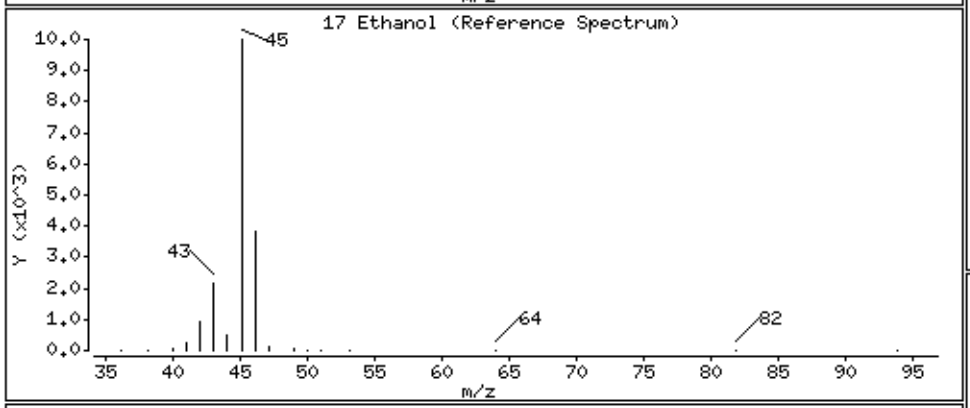
Column diameter: 0.32

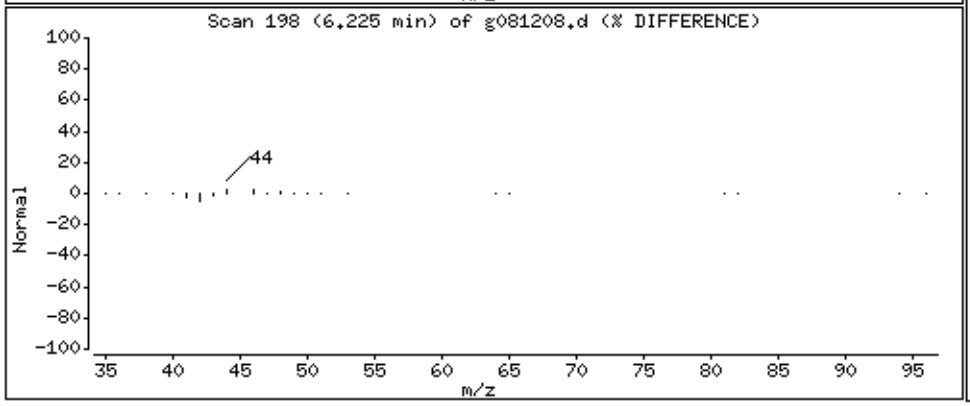
17 Ethanol

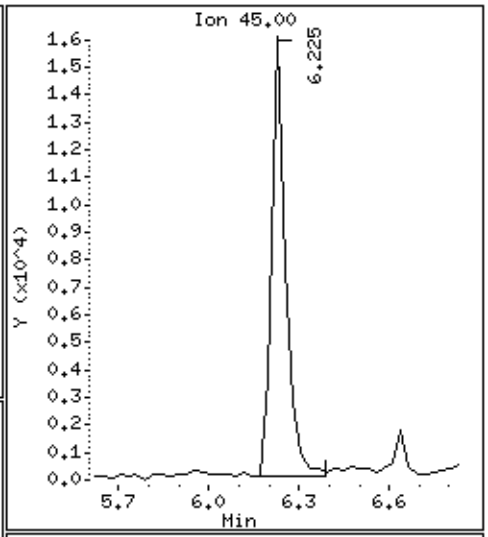
Concentration: 6.269 PPBV

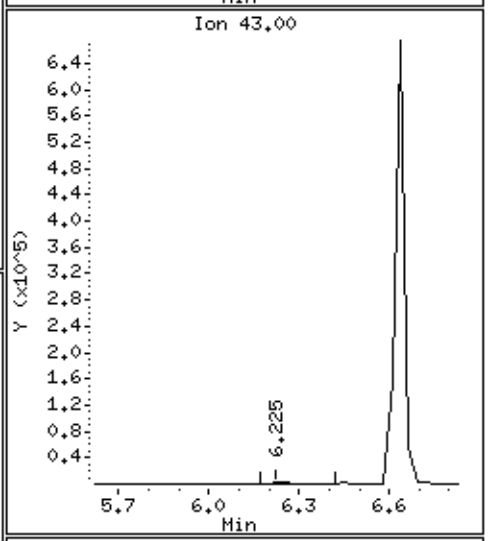


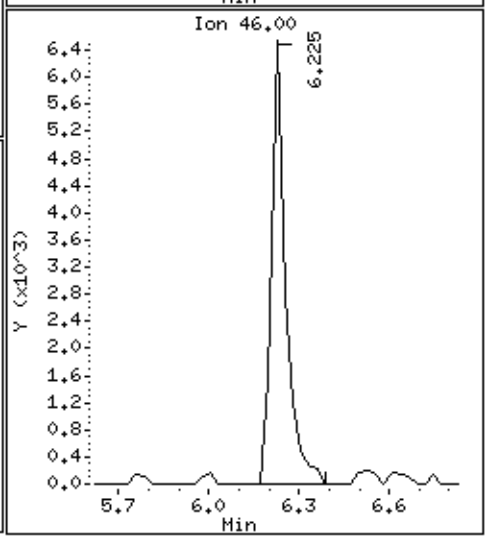












Data File: /chem/msdg.i/12Aug2008.b/g081208.d

Date : 12-AUG-2008 13:57

Client ID:

Instrument: msdg.i

Sample Info: 500mL #5600

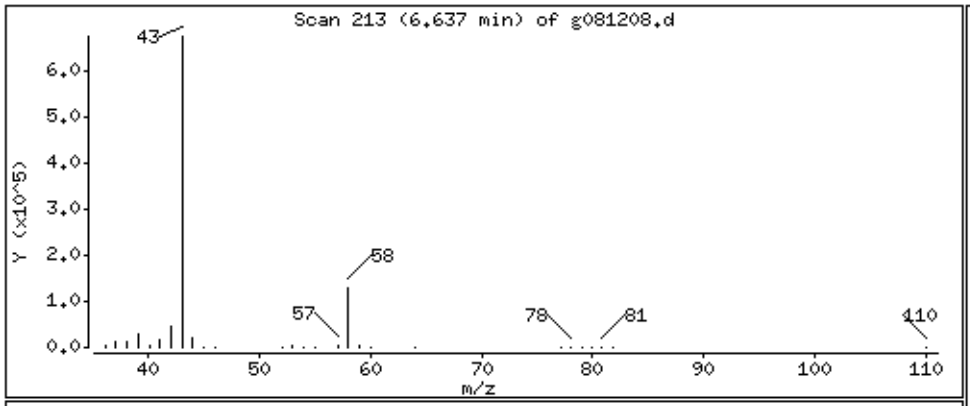
Operator: mlk

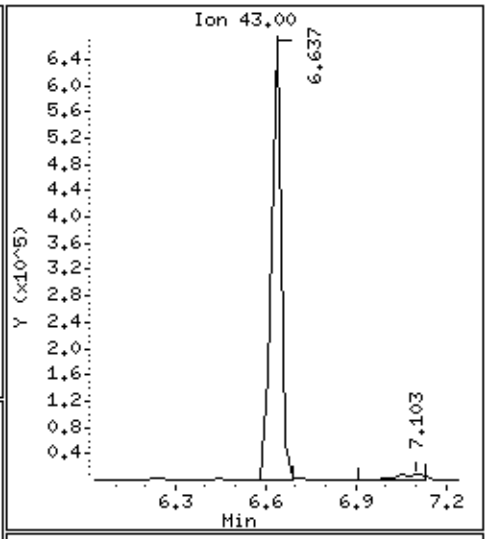
Column phase: RTx-624

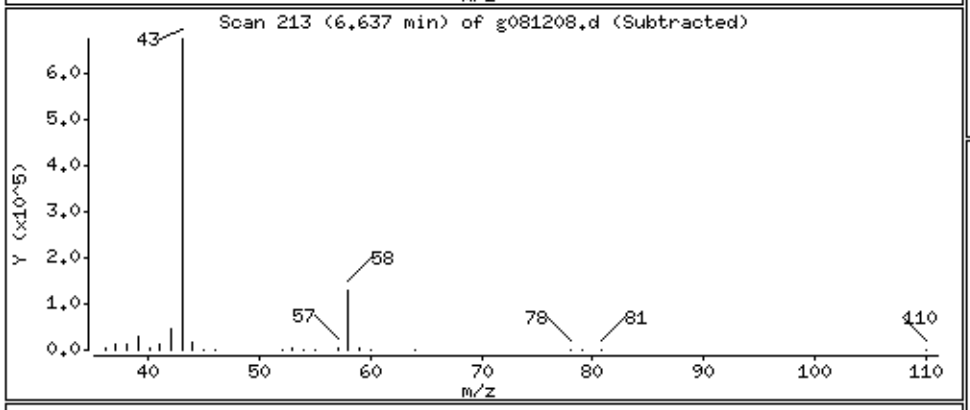
Column diameter: 0.32

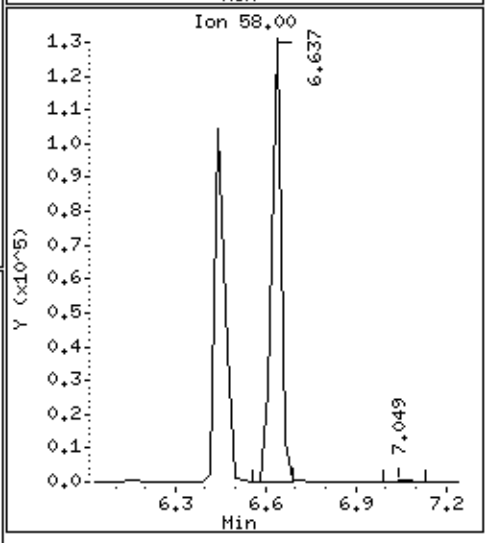
21 Acetone

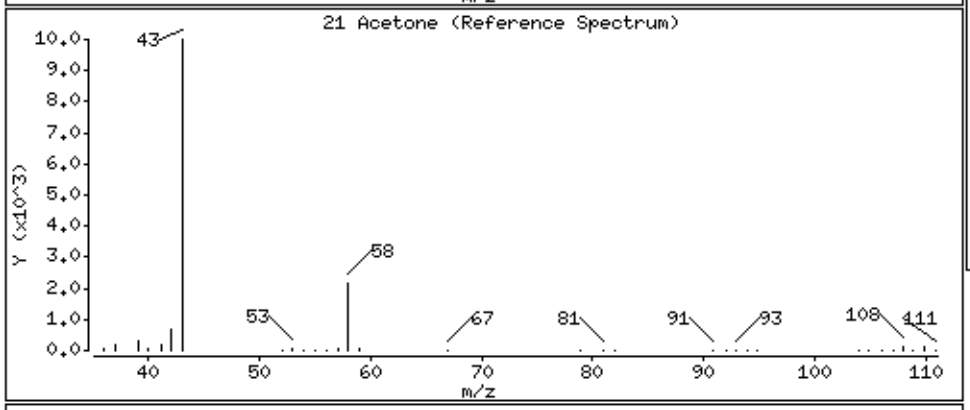
Concentration: 33.146 PPBV

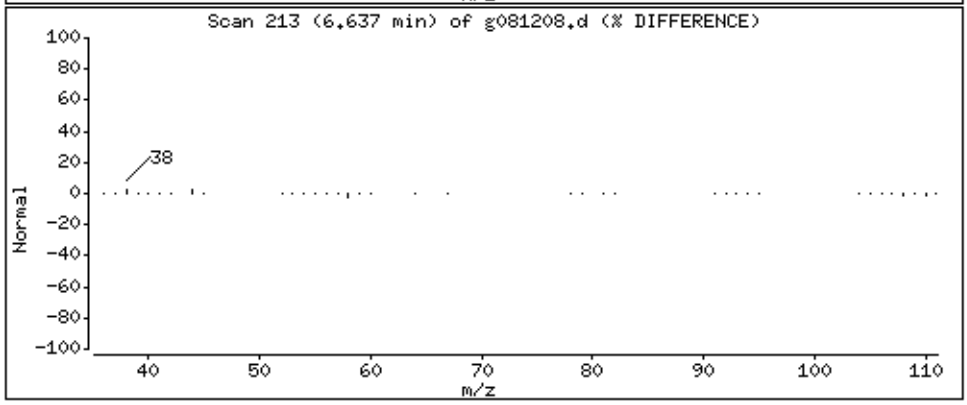












Data File: /chem/msdg.i/12Aug2008.b/g081208.d

Date : 12-AUG-2008 13:57

Client ID:

Instrument: msdg.i

Sample Info: 500mL #5600

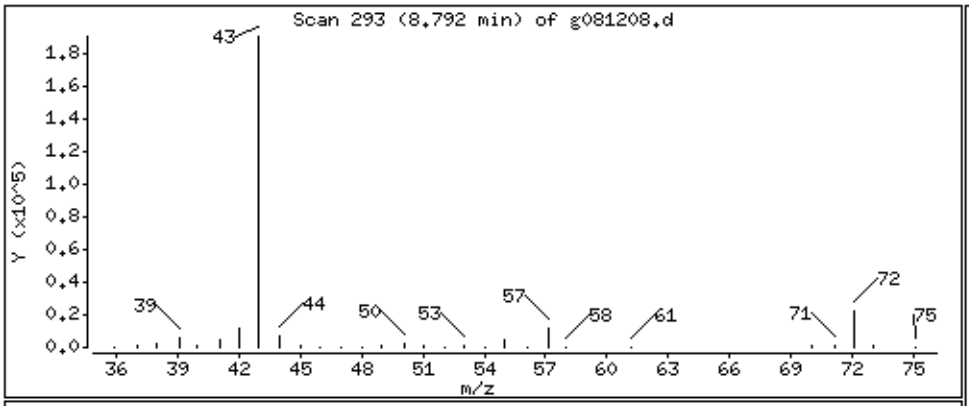
Operator: mlk

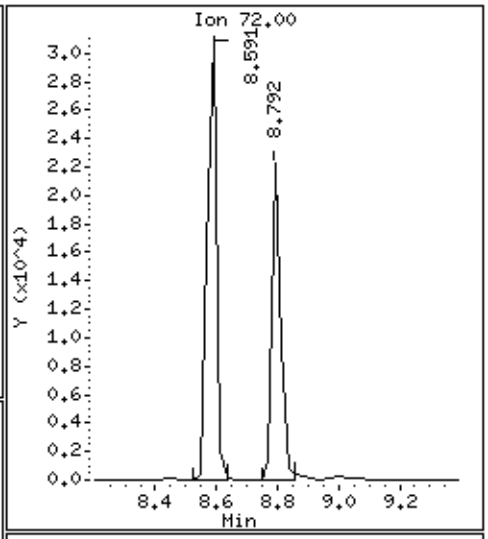
Column phase: RTx-624

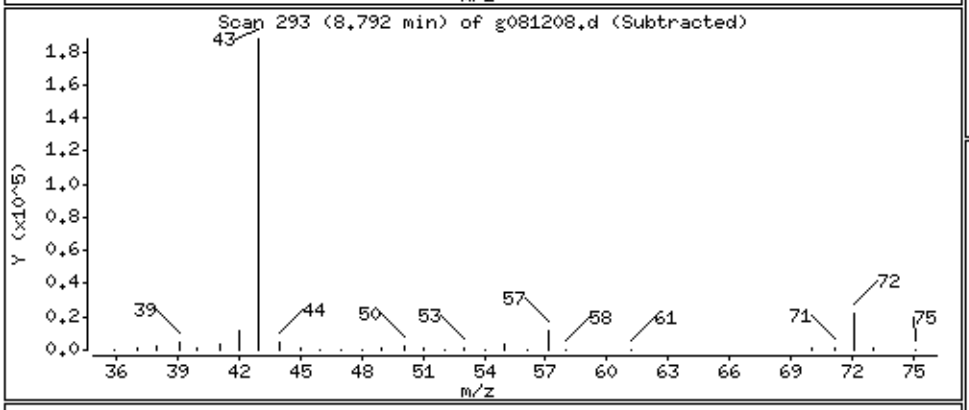
Column diameter: 0.32

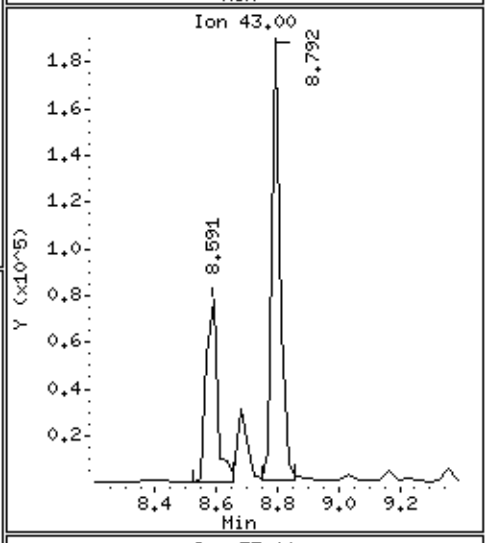
37 2-Butanone

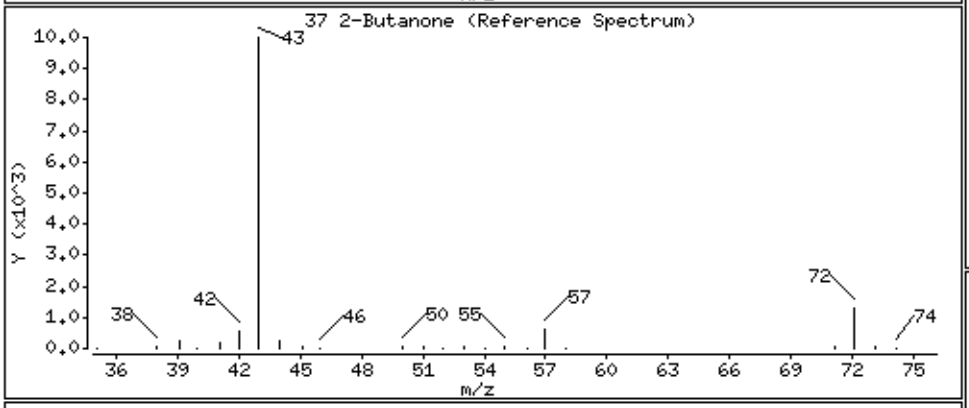
Concentration: 5.401 PPBV

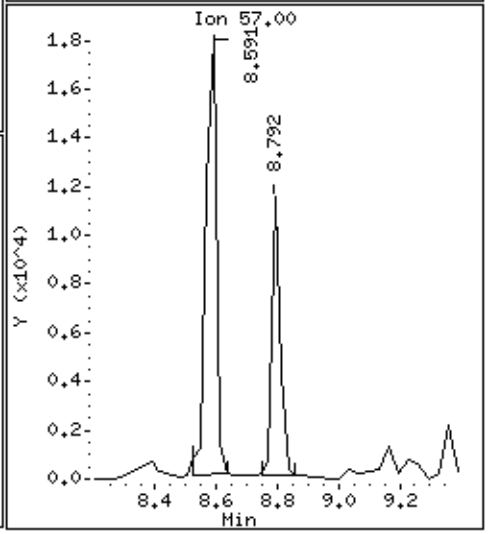


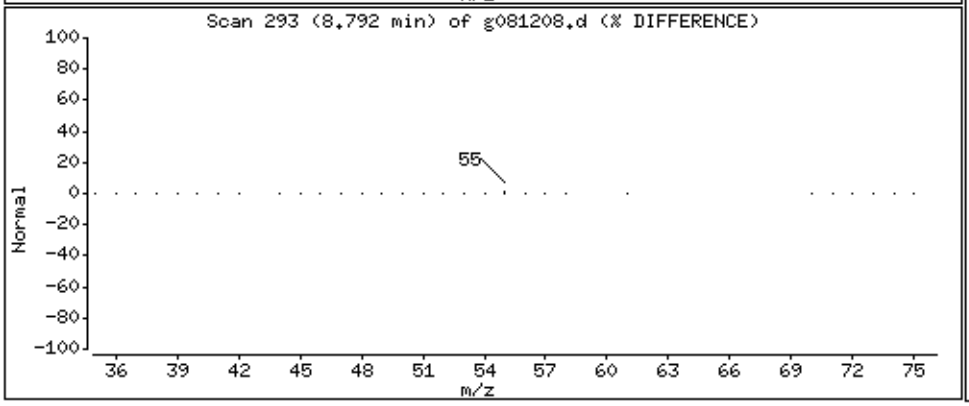












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0807628-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/08 11:50 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#: 0807628-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/08 11:50 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/12Aug2008.b/g081206.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 12-AUG-2008 11:50
Operator : mlk Inst ID: msdg.i
Smp Info : 500mL#34034
Misc Info : humid
Comment :
Method : /chem/msdg.i/12Aug2008.b/t14q702a.m
Meth Date : 12-Aug-2008 11:46 mkisling Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Q.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
==	====== ========	====	========	=======	=======	==========	=====
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	247426	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	189506			0.00- 30.00	76.59
9.002	9.002 (1.000)	49	652914			0.00- 30.00	263.88
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	904253	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	150942			0.00- 46.61	16.69
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	895801	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	582888			0.00- 30.00	65.07
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.667	9.667 (1.074)	65	488590	10.2882	10.288	80.00- 120.00	100.00
9.667	9.667 (1.074)	67	232157			0.00- 30.00	47.52
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.523	12.499 (1.229)	98	957512	10.2431	10.243	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	119780			0.00- 42.44	12.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.499 (1.229)	100	583138			32.74- 92.74	60.90
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	505865	9.72113	9.721	80.00- 120.00	100.00
17.226	17.226 (1.125)	95	765193			117.70- 177.70	151.26
17.226	17.226 (1.125)	176	487812			63.37- 123.37	96.43

Report Date: 12-Aug-2008 12:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g081206.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: mlk
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: humid

Calibration Date: 12-AUG-2008
Calibration Time: 08:36
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	239617	143770	335464	247426	3.26
51 1,4-Difluorobenze	925972	555583	1296361	904253	-2.35
72 Chlorobenzene-d5	846555	507933	1185177	895801	5.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 12-Aug-2008 12:21

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 12Aug2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: mlk
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08Q.sub
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.288	102.88	70-130
$ 59 Toluene-d8	10.000	10.243	102.43	70-130
$ 81 Bromofluorobenzene	10.000	9.721	97.21	70-130

Data File: /chem/msdg.i/12Aug2008.b/g081206.d

Date : 12-AUG-2008 11:50

Client ID: Lab Blank

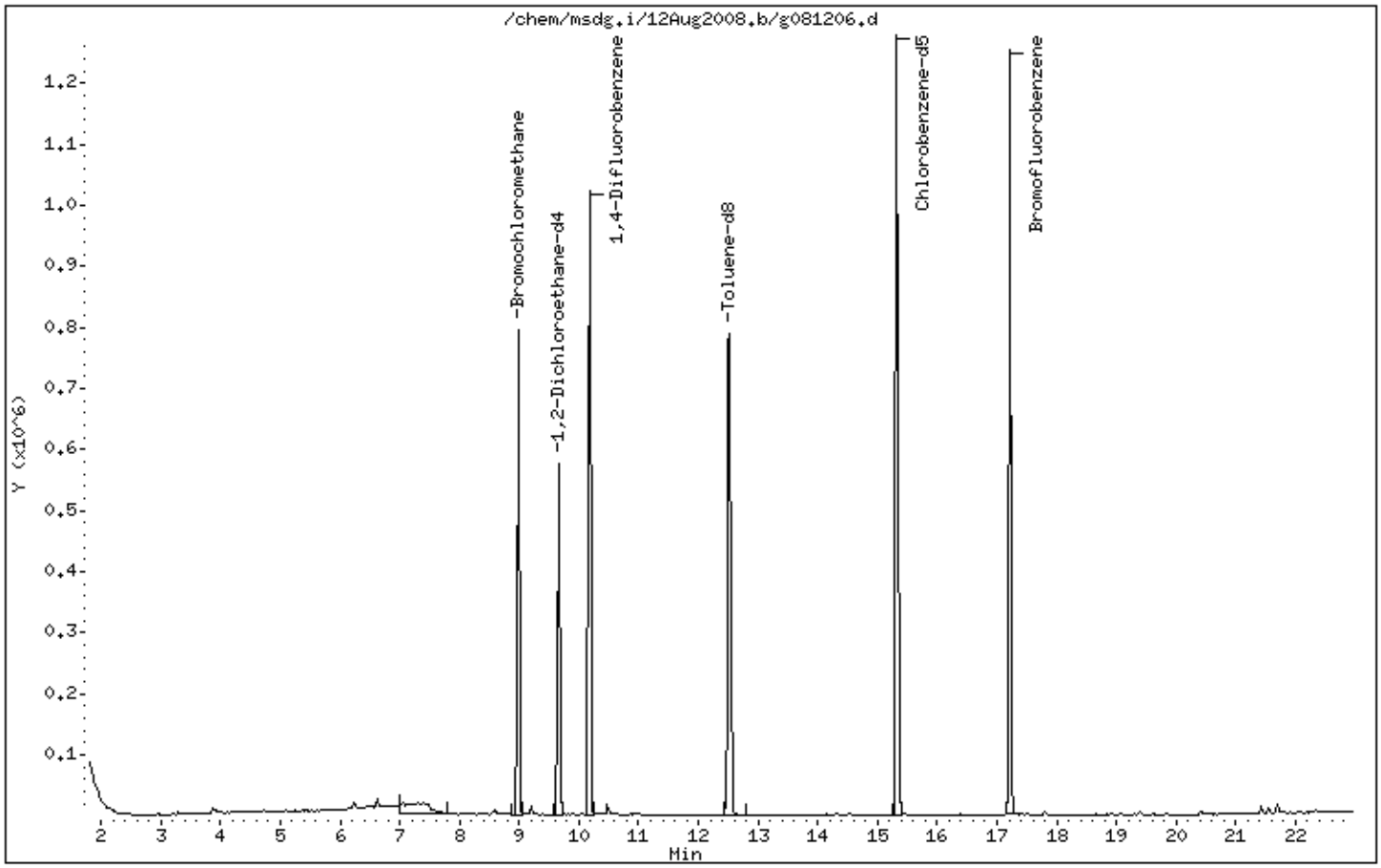
Instrument: msdg.i

Sample Info: 500mL#34034

Operator: mlk

Column phase: RTx-624

Column diameter: 0.32



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0807628

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS 5 DW	104		101		99				0
02	AMS 1 UW	98		98		101				0
03	Lab Blank	103		102		97				0
04	CCV	109		106		102				0
05	LCS	108		106		104				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0807628
Lab File ID: q081202.d
Date Analyzed: 08/12/2008
Instrument ID: msdq.i
Time Analyzed: 08:36 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	846555		15.32		925972		10.19		239617		9	
	UPPER LIMIT	1185177		15.65		1296361		10.52		335464		09.33	
	LOWER LIMIT	507933		14.99		555583		09.86		143770		08.67	
	CLIENT SAMPLE NO												
01	AMS 5 DW	835060		15.32		832111		10.19		219949		9	
02	AMS 1 UW	913845		15.32		922026		10.19		238464		9	
03	Lab Blank	895801		15.32		904253		10.19		247426		9	
04	CCV	846555		15.32		925972		10.19		239617		9	
05	LCS	962226		15.32		988756		10.19		255716		9	
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 : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdg.i/02Jul2008.b/g070204.d
Level 2: /chem/msdg.i/02Jul2008.b/g070205.d
Level 3: /chem/msdg.i/02Jul2008.b/g070206.d
Level 4: /chem/msdg.i/02Jul2008.b/g070202.d
Level 5: /chem/msdg.i/02Jul2008.b/g070207.d
Level 6: /chem/msdg.i/02Jul2008.b/g070208.d
Level 7: /chem/msdg.i/02Jul2008.b/g070209.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
3 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
4 Propylene	+++++	1.69705	1.28271	1.35271	1.30467	1.31950		
	1.34982						1.38441	11.230
5 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
6 Dichlorodifluoromethane/Fr12	+++++	3.73040	3.01076	3.22743	2.93436	2.92748		
	2.89445						3.12081	10.318
7 Freon 114	+++++	1.76812	1.65259	1.75550	1.59555	1.31808		
	1.34965						1.57325	12.491
8 Chloromethane	+++++	2.10315	2.20815	2.19223	1.99147	2.25611		
	2.02427						2.12923	5.013
183 Butane	+++++	0.22914	0.25167	0.25634	0.25137	0.24377		
	0.25779						0.24835	4.272

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
9 Vinyl Chloride	+++++	1.36424	1.08708	1.14157	1.09789	1.11391		
	1.13383						1.15642	8.983
10 1,3-Butadiene	1.32784	1.29460	1.13344	1.19142	1.30418	1.21032		
	1.31861						1.25434	6.015
11 Bromomethane	+++++	0.58250	0.51841	0.55884	0.56555	0.53364		
	0.65287						0.56863	8.301
12 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
13 Chloroethane	+++++	0.38151	0.38348	0.46719	0.44805	0.44929		
	0.46150						0.43183	9.009
14 Isopentane	+++++	1.17586	1.27112	1.28829	1.25724	1.26742		
	1.26610						1.25434	3.171
15 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
16 Trichlorofluoromethane/Fr11	+++++	3.62928	3.98984	4.15787	3.84121	3.48925		
	3.46935						3.76280	7.446
23 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
17 Ethanol	+++++	0.69862	0.78421	0.66565	0.65546	0.69520		
	0.69642						0.69926	6.487

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
22 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
18 1,1-Dichloroethene	+++++	0.68997	0.60915	0.68889	0.55609	0.53318		
	0.52555						0.60047	12.466
19 Freon 113	+++++	1.93016	1.33606	1.70294	1.26063	1.12384		
	1.07208						1.40429	24.254
20 Carbon Disulfide	+++++	3.87801	2.98541	3.68970	2.88164	2.73750		
	2.74845						3.15345	15.866
21 Acetone	+++++	3.67885	4.45936	3.50480	3.81915	3.46138		
	3.51261						3.73936	10.093
24 2-Propanol	+++++	3.04487	4.27610	3.61695	4.14951	3.53278		
	3.86422						3.74741	12.002
25 3-Chloroprene	+++++	0.44076	0.43049	0.52425	0.44137	0.54149		
	0.40900						0.46456	11.724
26 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
176 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
27 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
28 Methylene Chloride	+++++	1.07632	0.78663	1.03282	0.71275	0.91261		
	0.63330						0.85907	20.685
29 MTBE	+++++	3.00204	4.00148	3.10993	4.11183	2.75287		
	3.11124						3.34823	16.880
30 trans-1,2-Dichloroethene	+++++	0.91071	0.89462	0.87494	0.88029	0.76188		
	0.52127						0.80728	18.548
179 tert-Butyl Alcohol	+++++	2.62521	3.23409	2.88892	3.45824	2.77301		
	3.57093						3.09173	12.482
31 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
32 Hexane	+++++	2.61839	2.73707	3.02970	3.06152	2.93872		
	2.79339						2.86313	6.119
33 1,1-Dichloroethane	+++++	3.19066	2.98796	3.01807	2.92569	2.75789		
	2.74303						2.93722	5.765
182 Isopropyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Chlorprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Vinyl Acetate	+++++	6.04160	5.26536	6.48473	6.53517	6.51628		
	5.50143						6.05743	9.216

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
174 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
180 Ethyl tert-Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
184 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
36 cis-1,2-Dichloroethene	+++++	0.84821	0.84215	0.94079	0.88952	0.81981		
	0.78583						0.85438	6.364
37 2-Butanone	+++++	0.65460	0.71384	0.78438	0.78191	0.70159		
	0.67457						0.71848	7.542
169 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
38 Tetrahydrofuran	+++++	2.82866	3.20102	2.89749	3.25010	2.87602		
	3.29551						3.05813	6.940
40 Chloroform	3.42006	3.13680	3.09237	3.06071	3.06307	2.75411		
	2.72873						3.03655	7.794
41 Cyclohexane	+++++	1.96974	2.08341	2.23917	2.17983	1.96985		
	1.91122						2.05887	6.348
42 1,1,1-Trichloroethane	+++++	3.28393	3.06651	3.27894	3.19136	2.94794		
	2.93745						3.11769	5.030

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
43 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
44 Carbon Tetrachloride	+++++	3.10000	3.04511	2.60060	2.55497	2.91377		
	2.86342						2.84631	7.918
46 Benzene	1.17872	1.19578	1.21156	1.26242	1.23701	1.03384		
	0.95172						1.15301	9.994
45 2,2,4-Trimethylpentane	+++++	3.24134	3.04769	3.34390	3.26647	3.19760		
	3.20584						3.21714	3.055
48 1,2-Dichloroethane	+++++	0.69251	0.72073	0.73628	0.75456	0.65933		
	0.67267						0.70601	5.286
181 tert-Amyl Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Heptane	+++++	1.00577	1.12136	1.33490	1.42170	1.27954		
	1.24697						1.23504	12.141
50 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
52 Trichloroethene	+++++	0.52125	0.48002	0.51097	0.50382	0.42687		
	0.39244						0.47256	10.949
2 Methylcyclohexane	+++++	2.79122	2.80110	3.09914	3.01289	2.76069		
	2.67551						2.85676	5.700

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
53 1,2-Dichloropropane	+++++	0.50890	0.51110	0.52675	0.55118	0.48618	0.48529	0.51157	4.900
54 1,4-Dioxane	+++++	0.23379	0.24521	0.27513	0.29372	0.25681	0.26285	0.26125	8.175
66 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Bromodichloromethane	+++++	0.78473	0.80580	0.87484	0.91606	0.79922	0.79501	0.82928	6.431
56 cis-1,3-Dichloropropene	+++++	0.51111	0.54276	0.65325	0.71019	0.62781	0.62162	0.61112	11.948
58 4-Methyl-2-pentanone	+++++	1.22552	1.45324	1.66082	1.88225	1.67153	1.75877	1.60869	14.579
60 Toluene	+++++	1.28955	1.34422	1.45931	1.50287	1.28246	1.24810	1.35442	7.661
57 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 trans-1,3-Dichloropropene	+++++	0.59649	0.63532	0.76333	0.82183	0.76299	0.74606	0.72100	11.962
63 1,1,2-Trichloroethane	+++++	0.52157	0.54162	0.56247	0.56535	0.50573	0.46743	0.52736	7.081

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
64 Tetrachloroethene	+++++	0.69199	0.69792	0.74733	0.73467	0.63693	0.56950	0.67972	9.770
62 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2-Hexanone	+++++	0.51921	0.61044	0.74152	0.81981	0.74071	0.77617	0.70131	16.162
68 Dibromochloromethane	+++++	0.78184	0.79625	0.91860	0.93583	0.84666	0.79154	0.84512	8.007
69 1,2-Dibromoethane	0.26657	0.27727	0.23885	0.26088	0.23815	0.21836	0.15649	0.23665	17.165
71 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Chlorobenzene	+++++	1.39948	1.37319	1.41986	1.42213	1.24519	1.14570	1.33426	8.500
74 Ethyl Benzene	+++++	0.64659	0.68095	0.75952	0.76646	0.67737	0.62089	0.69196	8.564
168 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
75 m,p-Xylene	+++++	0.71433	0.84308	0.94656	0.96843	0.84846	0.77616	0.84950	11.444
76 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 o-Xylene	+++++	0.65968	0.76703	0.89619	0.92785	0.79571	0.74085	0.79789	12.516
78 Styrene	0.83922	1.04055	1.26953	1.47991	1.49212	1.31045	1.20371	1.23364	18.964
79 Bromoform	+++++	0.73592	0.76139	0.86929	0.90086	0.81073	0.73994	0.80302	8.671
170 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Cumene	1.80217	1.91338	2.26614	2.66646	2.71236	2.35877	2.12579	2.26358	15.381
82 1,1,2,2-Tetrachloroethane	+++++	1.40240	1.41228	1.47969	1.49371	1.31318	1.21341	1.38578	7.666
83 Propylbenzene	+++++	2.81941	3.14403	3.50301	3.50843	3.02105	1.97430	2.99504	18.989
65 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Start Cal Date : 02-JUL-2008 08:28
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
172 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 4-Ethyltoluene	+++++	+++++	+++++	+++++	2.99311	2.57119	1.80445	2.45625	24.534
175 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,3,5-Trimethylbenzene	1.67800	1.90166	2.20002	2.38115	2.45273	2.10426	1.78046	2.07118	14.312
86 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 1,2,4-Trimethylbenzene	1.43836	1.63165	1.93092	2.29064	2.37462	2.08797	1.85670	1.94441	17.407
88 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 1,3-Dichlorobenzene	+++++	1.27382	1.29445	1.48098	1.46236	1.27508	1.16201	1.32478	9.295
70 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 1,4-Dichlorobenzene	+++++	1.34402	1.39562	1.52516	1.50514	1.31120	1.15382	1.37250	9.981

Air Toxics Ltd.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
171 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
91 alpha-chlorotoluene	+++++	1.13013	1.39949	1.88998	2.10712	2.01552		
	1.79623						1.72308	22.062
92 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
94 1,2-Dichlorobenzene	+++++	1.26148	1.29339	1.41512	1.38217	1.21075		
	1.07966						1.27376	9.546
95 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
177 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 1,2,4-Trichlorobenzene	+++++	1.02647	0.91850	1.13629	1.05392	1.03482		
	0.87597						1.00766	9.422
97 Hexachlorobutadiene	+++++	0.91669	0.84566	1.00438	0.89558	0.83484		
	0.69464						0.86530	11.936
98 Naphthalene	+++++	1.70392	1.75700	2.34233	2.24743	2.24453		
	1.93233						2.03792	13.543

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
178 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
$ 47 1,2-Dichloroethane-d4	1.90933	1.98207	1.80107	1.82545	1.87311	1.94981			
	2.09479							1.91937	5.240
$ 59 Toluene-d8	1.00416	0.99583	1.04667	1.05361	1.05013	1.02619			
	1.05982							1.03377	2.460
$ 81 Bromofluorobenzene	0.56930	0.57384	0.57197	0.58262	0.60193	0.59635			
	0.57033							0.58091	2.288

Calibration History

Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Start Cal Date: 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
02-JUL-2008 09:43	AFCEElow	/chem/msdg.i/02Jul2008.b/g070204.d
Cal Level: 2 , Cal Amount: 0.50000		
02-JUL-2008 10:12	Hilocurve+Ensr	/chem/msdg.i/02Jul2008.b/g070205.d
Cal Level: 3 , Cal Amount: 2.00000		
02-JUL-2008 11:01	AT08mdl	/chem/msdg.i/02Jul2008.b/g070206.d
Cal Level: 4 , Cal Amount: 10.00000		
02-JUL-2008 08:28	AT08mdl	/chem/msdg.i/02Jul2008.b/g070202.d
Cal Level: 5 , Cal Amount: 25.00000		
02-JUL-2008 11:32	AT08mdl	/chem/msdg.i/02Jul2008.b/g070207.d
Cal Level: 6 , Cal Amount: 50.00000		
02-JUL-2008 12:20	AT08mdl	/chem/msdg.i/02Jul2008.b/g070208.d
Cal Level: 7 , Cal Amount: 100.00000		
02-JUL-2008 13:24	AT08	/chem/msdg.i/02Jul2008.b/g070209.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 25.000
02-JUL-2008 11:32 | AT08mdl | /chem/msdg.i/02Jul2008.b/g070207a.d
Ccal Level: 5 , Ccal Amount: 25.000
02-JUL-2008 11:32 | AT08mdl | /chem/msdg.i/02Jul2008.b/g070207.d

Initial Calibration Narrative

A 7-point initial calibration curve with a linear range of 0.30ppbv to100ppbv was analyzed on 7/02/08 on MSD-G.

BCM : 356533
1,4-DFB: 1324634
CB-d5: 1242028

@ Air Toxics Ltd.

MSD-G

Logbook #: 1640

0053

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.58
75	30.0 – 60.0% of mass 95	52.60
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.66
173	Less than 2.0% of mass 174	(0.81)[1]
174	Greater than 50.0% of mass 95	69.40
175	5.0 – 9.0% of mass 174	(7.06)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.26)[1]
177	5.0 – 9.0% of mass 176	(6.48)[2]

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

BFB Injection Date: 7/2/08
BFB Injection Time: 0802
BFB File ID: G070201
Tekmar Purge Flow: ~~LR 7/2/08~~
Vacuum: 6.10×10^{-6}

IS/S Std.#: 1541-145	Exp. Date: 8/4/08
BCM ~~3055944~~	~~2883853~~ 514
1,4-DFB 1200887	1272384
CB-d5 ~~1113681~~	~~1176782~~ LR 7/2/08

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

Verify 176/174 m/z Ratio: 453824 / 466624 x 100 = 97.26

NOAH Cart #: NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1265268)}{(1200887)} \times \frac{(10.0)}{(1.04536)} = 10.079$

Reported Result 10.079

File ID: G070202
Compound: Total8
Initials: LR

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	G070201	BFB Tune Check	1470-431	50ng	2µl	1.00	7/2/08	0802	LR	
2	✓	02	~~ICAL Lvl 4 (CCV-1 (25ppbv)~~	1541-159A	10ppbv	200mL			0828	LR	
3	✓	03	SYSTEM BLANK	-	dry	500mL			0913	LR	
4	✓	04	ICAL Lvl 1	1612-36	0.3ppbv	75mL			0943	LR	
5	✓	05	2		0.5ppbv	125mL			1012	LR	
6	✓	06	3	✓	2.0ppbv	500mL			1101	LR	
7	✓	07	5	1541-159A	25ppbv	500mL			1132	LR	CCV
8	✓	08	6	1612-36	50ppbv	125mL			1220	LR	
9	✓	09	7	✓	100ppbv	250mL	↓	↓	1324	LR	ICAL 7029

Signature

7/2/08
Date

@ Air Toxics Ltd.

MSD-G-

Logbook #: 1640

0054

10	X	G070210	ICAL Lvl 8	1612-36	200ppbv	5mL	1.0	71205	1357	LR	
11	X	11	System Blank	—	dry	5mL			1501	LR	
12	✓	12	LCS-1 (50ppbv)	1541-1553	25ppbv	250mL			1550	LR	ICAL LCS
13		13	LCSD (50ppbv)	1	1	1					
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
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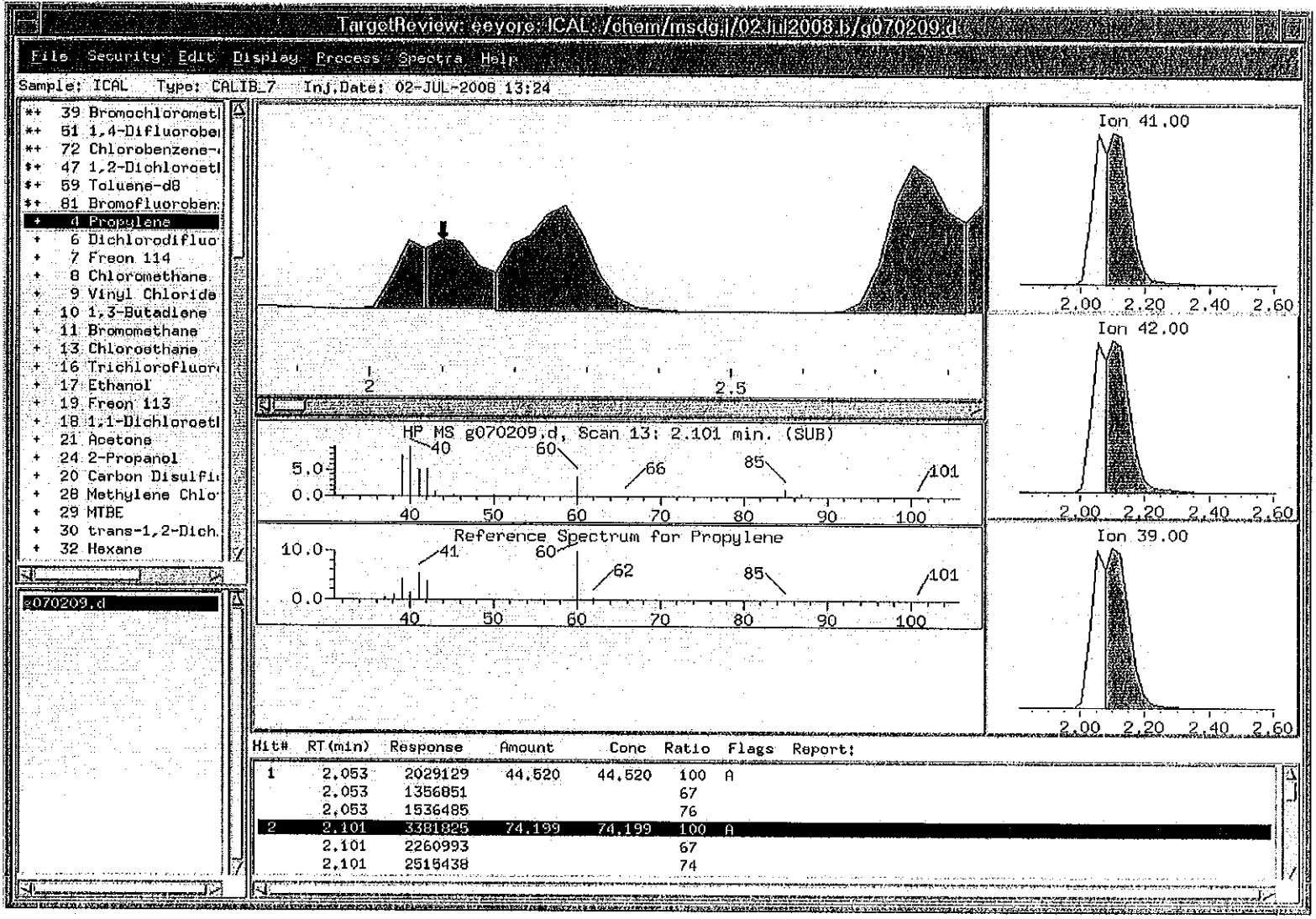
27											
28											
29											
30											
31											
32											

LR 71205

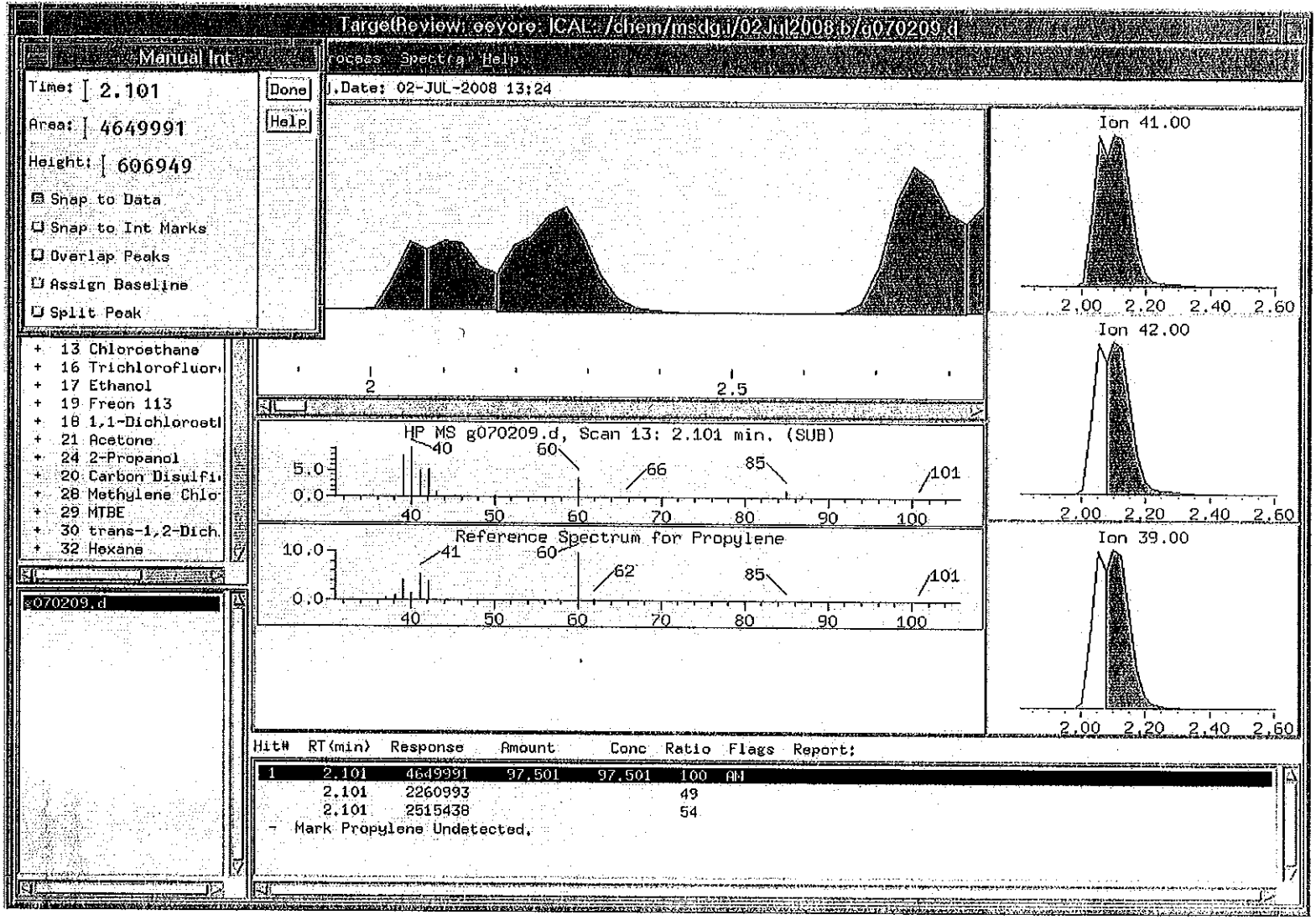
Comments:

Date



Team VOC

Date / Initial	7/3/08 cl
Poor Integration	
Split Peak	✓
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	



Team VOC

Date / Initial	7/30/08 W / NW
Poor Integration	
Split Peak	✓
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070212.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 02-JUL-2008 15:50
Operator : lmr Inst ID: msdg.i
Smp Info : 250ml #1541-153;LCS-1;LCS-1
Misc Info : 50ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 14:14 lrandolp Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.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	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	331456	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	258406			0.00- 30.00	77.96
9.002	9.002 (1.000)	49	891173			0.00- 30.00	268.87
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1362037	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	229117			0.00- 46.78	16.82
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1287365	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	822577			0.00- 30.00	63.90
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	652194	10.2516	10.252	80.00- 120.00	100.00
9.668	9.668 (1.074)	67	363202			0.00- 30.00	55.69
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1470013	10.4402	10.440	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	177484			0.00- 42.14	12.07

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	927337			34.50- 94.50	63.08
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	737476	9.86143	9.861	80.00- 120.00	100.00
17.201	17.201 (1.123)	95	1118145			113.13- 173.13	151.62
17.226	17.226 (1.125)	176	713940			66.52- 126.52	96.81
4 Propylene					CAS #: 115-07-1		
2.149	2.101 (0.239)	41	1091086	23.7776	23.778	80.00- 120.00	100.00
2.149	2.125 (0.239)	42	717137			0.00- 30.00	65.73
2.149	2.125 (0.239)	39	791447			0.00- 30.00	72.54
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.294	2.270 (0.255)	85	2140682	20.6947	20.695	80.00- 120.00	100.00
2.294	2.270 (0.255)	87	690149			1.53- 61.53	32.24
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	1077377	20.6607	20.661	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	359684			0.00- 30.00	33.39
2.752	2.752 (0.306)	85	1788275			0.00- 30.00	165.98
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1675984	23.7477	23.748	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	483332			0.00- 30.00	28.84
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.291 (0.367)	62	871696	22.7417	22.742	80.00- 120.00	100.00
3.325	3.308 (0.369)	64	273889			0.00- 59.65	31.42
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.430 (0.379)	54	996899	23.9778	23.978	80.00- 120.00	100.00
3.412	3.430 (0.379)	39	1242541			0.00- 30.00	124.64
11 Bromomethane					CAS #: 74-83-9		
4.350	4.351 (0.483)	94	345044	18.3069	18.307	80.00- 120.00	100.00
4.350	4.351 (0.483)	96	325718			64.87- 124.87	94.40
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	338867	23.6748	23.675	80.00- 120.00	100.00
4.724	4.724 (0.525)	49	144132			0.00- 30.00	42.53
4.724	4.724 (0.525)	66	100571			0.00- 30.00	29.68
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	2555514	20.4900	20.490	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	1652816			33.99- 93.99	64.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	538303	23.2253	23.225	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	109035			0.00- 30.00	20.26
6.225	6.225 (0.692)	46	202573			0.00- 30.00	37.63
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	988653	21.2404	21.240	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	631479			31.73- 91.73	63.87
6.390	6.390 (0.710)	101	1377377			0.00- 30.00	139.32
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	486800	24.4586	24.459	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	2176639			0.00- 30.00	447.13
6.335	6.335 (0.704)	96	775426			0.00- 30.00	159.29
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	2905369	23.4411	23.441	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	636084			0.00- 30.00	21.89
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	3250505	26.1694	26.169	80.00- 120.00	100.00
7.049	7.049 (0.783)	43	660224			0.00- 30.00	20.31
7.049	7.049 (0.783)	59	98458			0.00- 30.00	3.03
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	2345966	22.4445	22.444	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	605929	21.2797	21.280	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	1915606			297.52- 357.52	316.14
7.213	7.213 (0.801)	51	547394			0.00- 30.00	90.34
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	2566151	23.1228	23.123	80.00- 120.00	100.00
7.515	7.515 (0.835)	57	1282061			0.00- 30.00	49.96
7.543	7.543 (0.838)	41	2047510			0.00- 30.00	79.79
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	447386	16.7198	16.720	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	1899426			0.00- 30.00	424.56
7.515	7.515 (0.835)	96	717047			0.00- 30.00	160.27
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	2570795	27.0895	27.089	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	2208838			0.00- 30.00	85.92
7.790	7.790 (0.865)	86	259527			0.00- 30.00	10.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	2469218	25.3628	25.363	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	731350			0.00- 59.84	29.62
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	586006	24.6071	24.607	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	4557673			672.66- 732.66	777.75
8.792	8.792 (0.977)	57	275071			0.00- 30.00	46.94
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.748 (0.972)	98	709295	25.0465	25.046	80.00- 120.00	100.00
8.747	8.748 (0.972)	61	2035759			241.26- 301.26	287.01
8.747	8.748 (0.972)	96	1084945			128.30- 188.30	152.96
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2712310	26.7582	26.758	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	536989			0.00- 30.00	19.80
9.002	9.002 (1.000)	72	584774			0.00- 30.00	21.56
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	2357343	23.4216	23.422	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1460768			33.23- 93.23	61.97
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2462550	23.8301	23.830	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1589541			33.51- 93.51	64.55
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1700001	24.9112	24.911	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	3180536			0.00- 30.00	187.09
9.197	9.197 (1.022)	41	2179796			0.00- 30.00	128.22
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2334035	24.7400	24.740	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2440589			73.88- 133.88	104.57
46 Benzene					CAS #: 71-43-2		
9.638	9.639 (0.946)	78	3492009	22.2359	22.236	80.00- 120.00	100.00
9.638	9.639 (0.946)	77	816789			0.00- 30.00	23.39
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	2209922	22.9813	22.981	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	671165			0.00- 30.00	30.37
49 Heptane					CAS #: 142-82-5		
9.871	9.872 (0.969)	43	4247341	25.2492	25.249	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.872 (0.969)	57	1704202			0.00- 30.00	40.12
9.871	9.872 (0.969)	100	345780			0.00- 30.00	8.14
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	1356745	21.0791	21.079	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1493649			0.00- 30.00	110.09
10.475	10.475 (1.028)	97	952798			0.00- 30.00	70.23
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.861 (1.066)	63	1643093	23.5815	23.581	80.00- 120.00	100.00
10.861	10.861 (1.066)	62	1169608			40.07- 100.07	71.18
10.861	10.861 (1.066)	41	1408905			61.40- 121.40	85.75
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	832776	23.4036	23.404	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	861582			64.32- 124.32	103.46
11.029	11.029 (1.083)	57	282393			0.00- 30.00	33.91
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	2573896	22.7878	22.788	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1602833			31.92- 91.92	62.27
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.090 (1.187)	75	1987033	23.8719	23.872	80.00- 120.00	100.00
12.089	12.090 (1.187)	77	622874			1.56- 61.56	31.35
12.089	12.090 (1.187)	39	1811811			60.10- 120.10	91.18
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	5688249	25.9608	25.961	80.00- 120.00	100.00
12.379	12.379 (1.215)	58	1621163			0.00- 30.00	28.50
12.379	12.379 (1.215)	85	492167			0.00- 30.00	8.65
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	4361241	23.6411	23.641	80.00- 120.00	100.00
12.644	12.644 (1.241)	92	2551162			28.58- 88.58	58.50
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	2181049	23.4978	23.498	80.00- 120.00	100.00
13.308	13.308 (0.869)	77	675355			1.05- 61.05	30.96
13.308	13.308 (0.869)	39	1822349			54.43- 114.43	83.55
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	1446829	21.3111	21.311	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	899546			32.27- 92.27	62.17
13.665	13.665 (0.892)	83	1314174			59.54- 119.54	90.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	1861137	21.2689	21.269	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1419389			46.83- 106.83	76.26
13.747	13.747 (0.897)	131	1378858			42.93- 102.93	74.09
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	2330675	25.8148	25.815	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	5830118			227.44- 287.44	250.15
14.132	14.132 (0.922)	100	306304			0.00- 30.00	13.14
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	2388905	21.9573	21.957	80.00- 120.00	100.00
14.352	14.352 (0.937)	208	129405			0.00- 30.00	5.42
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.517 (0.948)	107	629175	20.6518	20.652	80.00- 120.00	100.00
14.516	14.517 (0.948)	109	581956			64.21- 124.21	92.50
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	3608115	21.0058	21.006	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1151551			1.79- 61.79	31.92
15.370	15.370 (1.003)	77	2353756			33.30- 93.30	65.24
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	1933522	21.7052	21.705	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	6309378			0.00- 30.00	326.32
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	2411723	22.0527	22.053	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	5025580			0.00- 30.00	208.38
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	2314871	22.5364	22.536	80.00- 120.00	100.00
16.376	16.376 (1.069)	91	5118699			186.60- 246.60	221.12
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	3819676	24.0511	24.051	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	2143323			24.82- 84.82	56.11
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	2316928	22.4121	22.412	80.00- 120.00	100.00
16.711	16.711 (1.091)	171	1183478			0.00- 30.00	51.08
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	6896905	23.6677	23.668	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	1783960			0.00- 56.16	25.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	3784884	21.2157	21.216	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2362580			33.53- 93.53	62.42
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	8944699	23.1986	23.199	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	1924388			0.00- 30.00	21.51
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	7470156	23.6241	23.624	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	2155379			0.00- 59.12	28.85
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	5987011	22.4538	22.454	80.00- 120.00	100.00
17.820	17.820 (1.163)	120	2772993			16.79- 76.79	46.32
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	5898581	23.5645	23.564	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	2568297			13.82- 73.82	43.54
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	3670323	21.5208	21.521	80.00- 120.00	100.00
18.929	18.929 (1.236)	148	2326492			0.00- 30.00	63.39
18.929	18.929 (1.236)	111	1620101			0.00- 30.00	44.14
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	3702907	20.9571	20.957	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2326050			0.00- 30.00	62.82
19.083	19.083 (1.246)	111	1564619			0.00- 30.00	42.25
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	5495235	24.7731	24.773	80.00- 120.00	100.00
19.316	19.316 (1.261)	126	1030882			0.00- 30.00	18.76
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	3415594	20.8294	20.829	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	2131141			32.78- 92.78	62.39
19.625	19.625 (1.281)	111	1543895			14.53- 74.53	45.20
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.431 (1.399)	180	2947168	22.7189	22.719	80.00- 120.00	100.00
21.430	21.431 (1.399)	182	2819111			65.13- 125.13	95.65
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2416391	21.6920	21.692	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1530742			0.00- 30.00	63.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	6630340	25.2724	25.272	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	817559			0.00- 30.00	12.33
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	358156	23.2596	23.260	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	2598470			0.00- 30.00	725.51
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.639 (1.071)	56	2627303	24.6385	24.638	80.00- 120.00	100.00
9.638	9.639 (1.071)	99	282282			0.00- 30.00	10.74
9.638	9.639 (1.071)	41	2666345			0.00- 30.00	101.49
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	5387536	26.8334	26.833	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	433421			0.00- 30.00	8.04
8.174	8.174 (0.908)	86	244635			0.00- 30.00	4.54
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	209234	25.4184	25.418	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	2205138			0.00- 30.00	1053.91
14 Isopentane					CAS #: 78-78-4		
4.827	4.848 (0.536)	57	961247	23.1204	23.120	80.00- 120.00	100.00
4.827	4.848 (0.536)	43	1803659			0.00- 30.00	187.64
4.827	4.848 (0.536)	42	1546236			0.00- 30.00	160.86
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	2316601	24.4654	24.465	80.00- 120.00	100.00
10.644	10.644 (1.182)	98	1015473			0.00- 30.00	43.83
10.644	10.644 (1.182)	55	2904806			0.00- 30.00	125.39
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	2816988	27.4889	27.489	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	2047510			0.00- 30.00	72.68
7.515	7.515 (0.835)	57	1282061			0.00- 30.00	45.51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070212.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	331456	-7.03
51 1,4-Difluorobenze	1324634	794780	1854488	1362037	2.82
72 Chlorobenzene-d5	1242028	745217	1738839	1287365	3.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	0.00

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

Report Date: 03-Jul-2008 14:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02Jul2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Dichlorodifluorome	25.000	20.695	82.78	70-130
7 Freon 114	25.000	20.661	82.64	70-130
8 Chloromethane	25.000	23.748	94.99	70-130
9 Vinyl Chloride	25.000	22.742	90.97	70-130
10 1,3-Butadiene	25.000	23.978	95.91	60-140
11 Bromomethane	25.000	18.307	73.23	70-130
13 Chloroethane	25.000	23.675	94.70	70-130
16 Trichlorofluoromet	25.000	20.490	81.96	70-130
17 Ethanol	25.000	23.225	92.90	60-140
19 Freon 113	25.000	21.240	84.96	70-130
18 1,1-Dichloroethene	25.000	24.459	97.83	70-130
21 Acetone	25.000	23.441	93.76	60-140
20 Carbon Disulfide	25.000	22.444	89.78	60-140
24 2-Propanol	25.000	26.169	104.68	60-140
28 Methylene Chloride	25.000	21.280	85.12	70-130
29 MTBE	25.000	23.123	92.49	60-140
30 trans-1,2-Dichloro	25.000	16.720	66.88	60-140
32 Hexane	25.000	27.089	108.36	60-140
33 1,1-Dichloroethane	25.000	25.363	101.45	70-130
36 cis-1,2-Dichloroet	25.000	25.046	100.19	70-130
37 2-Butanone	25.000	24.607	98.43	60-140
38 Tetrahydrofuran	25.000	26.758	107.03	60-140
40 Chloroform	25.000	23.422	93.69	70-130
41 Cyclohexane	25.000	24.911	99.64	60-140
42 1,1,1-Trichloroeth	25.000	23.830	95.32	70-130
44 Carbon Tetrachlori	25.000	24.740	98.96	70-130
46 Benzene	25.000	22.236	88.94	70-130
49 Heptane	25.000	25.249	101.00	60-140
48 1,2-Dichloroethane	25.000	22.981	91.93	70-130
52 Trichloroethene	25.000	21.079	84.32	70-130
53 1,2-Dichloropropan	25.000	23.581	94.33	70-130
54 1,4-Dioxane	25.000	23.404	93.61	60-140
55 Bromodichlorometha	25.000	22.788	91.15	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
56 cis-1,3-Dichloropr	25.000	23.872	95.49	70-130
58 4-Methyl-2-pentano	25.000	25.961	103.84	60-140
60 Toluene	25.000	23.641	94.56	70-130
61 trans-1,3-Dichloro	25.000	23.498	93.99	70-130
63 1,1,2-Trichloroeth	25.000	21.311	85.24	70-130
67 2-Hexanone	25.000	25.815	103.26	60-140
64 Tetrachloroethene	25.000	21.269	85.08	70-130
68 Dibromochlorometha	25.000	21.957	87.83	60-140
69 1,2-Dibromoethane	25.000	20.652	82.61	70-130
73 Chlorobenzene	25.000	21.006	84.02	70-130
74 Ethyl Benzene	25.000	21.705	86.82	70-130
75 m,p-Xylene	25.000	22.053	88.21	70-130
77 o-Xylene	25.000	22.536	90.15	70-130
78 Styrene	25.000	24.051	96.20	70-130
79 Bromoform	25.000	22.412	89.65	60-140
80 Cumene	25.000	23.668	94.67	60-140
82 1,1,2,2-Tetrachlor	25.000	21.216	84.86	70-130
83 Propylbenzene	25.000	23.199	92.79	60-140
84 4-Ethyltoluene	25.000	23.624	94.50	60-140
85 1,3,5-Trimethylben	25.000	22.454	89.82	70-130
87 1,2,4-Trimethylben	25.000	23.564	94.26	70-130
89 1,3-Dichlorobenzen	25.000	21.521	86.08	70-130
90 1,4-Dichlorobenzen	25.000	20.957	83.83	70-130
91 alpha-chlorotoluen	25.000	24.773	99.09	70-130
94 1,2-Dichlorobenzen	25.000	20.829	83.32	70-130
96 1,2,4-Trichloroben	25.000	22.719	90.88	70-130
97 Hexachlorobutadien	25.000	21.692	86.77	60-130
98 Naphthalene	25.000	25.272	101.09	60-140
25 3-Chloroprene	25.000	23.260	93.04	60-140
45 2,2,4-Trimethylpen	25.000	24.638	98.55	60-140
179 tert-Butyl Alcohol	25.000	27.489	109.96	60-140
183 Butane	25.000	25.418	101.67	60-140
14 Isopentane	25.000	23.120	92.48	60-140
2 Methylcyclohexane	25.000	24.465	97.86	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.252	102.52	70-130
$ 59 Toluene-d8	10.000	10.440	104.40	70-130
$ 81 Bromofluorobenzene	10.000	9.861	98.61	70-130

Data File: /chem/msdg.i/02Jul2008.b/g070212.d

Date : 02-JUL-2008 15:50

Client ID: LCS-1

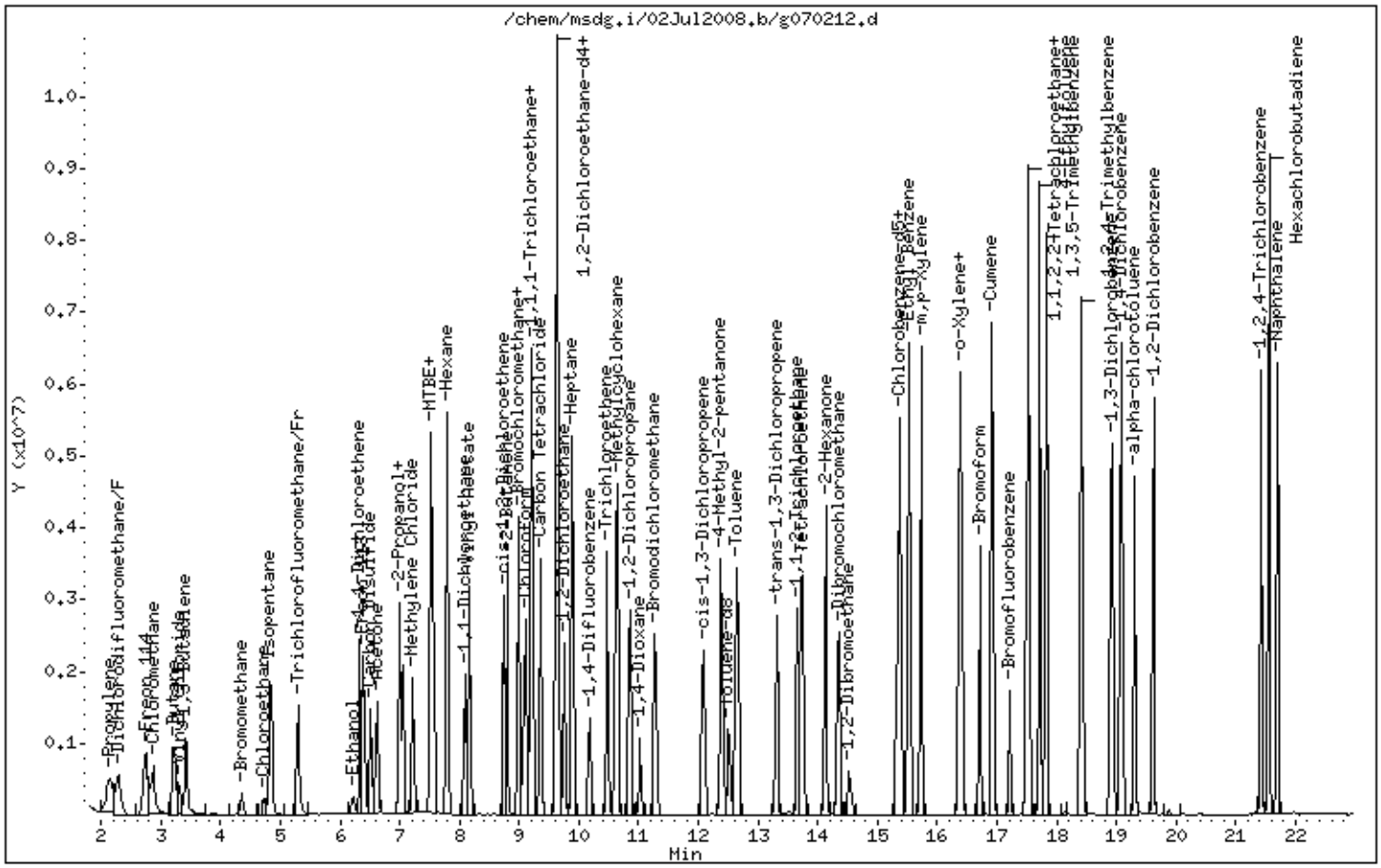
Instrument: msdg.i

Sample Info: 250ml #1541-153;LCS-1;LCS-1

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070204.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 02-JUL-2008 09:43
Operator : lmr Inst ID: msdg.i
Smp Info : 75mL #1612-56
Misc Info : 2.0ppbv -> 0.3ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:47 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 09:43 Cal File: g070204.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	268631	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	199822			0.00- 30.00		74.39
9.002	9.002 (1.000)	49	622008			0.00- 30.00		231.55
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1147547	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	191199			0.00- 46.78		16.66
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1042115	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	630399			0.00- 30.00		60.49
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	512906	10.0000	9.948	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	247256			0.00- 30.00		48.21
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1152318	10.0000	9.714	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	142314			0.00- 42.14		12.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	737490			34.50- 94.50	64.00
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	593275	10.0000	9.800	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	837644			113.13- 173.13	141.19
17.226	17.226 (1.125)	176	571216			66.52- 126.52	96.28
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	10701	0.30000	0.3176	70.00- 130.00	100.00
3.412	3.412 (0.379)	39	16557			0.00- 30.00	154.72
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	27562	0.30000	0.3379	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	17153			33.23- 93.23	62.23
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	40579	0.30000	0.3067	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	9998			0.00- 30.00	24.64
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	26237	0.30000	0.2041	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	16079			24.82- 84.82	61.28
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	56342	0.30000	0.2388	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	15231			0.00- 56.16	27.03
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	8334	0.30000	0.3379	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	6523			64.21- 124.21	78.27
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	52460	0.30000	0.2430	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	25934			16.79- 76.79	49.44
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	44968	0.30000	0.2219	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	20097			13.82- 73.82	44.69

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070204.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 2.0ppbv -> 0.3ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	268631	-24.65
51 1,4-Difluorobenze	1324634	794780	1854488	1147547	-13.37
72 Chlorobenzene-d5	1242028	745217	1738839	1042115	-16.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070204.d

Date : 02-JUL-2008 09:43

Client ID: Level 1

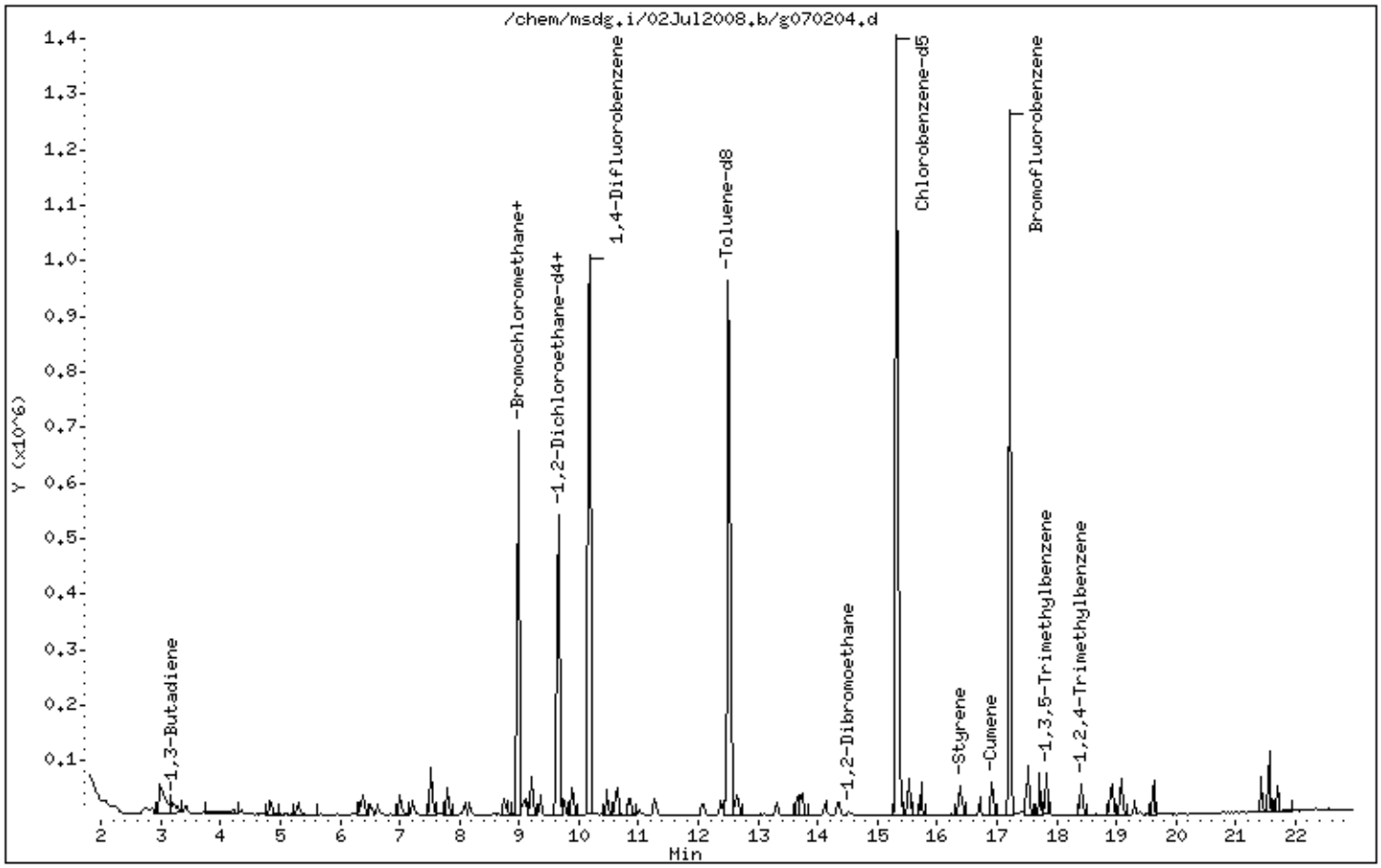
Instrument: msdg.i

Sample Info: 75mL #1612-56

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070205.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 02-JUL-2008 10:12
Operator : lmr Inst ID: msdg.i
Smp Info : 125mL #1612-56
Misc Info : 2.0ppbv -> 0.5ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 10:12 Cal File: g070205.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Hilocurve+Ensr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	252155	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	197769			0.00- 30.00		78.43
9.002	9.002 (1.000)	49	586693			0.00- 30.00		232.67
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1088424	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	183217			0.00- 46.78		16.83
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	964315	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	602426			0.00- 30.00		62.47
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	499788	10.0000	10.327	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	237343			0.00- 30.00		47.49
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1083880	10.0000	9.633	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	127598			0.00- 42.14		11.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	679968			34.50- 94.50	62.73
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	553361	10.0000	9.878	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	787510			113.13- 173.13	142.31
17.226	17.226 (1.125)	176	515429			66.52- 126.52	93.15
4 Propylene					CAS #: 115-07-1		
2.077	2.077 (0.231)	41	21396	0.50000	0.6129	70.00- 130.00	100.00
2.101	2.101 (0.233)	42	12622			0.00- 30.00	58.99
2.077	2.077 (0.231)	39	16270			0.00- 30.00	76.04
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.246	2.246 (0.249)	85	47032	0.50000	0.5977	70.00- 130.00	100.00
2.246	2.246 (0.249)	87	16158			1.53- 61.53	34.36
7 Freon 114					CAS #: 76-14-2		
2.728	2.728 (0.303)	135	22292	0.50000	0.5619	70.00- 130.00	100.00
2.728	2.728 (0.303)	137	7082			0.00- 30.00	31.77
2.728	2.728 (0.303)	85	37979			0.00- 30.00	170.37
8 Chloromethane					CAS #: 74-87-3		
2.848	2.848 (0.316)	50	26516	0.50000	0.4939	70.00- 130.00	100.00
2.848	2.848 (0.316)	52	8315			0.00- 30.00	31.36
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	17200	0.50000	0.5898	70.00- 130.00	100.00
3.291	3.291 (0.366)	64	18530			0.00- 59.65	107.73
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	16322	0.50000	0.5160	70.00- 130.00	100.00
3.412	3.412 (0.379)	39	19101			0.00- 30.00	117.03
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	7344	0.50000	0.5122	70.00- 130.00	100.00
4.350	4.350 (0.483)	96	6709			64.87- 124.87	91.35
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	4810	0.50000	0.4417	70.00- 130.00	100.00
4.724	4.724 (0.525)	49	2640			0.00- 30.00	54.89
4.724	4.724 (0.525)	66	1873			0.00- 30.00	38.94
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	45757	0.50000	0.4822	70.00- 130.00	100.00
5.304	5.304 (0.589)	103	28686			33.99- 93.99	62.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.198	6.198 (0.688)	45	8808	0.50000	0.4995	70.00- 130.00	100.00
6.225	6.225 (0.692)	43	1816			0.00- 30.00	20.62
6.225	6.225 (0.692)	46	2558			0.00- 30.00	29.04
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	8699	0.50000	0.5745	70.00- 130.00	100.00
6.335	6.335 (0.704)	61	30389			0.00- 30.00	349.34
6.335	6.335 (0.704)	96	13918			0.00- 30.00	160.00
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	24335	0.50000	0.6872	70.00- 130.00	100.00
6.390	6.390 (0.710)	153	15348			31.73- 91.73	63.07
6.390	6.390 (0.710)	101	32286			0.00- 30.00	132.67
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	48893	0.50000	0.6149	70.00- 130.00	100.00
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	46382	0.50000	0.4919	70.00- 130.00	100.00
6.637	6.637 (0.737)	58	11476			0.00- 30.00	24.74
24 2-Propanol					CAS #: 67-63-0		
7.021	7.021 (0.780)	45	38389	0.50000	0.4063	70.00- 130.00	100.00
7.021	7.021 (0.780)	43	11893			0.00- 30.00	30.98
7.021	7.021 (0.780)	59	1050			0.00- 30.00	2.74
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	5557	0.50000	0.4744	70.00- 130.00	100.00
6.994	6.994 (0.777)	41	40499			0.00- 30.00	728.79
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	13570	0.50000	0.6264	70.00- 130.00	100.00
7.213	7.213 (0.801)	49	34607			297.52- 357.52	255.03
7.213	7.213 (0.801)	51	11238			0.00- 30.00	82.82
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	37849	0.50000	0.4483	70.00- 130.00	100.00
7.515	7.515 (0.835)	57	16985			0.00- 30.00	44.88
7.515	7.515 (0.835)	41	38715			0.00- 30.00	102.29
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	11482	0.50000	0.5640	70.00- 130.00	100.00
7.515	7.515 (0.835)	61	35728			0.00- 30.00	311.17
7.515	7.515 (0.835)	96	17581			0.00- 30.00	153.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	33012	0.50000	0.4572	70.00- 130.00	100.00
7.790	7.790 (0.865)	43	31726			0.00- 30.00	96.10
7.790	7.790 (0.865)	86	3670			0.00- 30.00	11.12
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	40227	0.50000	0.5431	70.00- 130.00	100.00
8.092	8.092 (0.899)	65	12298			0.00- 59.84	30.57
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	76171	0.50000	0.4987	70.00- 130.00	100.00
8.174	8.174 (0.908)	42	7124			0.00- 30.00	9.35
8.174	8.174 (0.908)	86	3018			0.00- 30.00	3.96
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	10694	0.50000	0.4964	70.00- 130.00	100.00
8.747	8.747 (0.972)	61	31712			241.26- 301.26	296.54
8.747	8.747 (0.972)	96	17367			128.30- 188.30	162.40
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	8253	0.50000	0.4555	70.00- 130.00	100.00
8.792	8.792 (0.977)	43	62634			672.66- 732.66	758.92
8.792	8.792 (0.977)	57	3888			0.00- 30.00	47.11
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	35663	0.50000	0.4625	70.00- 130.00	100.00
9.002	9.002 (1.000)	71	7173			0.00- 30.00	20.11
9.002	9.002 (1.000)	72	8848			0.00- 30.00	24.81
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	39548	0.50000	0.5165	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	24821			33.23- 93.23	62.76
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	24834	0.50000	0.4784	70.00- 130.00	100.00
9.197	9.197 (1.022)	56	39484			0.00- 30.00	158.99
9.197	9.197 (1.022)	41	30302			0.00- 30.00	122.02
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	41403	0.50000	0.5267	70.00- 130.00	100.00
9.229	9.229 (1.025)	99	25299			33.51- 93.51	61.10
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	39084	0.50000	0.5446	70.00- 130.00	100.00
9.359	9.359 (1.040)	117	43473			73.88- 133.88	111.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	65076	0.50000	0.5186	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	15733			0.00- 30.00	24.18
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	40866	0.50000	0.5038	70.00- 130.00	100.00
9.638	9.638 (1.071)	99	5296			0.00- 30.00	12.96
9.638	9.638 (1.071)	41	45568			0.00- 30.00	111.51
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	37687	0.50000	0.4904	70.00- 130.00	100.00
9.755	9.755 (0.958)	64	14688			0.00- 30.00	38.97
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	54735	0.50000	0.4072	70.00- 130.00	100.00
9.872	9.872 (0.969)	57	23356			0.00- 30.00	42.67
9.872	9.872 (0.969)	100	4286			0.00- 30.00	7.83
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	28367	0.50000	0.5515	70.00- 130.00	100.00
10.475	10.475 (1.028)	95	28263			0.00- 30.00	99.63
10.475	10.475 (1.028)	97	18463			0.00- 30.00	65.09
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.836	10.836 (1.064)	63	27695	0.50000	0.4974	70.00- 130.00	100.00
10.836	10.836 (1.064)	62	18905			40.07- 100.07	68.26
10.861	10.861 (1.066)	41	30026			61.40- 121.40	108.42
54 1,4-Dioxane					CAS #: 123-91-1		
11.005	11.005 (1.080)	88	12723	0.50000	0.4474	70.00- 130.00	100.00
11.029	11.029 (1.083)	58	12675			64.32- 124.32	99.62
11.029	11.029 (1.083)	57	4978			0.00- 30.00	39.13
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	42706	0.50000	0.4731	70.00- 130.00	100.00
11.270	11.270 (1.106)	85	26651			31.92- 91.92	62.41
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	27815	0.50000	0.4182	70.00- 130.00	100.00
12.089	12.089 (1.187)	77	7774			1.56- 61.56	27.95
12.065	12.065 (1.185)	39	24232			60.10- 120.10	87.12
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	66694	0.50000	0.3809	70.00- 130.00	100.00
12.379	12.379 (1.215)	58	18949			0.00- 30.00	28.41
12.379	12.379 (1.215)	85	6853			0.00- 30.00	10.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	70179	0.50000	0.4760	70.00- 130.00	100.00
12.644	12.644 (1.241)	92	41941			28.58- 88.58	59.76
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	28760	0.50000	0.4136	70.00- 130.00	100.00
13.308	13.308 (0.869)	77	8561			1.05- 61.05	29.77
13.308	13.308 (0.869)	39	33021			54.43- 114.43	114.82
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	25148	0.50000	0.4945	70.00- 130.00	100.00
13.665	13.665 (0.892)	99	17065			32.27- 92.27	67.86
13.665	13.665 (0.892)	83	24278			59.54- 119.54	96.54
64 Tetrachloroethene					CAS #: 127-18-4		
13.720	13.720 (0.896)	166	33365	0.50000	0.5090	70.00- 130.00	100.00
13.747	13.747 (0.897)	129	27468			46.83- 106.83	82.33
13.747	13.747 (0.897)	131	22898			42.93- 102.93	68.63
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	25034	0.50000	0.3702	70.00- 130.00	100.00
14.132	14.132 (0.922)	43	66335			227.44- 287.44	264.98
14.132	14.132 (0.922)	100	3342			0.00- 30.00	13.35
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	37697	0.50000	0.4626	70.00- 130.00	100.00
14.352	14.352 (0.937)	208	1819			0.00- 30.00	4.83
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	13369	0.50000	0.5858	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	11875			64.21- 124.21	88.82
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	67477	0.50000	0.5244	70.00- 130.00	100.00
15.370	15.370 (1.003)	114	23397			1.79- 61.79	34.67
15.370	15.370 (1.003)	77	52317			33.30- 93.30	77.53
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	31176	0.50000	0.4672	70.00- 130.00	100.00
15.525	15.525 (1.013)	91	99334			0.00- 30.00	318.62
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	34442	0.50000	0.4204	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	72654			0.00- 30.00	210.95
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	31807	0.50000	0.4134	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
77 o-Xylene (continued)							
16.376	16.376 (1.069)	91	69614			186.60- 246.60	218.86
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	50171	0.50000	0.4217	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	29267			24.82- 84.82	58.33
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	35483	0.50000	0.4582	70.00- 130.00	100.00
16.711	16.711 (1.091)	171	17731			0.00- 30.00	49.97
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	92255	0.50000	0.4226	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	26378			0.00- 56.16	28.59
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	67618	0.50000	0.5060	70.00- 130.00	100.00
17.484	17.484 (1.141)	85	42675			33.53- 93.53	63.11
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	135940	0.50000	0.4707	70.00- 130.00	100.00
17.536	17.536 (1.145)	120	28535			0.00- 30.00	20.99
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	110142	0.50000	0.4650	70.00- 130.00	100.00
17.716	17.716 (1.157)	120	32221			0.00- 59.12	29.25
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	91690	0.50000	0.4591	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	43444			16.79- 76.79	47.38
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	78671	0.50000	0.4196	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	33873			13.82- 73.82	43.06
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	61418	0.50000	0.4808	70.00- 130.00	100.00
18.929	18.929 (1.236)	148	37983			0.00- 30.00	61.84
18.929	18.929 (1.236)	111	27006			0.00- 30.00	43.97
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	64803	0.50000	0.4896	70.00- 130.00	100.00
19.083	19.083 (1.246)	148	41245			0.00- 30.00	63.65
19.083	19.083 (1.246)	111	28060			0.00- 30.00	43.30
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	54490	0.50000	0.3279	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 alpha-chlorotoluene (continued)							
19.316	19.316 (1.261)	126	10198			0.00- 30.00	18.72
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	60823	0.50000	0.4952	70.00- 130.00	100.00
19.625	19.625 (1.281)	148	38567			32.78- 92.78	63.41
19.625	19.625 (1.281)	111	26253			14.53- 74.53	43.16
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	49492	0.50000	0.5093	70.00- 130.00	100.00
21.430	21.430 (1.399)	182	45990			65.13- 125.13	92.92
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	44199	0.50000	0.5297	70.00- 130.00	100.00
21.559	21.559 (1.407)	223	29257			0.00- 30.00	66.19
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	82156	0.50000	0.4180	70.00- 130.00	100.00
21.688	21.688 (1.416)	127	11596			0.00- 30.00	14.11
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	35191	0.50000	0.4885	70.00- 130.00	100.00
10.644	10.644 (1.182)	98	14549			0.00- 30.00	41.34
10.644	10.644 (1.182)	55	41227			0.00- 30.00	117.15
14 Isopentane					CAS #: 78-78-4		
4.827	4.827 (0.536)	57	14825	0.50000	0.4687	70.00- 130.00	100.00
4.827	4.827 (0.536)	43	31490			0.00- 30.00	212.41
4.827	4.827 (0.536)	42	29689			0.00- 30.00	200.26
183 Butane					CAS #: 106-97-8		
3.204	3.204 (0.356)	58	2889	0.50000	0.4613	70.00- 130.00	100.00
3.221	3.221 (0.358)	43	38516			0.00- 30.00	1333.19
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.515	7.515 (0.835)	59	33098	0.50000	0.4246	70.00- 130.00	100.00
7.515	7.515 (0.835)	41	38715			0.00- 30.00	116.97
7.515	7.515 (0.835)	57	16985			0.00- 30.00	51.32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070205.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 2.0ppbv -> 0.5ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	252155	-29.28
51 1,4-Difluorobenze	1324634	794780	1854488	1088424	-17.83
72 Chlorobenzene-d5	1242028	745217	1738839	964315	-22.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070205.d

Date : 02-JUL-2008 10:12

Client ID: Level 2

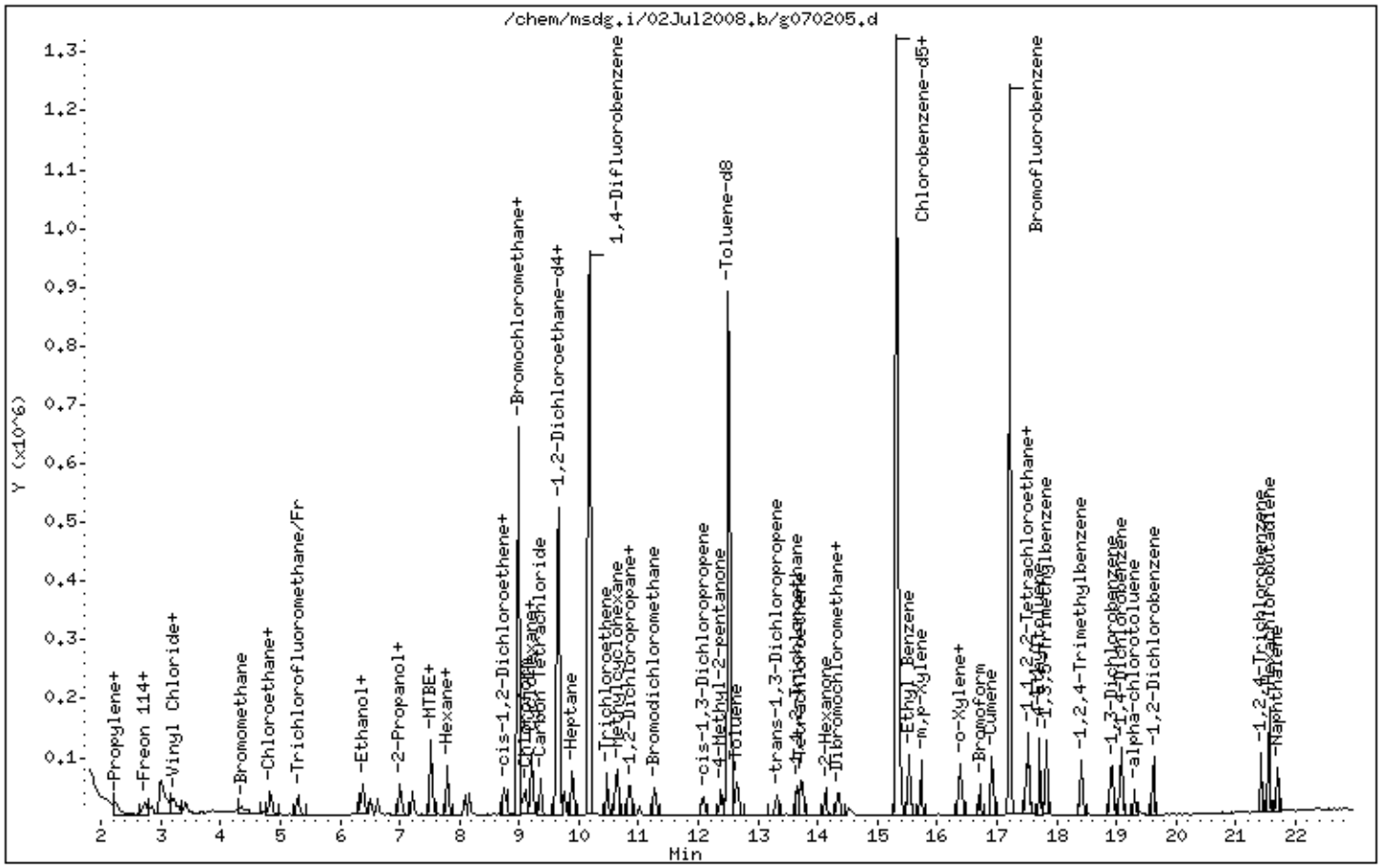
Instrument: msdg.i

Sample Info: 125mL #1612-56

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070206.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 02-JUL-2008 11:01
Operator : lmr Inst ID: msdg.i
Smp Info : 500mL #1612-56
Misc Info : 2.0ppbv -> 2.0ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 11:01 Cal File: g070206.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	350227	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	273114			0.00- 30.00		77.98
9.002	9.002 (1.000)	49	787004			0.00- 30.00		224.71
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1385748	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	236198			0.00- 46.78		17.04
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1272763	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	782023			0.00- 30.00		61.44
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	630783	10.0000	9.384	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	314140			0.00- 30.00		49.80
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1450415	10.0000	10.125	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	173845			0.00- 42.14		11.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	914819			34.50- 94.50	63.07
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	727983	10.0000	9.846	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	1042823			113.13- 173.13	143.25
17.226	17.226 (1.125)	176	709021			66.52- 126.52	97.40
4 Propylene					CAS #: 115-07-1		
2.149	2.149 (0.239)	41	89848	2.00000	1.853	70.00- 130.00	100.00
2.149	2.149 (0.239)	42	61247			0.00- 30.00	68.17
2.149	2.149 (0.239)	39	69014			0.00- 30.00	76.81
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.294	2.294 (0.255)	85	210890	2.00000	1.929	70.00- 130.00	100.00
2.294	2.294 (0.255)	87	69434			1.53- 61.53	32.92
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	115756	2.00000	2.101	70.00- 130.00	100.00
2.752	2.752 (0.306)	137	36211			0.00- 30.00	31.28
2.752	2.752 (0.306)	85	194688			0.00- 30.00	168.19
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	154671	2.00000	2.074	70.00- 130.00	100.00
2.896	2.896 (0.322)	52	33803			0.00- 30.00	21.85
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	76145	2.00000	1.880	70.00- 130.00	100.00
3.308	3.308 (0.367)	64	39716			0.00- 59.65	52.16
10 1,3-Butadiene					CAS #: 106-99-0		
3.447	3.447 (0.383)	54	79392	2.00000	1.807	70.00- 130.00	100.00
3.430	3.430 (0.381)	39	116444			0.00- 30.00	146.67
11 Bromomethane					CAS #: 74-83-9		
4.371	4.371 (0.486)	94	36312	2.00000	1.823	70.00- 130.00	100.00
4.371	4.371 (0.486)	96	35555			64.87- 124.87	97.92
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	26861	2.00000	1.776	70.00- 130.00	100.00
4.724	4.724 (0.525)	49	13579			0.00- 30.00	50.55
4.724	4.724 (0.525)	66	9607			0.00- 30.00	35.77
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	279470	2.00000	2.121	70.00- 130.00	100.00
5.304	5.304 (0.589)	103	148968			33.99- 93.99	53.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	54930	2.00000	2.243	70.00- 130.00	100.00
6.225	6.225 (0.692)	43	13518			0.00- 30.00	24.61
6.225	6.225 (0.692)	46	21403			0.00- 30.00	38.96
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	93585	2.00000	1.903	70.00- 130.00	100.00
6.390	6.390 (0.710)	153	58770			31.73- 91.73	62.80
6.390	6.390 (0.710)	101	133301			0.00- 30.00	142.44
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	42668	2.00000	2.029	70.00- 130.00	100.00
6.335	6.335 (0.704)	61	178424			0.00- 30.00	418.17
6.335	6.335 (0.704)	96	61313			0.00- 30.00	143.70
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	312358	2.00000	2.385	70.00- 130.00	100.00
6.637	6.637 (0.737)	58	60599			0.00- 30.00	19.40
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	299521	2.00000	2.282	70.00- 130.00	100.00
7.049	7.049 (0.783)	43	73635			0.00- 30.00	24.58
7.049	7.049 (0.783)	59	8916			0.00- 30.00	2.98
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	209114	2.00000	1.893	70.00- 130.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	55100	2.00000	1.831	70.00- 130.00	100.00
7.213	7.213 (0.801)	49	173843			297.52- 357.52	315.50
7.213	7.213 (0.801)	51	50971			0.00- 30.00	92.51
29 MTBE					CAS #: 1634-04-4		
7.543	7.543 (0.838)	73	280285	2.00000	2.390	70.00- 130.00	100.00
7.543	7.543 (0.838)	57	103268			0.00- 30.00	36.84
7.543	7.543 (0.838)	41	240230			0.00- 30.00	85.71
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	62664	2.00000	2.216	70.00- 130.00	100.00
7.515	7.515 (0.835)	61	206306			0.00- 30.00	329.23
7.515	7.515 (0.835)	96	107797			0.00- 30.00	172.02
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	191719	2.00000	1.912	70.00- 130.00	100.00
7.790	7.790 (0.865)	43	172552			0.00- 30.00	90.00
7.790	7.790 (0.865)	86	22389			0.00- 30.00	11.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	209293	2.00000	2.034	70.00- 130.00	100.00
8.092	8.092 (0.899)	65	62109			0.00- 59.84	29.68
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	50001	2.00000	1.987	70.00- 130.00	100.00
8.792	8.792 (0.977)	43	353296			672.66- 732.66	706.58
8.792	8.792 (0.977)	57	22144			0.00- 30.00	44.29
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	58989	2.00000	1.971	70.00- 130.00	100.00
8.747	8.747 (0.972)	61	160978			241.26- 301.26	272.89
8.747	8.747 (0.972)	96	93365			128.30- 188.30	158.28
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	224217	2.00000	2.093	70.00- 130.00	100.00
9.002	9.002 (1.000)	71	47857			0.00- 30.00	21.34
9.002	9.002 (1.000)	72	53495			0.00- 30.00	23.86
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	216606	2.00000	2.037	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	136911			33.23- 93.23	63.21
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	214795	2.00000	1.967	70.00- 130.00	100.00
9.229	9.229 (1.025)	99	135334			33.51- 93.51	63.01
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	145933	2.00000	2.024	70.00- 130.00	100.00
9.197	9.197 (1.022)	56	222474			0.00- 30.00	152.45
9.197	9.197 (1.022)	41	175978			0.00- 30.00	120.59
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	213296	2.00000	2.140	70.00- 130.00	100.00
9.359	9.359 (1.040)	117	214507			73.88- 133.88	100.57
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	335782	2.00000	2.102	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	78465			0.00- 30.00	23.37
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	199751	2.00000	2.042	70.00- 130.00	100.00
9.755	9.755 (0.958)	64	64156			0.00- 30.00	32.12
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	310785	2.00000	1.816	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.871 (0.969)	57	128058			0.00- 30.00	41.20
9.871	9.871 (0.969)	100	28174			0.00- 30.00	9.07
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	133036	2.00000	2.032	70.00- 130.00	100.00
10.475	10.475 (1.028)	95	137329			0.00- 30.00	103.23
10.475	10.475 (1.028)	97	87403			0.00- 30.00	65.70
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.861 (1.066)	63	141652	2.00000	1.998	70.00- 130.00	100.00
10.861	10.861 (1.066)	62	99817			40.07- 100.07	70.47
10.861	10.861 (1.066)	41	131137			61.40- 121.40	92.58
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	67959	2.00000	1.877	70.00- 130.00	100.00
11.029	11.029 (1.083)	58	66544			64.32- 124.32	97.92
11.029	11.029 (1.083)	57	23172			0.00- 30.00	34.10
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	223327	2.00000	1.943	70.00- 130.00	100.00
11.270	11.270 (1.106)	85	139695			31.92- 91.92	62.55
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	150425	2.00000	1.776	70.00- 130.00	100.00
12.089	12.089 (1.187)	77	48992			1.56- 61.56	32.57
12.089	12.089 (1.187)	39	136265			60.10- 120.10	90.59
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	402764	2.00000	1.807	70.00- 130.00	100.00
12.379	12.379 (1.215)	58	107203			0.00- 30.00	26.62
12.379	12.379 (1.215)	85	36164			0.00- 30.00	8.98
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	372550	2.00000	1.985	70.00- 130.00	100.00
12.644	12.644 (1.241)	92	217225			28.58- 88.58	58.31
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	161722	2.00000	1.762	70.00- 130.00	100.00
13.308	13.308 (0.869)	77	49764			1.05- 61.05	30.77
13.308	13.308 (0.869)	39	138803			54.43- 114.43	85.83
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	137871	2.00000	2.054	70.00- 130.00	100.00
13.665	13.665 (0.892)	99	83188			32.27- 92.27	60.34
13.665	13.665 (0.892)	83	118762			59.54- 119.54	86.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	177658	2.00000	2.054	70.00- 130.00	100.00
13.747	13.747 (0.897)	129	135200			46.83- 106.83	76.10
13.747	13.747 (0.897)	131	131454			42.93- 102.93	73.99
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	155388	2.00000	1.741	70.00- 130.00	100.00
14.132	14.132 (0.922)	43	404266			227.44- 287.44	260.17
14.132	14.132 (0.922)	100	22697			0.00- 30.00	14.61
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	202688	2.00000	1.884	70.00- 130.00	100.00
14.352	14.352 (0.937)	208	10568			0.00- 30.00	5.21
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	60801	2.00000	2.019	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	56910			64.21- 124.21	93.60
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	349549	2.00000	2.058	70.00- 130.00	100.00
15.370	15.370 (1.003)	114	112415			1.79- 61.79	32.16
15.370	15.370 (1.003)	77	226234			33.30- 93.30	64.72
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	173337	2.00000	1.968	70.00- 130.00	100.00
15.525	15.525 (1.013)	91	558410			0.00- 30.00	322.15
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	214607	2.00000	1.985	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	444408			0.00- 30.00	207.08
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	195250	2.00000	1.923	70.00- 130.00	100.00
16.376	16.376 (1.069)	91	423862			186.60- 246.60	217.09
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	323163	2.00000	2.058	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	180004			24.82- 84.82	55.70
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	193813	2.00000	1.896	70.00- 130.00	100.00
16.711	16.711 (1.091)	171	100452			0.00- 30.00	51.83
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	576853	2.00000	2.002	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	155331			0.00- 56.16	26.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	359499	2.00000	2.038	70.00- 130.00	100.00
17.484	17.484 (1.141)	85	232096			33.53- 93.53	64.56
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	800320	2.00000	2.099	70.00- 130.00	100.00
17.536	17.536 (1.145)	120	178591			0.00- 30.00	22.31
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	673407	2.00000	2.154	70.00- 130.00	100.00
17.716	17.716 (1.157)	120	190760			0.00- 59.12	28.33
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	560022	2.00000	2.124	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	259865			16.79- 76.79	46.40
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	491521	2.00000	1.986	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	223749			13.82- 73.82	45.52
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	329505	2.00000	1.954	70.00- 130.00	100.00
18.929	18.929 (1.236)	148	214174			0.00- 30.00	65.00
18.929	18.929 (1.236)	111	143713			0.00- 30.00	43.61
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	355258	2.00000	2.034	70.00- 130.00	100.00
19.083	19.083 (1.246)	148	227350			0.00- 30.00	64.00
19.083	19.083 (1.246)	111	142707			0.00- 30.00	40.17
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	356243	2.00000	1.624	70.00- 130.00	100.00
19.315	19.315 (1.261)	126	69329			0.00- 30.00	19.46
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	329235	2.00000	2.031	70.00- 130.00	100.00
19.625	19.625 (1.281)	148	197431			32.78- 92.78	59.97
19.625	19.625 (1.281)	111	144589			14.53- 74.53	43.92
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	233807	2.00000	1.823	70.00- 130.00	100.00
21.430	21.430 (1.399)	182	217358			65.13- 125.13	92.96
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	215264	2.00000	1.955	70.00- 130.00	100.00
21.559	21.559 (1.407)	223	134237			0.00- 30.00	62.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	447248	2.00000	1.724	70.00- 130.00	100.00
21.688	21.688 (1.416)	127	58285			0.00- 30.00	13.03
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	30154	2.00000	1.853	70.00- 130.00	100.00
6.994	6.994 (0.777)	41	235914			0.00- 30.00	782.36
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	213477	2.00000	1.895	70.00- 130.00	100.00
9.638	9.638 (1.071)	99	24585			0.00- 30.00	11.52
9.638	9.638 (1.071)	41	242316			0.00- 30.00	113.51
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	368814	2.00000	1.738	70.00- 130.00	100.00
8.174	8.174 (0.908)	42	34744			0.00- 30.00	9.42
8.174	8.174 (0.908)	86	18259			0.00- 30.00	4.95
183 Butane					CAS #: 106-97-8		
3.239	3.239 (0.360)	58	17628	2.00000	2.027	70.00- 130.00	100.00
3.239	3.239 (0.360)	43	187342			0.00- 30.00	1062.75
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	89036	2.00000	2.027	70.00- 130.00	100.00
4.848	4.848 (0.539)	43	179816			0.00- 30.00	201.96
4.848	4.848 (0.539)	42	155371			0.00- 30.00	174.50
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	196204	2.00000	1.961	70.00- 130.00	100.00
10.644	10.644 (1.182)	98	86858			0.00- 30.00	44.27
10.644	10.644 (1.182)	55	222132			0.00- 30.00	113.21
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	226533	2.00000	2.092	70.00- 130.00	100.00
7.543	7.543 (0.838)	41	240230			0.00- 30.00	106.05
7.543	7.543 (0.838)	57	103268			0.00- 30.00	45.59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070206.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 2.0ppbv -> 2.0ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	350227	-1.77
51 1,4-Difluorobenze	1324634	794780	1854488	1385748	4.61
72 Chlorobenzene-d5	1242028	745217	1738839	1272763	2.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070206.d

Date : 02-JUL-2008 11:01

Client ID: Level 3

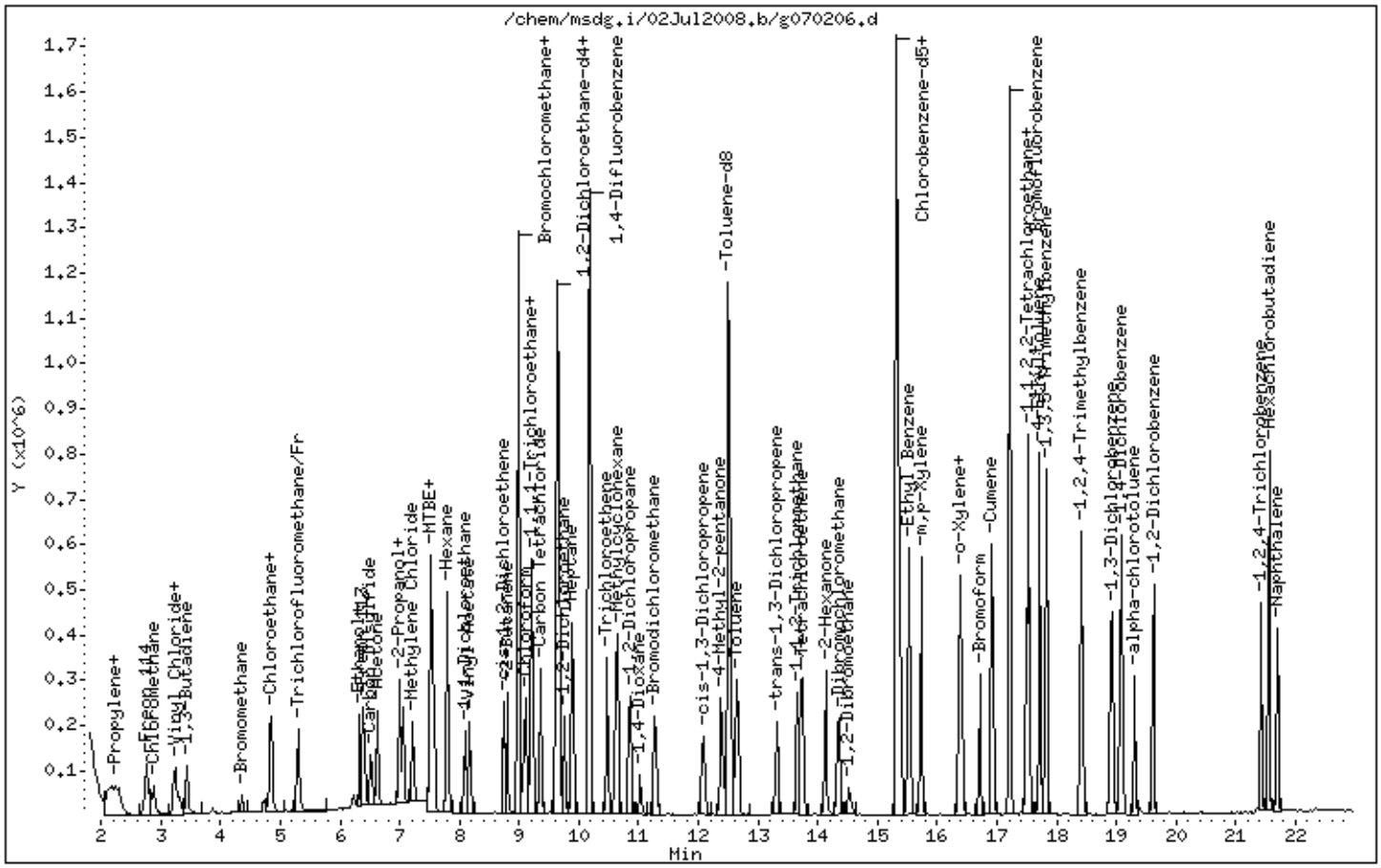
Instrument: msdg.i

Sample Info: 500mL #1612-56

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070202.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 02-JUL-2008 08:28
Operator : lmr Inst ID: msdg.i
Smp Info : 200ml #1541-159A
Misc Info : 25ppbv -> 10ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:47 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 08:28 Cal File: g070202.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	305594	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	227065			0.00- 30.00		74.30
9.002	9.002 (1.000)	49	669589			0.00- 30.00		219.11
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1200887	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	194037			0.00- 46.78		16.16
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1113684	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	700703			0.00- 30.00		62.92
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	557846	10.0000	9.511	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	282845			0.00- 30.00		50.70
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1265268	10.0000	10.192	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	149796			0.00- 42.14		11.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	828841			34.50- 94.50	65.51
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	648860	10.0000	10.030	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	936915			113.13- 173.13	144.39
17.226	17.226 (1.125)	176	632021			66.52- 126.52	97.40
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	413380	10.0000	9.771	70.00- 130.00	100.00
2.101	2.101 (0.233)	42	275574			0.00- 30.00	66.66
2.101	2.101 (0.233)	39	315775			0.00- 30.00	76.39
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.246	2.246 (0.249)	85	986283	10.0000	10.342	70.00- 130.00	100.00
2.246	2.246 (0.249)	87	315074			1.53- 61.53	31.95
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	536471	10.0000	11.158	70.00- 130.00	100.00
2.752	2.752 (0.306)	137	178765			0.00- 30.00	33.32
2.728	2.728 (0.303)	85	792276			0.00- 30.00	147.68
8 Chloromethane					CAS #: 74-87-3		
2.848	2.848 (0.316)	50	669931	10.0000	10.296	70.00- 130.00	100.00
2.848	2.848 (0.316)	52	184976			0.00- 30.00	27.61
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.291 (0.366)	62	348858	10.0000	9.872	70.00- 130.00	100.00
3.291	3.291 (0.366)	64	140897			0.00- 59.65	40.39
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	364090	10.0000	9.498	70.00- 130.00	100.00
3.412	3.412 (0.379)	39	475007			0.00- 30.00	130.46
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	170779	10.0000	9.828	70.00- 130.00	100.00
4.350	4.350 (0.483)	96	159989			64.87- 124.87	93.68
13 Chloroethane					CAS #: 75-00-3		
4.723	4.723 (0.525)	64	142769	10.0000	10.819	70.00- 130.00	100.00
4.723	4.723 (0.525)	49	65115			0.00- 30.00	45.61
4.723	4.723 (0.525)	66	39815			0.00- 30.00	27.89
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	1270619	10.0000	11.050	70.00- 130.00	100.00
5.304	5.304 (0.589)	103	786240			33.99- 93.99	61.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.198	6.198 (0.688)	45	203420	10.0000	9.519	70.00- 130.00	100.00
6.198	6.198 (0.688)	43	47487			0.00- 30.00	23.34
6.198	6.198 (0.688)	46	78116			0.00- 30.00	38.40
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	520409	10.0000	12.127	70.00- 130.00	100.00
6.390	6.390 (0.710)	153	328024			31.73- 91.73	63.03
6.390	6.390 (0.710)	101	702175			0.00- 30.00	134.93
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	210522	10.0000	11.472	70.00- 130.00	100.00
6.335	6.335 (0.704)	61	798371			0.00- 30.00	379.23
6.335	6.335 (0.704)	96	333196			0.00- 30.00	158.27
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	1071047	10.0000	9.373	70.00- 130.00	100.00
6.637	6.637 (0.737)	58	228637			0.00- 30.00	21.35
24 2-Propanol					CAS #: 67-63-0		
7.021	7.021 (0.780)	45	1105319	10.0000	9.652	70.00- 130.00	100.00
7.021	7.021 (0.780)	43	246192			0.00- 30.00	22.27
7.021	7.021 (0.780)	59	30991			0.00- 30.00	2.80
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	1127551	10.0000	11.700	70.00- 130.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	315623	10.0000	12.022	70.00- 130.00	100.00
7.213	7.213 (0.801)	49	754782			297.52- 357.52	239.14
7.213	7.213 (0.801)	51	219323			0.00- 30.00	69.49
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	950376	10.0000	9.288	70.00- 130.00	100.00
7.515	7.515 (0.835)	57	380653			0.00- 30.00	40.05
7.543	7.543 (0.838)	41	859807			0.00- 30.00	90.47
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	267376	10.0000	10.838	70.00- 130.00	100.00
7.515	7.515 (0.835)	61	843518			0.00- 30.00	315.48
7.515	7.515 (0.835)	96	421178			0.00- 30.00	157.52
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	925858	10.0000	10.582	70.00- 130.00	100.00
7.790	7.790 (0.865)	43	814077			0.00- 30.00	87.93
7.790	7.790 (0.865)	86	104213			0.00- 30.00	11.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	922303	10.0000	10.275	70.00- 130.00	100.00
8.092	8.092 (0.899)	65	271591			0.00- 59.84	29.45
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	239701	10.0000	10.917	70.00- 130.00	100.00
8.792	8.792 (0.977)	43	1642453			672.66- 732.66	685.21
8.792	8.792 (0.977)	57	94889			0.00- 30.00	39.59
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	287499	10.0000	11.011	70.00- 130.00	100.00
8.747	8.747 (0.972)	61	760024			241.26- 301.26	264.36
8.747	8.747 (0.972)	96	432576			128.30- 188.30	150.46
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	885456	10.0000	9.475	70.00- 130.00	100.00
9.002	9.002 (1.000)	71	194182			0.00- 30.00	21.93
9.002	9.002 (1.000)	72	205840			0.00- 30.00	23.25
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	935335	10.0000	10.080	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	592874			33.23- 93.23	63.39
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	1002024	10.0000	10.517	70.00- 130.00	100.00
9.229	9.229 (1.025)	99	634774			33.51- 93.51	63.35
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	684278	10.0000	10.876	70.00- 130.00	100.00
9.197	9.197 (1.022)	56	1143698			0.00- 30.00	167.14
9.197	9.197 (1.022)	41	838371			0.00- 30.00	122.52
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	794728	10.0000	9.137	70.00- 130.00	100.00
9.359	9.359 (1.040)	117	820930			73.88- 133.88	103.30
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	1516024	10.0000	10.949	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	349311			0.00- 30.00	23.04
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	884194	10.0000	10.429	70.00- 130.00	100.00
9.755	9.755 (0.958)	64	270875			0.00- 30.00	30.64
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	1603068	10.0000	10.808	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.871 (0.969)	57	647513			0.00- 30.00	40.39
9.871	9.871 (0.969)	100	144017			0.00- 30.00	8.98
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	613620	10.0000	10.813	70.00- 130.00	100.00
10.475	10.475 (1.028)	95	636515			0.00- 30.00	103.73
10.475	10.475 (1.028)	97	412951			0.00- 30.00	67.30
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.860	10.860 (1.066)	63	632568	10.0000	10.297	70.00- 130.00	100.00
10.860	10.860 (1.066)	62	453247			40.07- 100.07	71.65
10.860	10.860 (1.066)	41	594341			61.40- 121.40	93.96
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	330405	10.0000	10.531	70.00- 130.00	100.00
11.005	11.005 (1.080)	58	316738			64.32- 124.32	95.86
11.005	11.005 (1.080)	57	108378			0.00- 30.00	32.80
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	1050587	10.0000	10.549	70.00- 130.00	100.00
11.270	11.270 (1.106)	85	656424			31.92- 91.92	62.48
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	784480	10.0000	10.689	70.00- 130.00	100.00
12.089	12.089 (1.187)	77	250737			1.56- 61.56	31.96
12.089	12.089 (1.187)	39	696964			60.10- 120.10	88.84
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	1994454	10.0000	10.324	70.00- 130.00	100.00
12.379	12.379 (1.215)	58	568218			0.00- 30.00	28.49
12.379	12.379 (1.215)	85	188069			0.00- 30.00	9.43
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	1752461	10.0000	10.774	70.00- 130.00	100.00
12.644	12.644 (1.241)	92	1016429			28.58- 88.58	58.00
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	850113	10.0000	10.587	70.00- 130.00	100.00
13.308	13.308 (0.869)	77	263512			1.05- 61.05	31.00
13.308	13.308 (0.869)	39	709221			54.43- 114.43	83.43
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	626419	10.0000	10.666	70.00- 130.00	100.00
13.665	13.665 (0.892)	99	379601			32.27- 92.27	60.60
13.665	13.665 (0.892)	83	564160			59.54- 119.54	90.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	832287	10.0000	10.994	70.00- 130.00	100.00
13.747	13.747 (0.897)	129	639529			46.83- 106.83	76.84
13.747	13.747 (0.897)	131	614672			42.93- 102.93	73.85
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	825824	10.0000	10.573	70.00- 130.00	100.00
14.132	14.132 (0.922)	43	2088592			227.44- 287.44	252.91
14.132	14.132 (0.922)	100	119052			0.00- 30.00	14.42
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	1023030	10.0000	10.869	70.00- 130.00	100.00
14.352	14.352 (0.937)	208	54779			0.00- 30.00	5.35
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	290533	10.0000	11.024	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	270643			64.21- 124.21	93.15
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	1581271	10.0000	10.642	70.00- 130.00	100.00
15.370	15.370 (1.003)	114	512114			1.79- 61.79	32.39
15.370	15.370 (1.003)	77	1003344			33.30- 93.30	63.45
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	845867	10.0000	10.976	70.00- 130.00	100.00
15.525	15.525 (1.013)	91	2706168			0.00- 30.00	319.93
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	1054165	10.0000	11.142	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	2167357			0.00- 30.00	205.60
77 o-Xylene					CAS #: 95-47-6		
16.375	16.375 (1.069)	106	998077	10.0000	11.232	70.00- 130.00	100.00
16.375	16.375 (1.069)	91	2182762			186.60- 246.60	218.70
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	1648157	10.0000	11.996	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	885483			24.82- 84.82	53.73
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	968116	10.0000	10.825	70.00- 130.00	100.00
16.711	16.711 (1.091)	171	493628			0.00- 30.00	50.99
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	2969590	10.0000	11.780	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	782854			0.00- 56.16	26.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	1647910	10.0000	10.678	70.00- 130.00	100.00
17.484	17.484 (1.141)	85	1049768			33.53- 93.53	63.70
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	3901244	10.0000	11.696	70.00- 130.00	100.00
17.536	17.536 (1.145)	120	862814			0.00- 30.00	22.12
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	3258369	10.0000	11.911	70.00- 130.00	100.00
17.716	17.716 (1.157)	120	950424			0.00- 59.12	29.17
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	2651845	10.0000	11.496	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	1277500			16.79- 76.79	48.17
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	2551044	10.0000	11.781	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	1135895			13.82- 73.82	44.53
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	1649339	10.0000	11.179	70.00- 130.00	100.00
18.929	18.929 (1.236)	148	1059071			0.00- 30.00	64.21
18.929	18.929 (1.236)	111	700584			0.00- 30.00	42.48
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	1698551	10.0000	11.112	70.00- 130.00	100.00
19.083	19.083 (1.246)	148	1077645			0.00- 30.00	63.44
19.083	19.083 (1.246)	111	694072			0.00- 30.00	40.86
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	2104844	10.0000	10.969	70.00- 130.00	100.00(A)
19.315	19.315 (1.261)	126	415195			0.00- 30.00	19.73
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	1575995	10.0000	11.110	70.00- 130.00	100.00
19.625	19.625 (1.281)	148	984528			32.78- 92.78	62.47
19.625	19.625 (1.281)	111	689956			14.53- 74.53	43.78
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	1265465	10.0000	11.276	70.00- 130.00	100.00
21.430	21.430 (1.399)	182	1233963			65.13- 125.13	97.51
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	1118557	10.0000	11.607	70.00- 130.00	100.00
21.559	21.559 (1.407)	223	714607			0.00- 30.00	63.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	2608619	10.0000	11.494	70.00- 130.00	100.00
21.688	21.688 (1.416)	127	325955			0.00- 30.00	12.50
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	160209	10.0000	11.285	70.00- 130.00	100.00
6.994	6.994 (0.777)	41	1008810			0.00- 30.00	629.68
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	1021877	10.0000	10.394	70.00- 130.00	100.00
9.638	9.638 (1.071)	99	125256			0.00- 30.00	12.26
9.638	9.638 (1.071)	41	1092561			0.00- 30.00	106.92
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	1981695	10.0000	10.705	70.00- 130.00	100.00
8.174	8.174 (0.908)	42	173674			0.00- 30.00	8.76
8.174	8.174 (0.908)	86	101798			0.00- 30.00	5.14
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	78335	10.0000	10.322	70.00- 130.00	100.00
3.221	3.221 (0.358)	43	879789			0.00- 30.00	1123.11
14 Isopentane					CAS #: 78-78-4		
4.827	4.827 (0.536)	57	393694	10.0000	10.271	70.00- 130.00	100.00
4.827	4.827 (0.536)	43	792186			0.00- 30.00	201.22
4.827	4.827 (0.536)	42	689029			0.00- 30.00	175.02
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	947078	10.0000	10.848	70.00- 130.00	100.00
10.644	10.644 (1.182)	98	425038			0.00- 30.00	44.88
10.644	10.644 (1.182)	55	1069902			0.00- 30.00	112.97
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.543	7.543 (0.838)	59	882838	10.0000	9.344	70.00- 130.00	100.00
7.543	7.543 (0.838)	41	859807			0.00- 30.00	97.39
7.515	7.515 (0.835)	57	380653			0.00- 30.00	43.12

QC Flag Legend

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

Report Date: 03-Jul-2008 13:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070202.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 25ppbv -> 10ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	305594	-14.29
51 1,4-Difluorobenze	1324634	794780	1854488	1200887	-9.34
72 Chlorobenzene-d5	1242028	745217	1738839	1113684	-10.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070202.d

Date : 02-JUL-2008 08:28

Client ID: Level 4

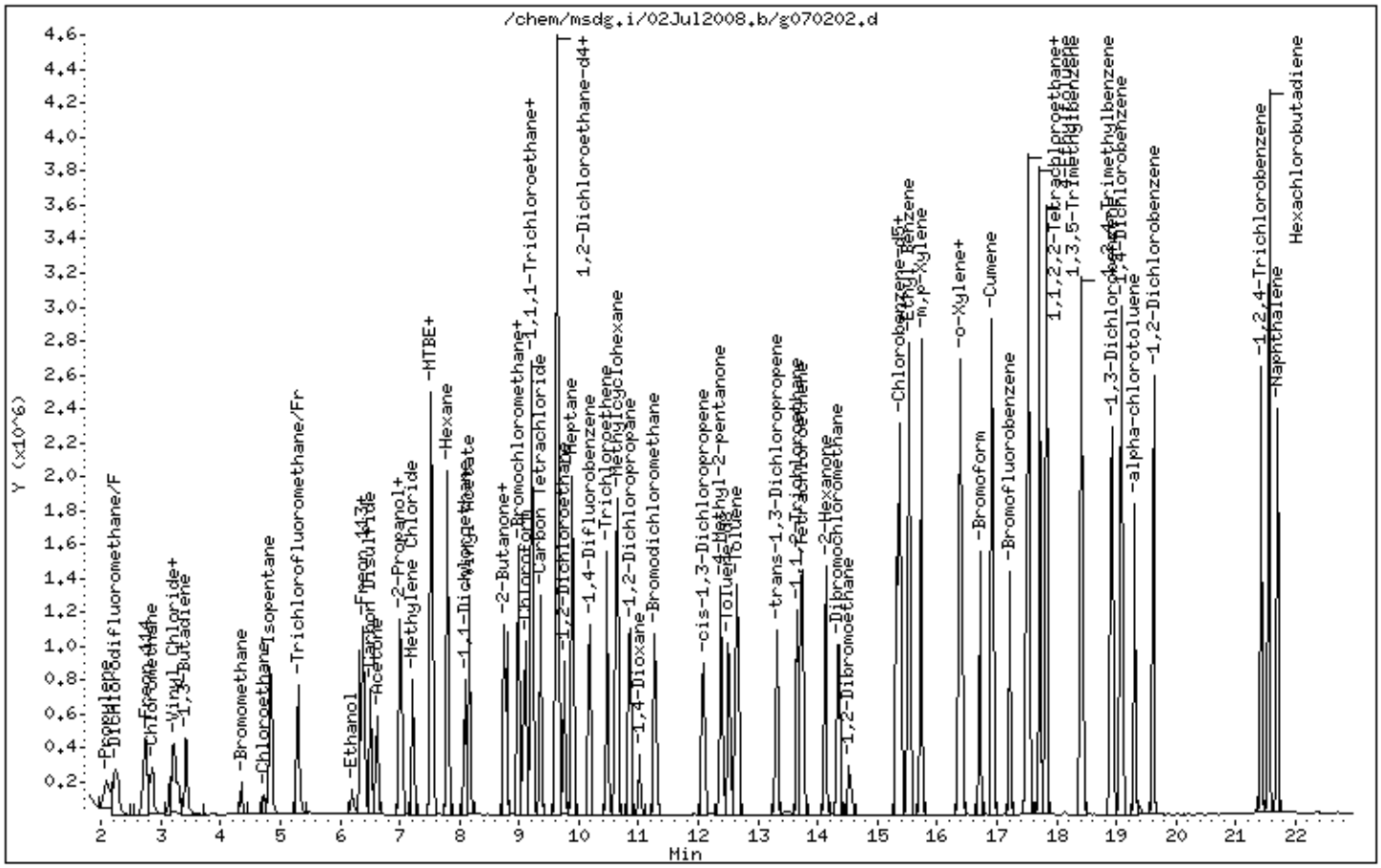
Instrument: msdg.i

Sample Info: 200ml #1541-159A

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070207.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 02-JUL-2008 11:32
Operator : lmr Inst ID: msdg.i
Smp Info : 500mL #1541-159A
Misc Info : 25ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 11:32 Cal File: g070207.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	356533	10.0000		80.00- 120.00		100.00
9.002	9.002 (1.000)	128	273179			46.62- 106.62		76.62
9.002	9.002 (1.000)	49	810944			197.45- 257.45		227.45
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1324634	10.0000		80.00- 120.00		100.00
10.186	10.186 (1.000)	88	222248			0.00- 46.78		16.78
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1242028	10.0000		80.00- 120.00		100.00
15.319	15.319 (1.000)	82	773746			32.30- 92.30		62.30
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	667825	10.0000	9.759	80.00- 120.00		100.00
9.668	9.668 (1.074)	67	371698			25.66- 85.66		55.66
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1391044	10.0000	10.158	80.00- 120.00		100.00
12.499	12.499 (1.227)	70	168872			0.00- 42.14		12.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	897216			34.50- 94.50	64.50
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	747620	10.0000	10.362	80.00- 120.00	100.00
17.201	17.201 (1.123)	95	1070053			113.13- 173.13	143.13
17.226	17.226 (1.125)	176	721593			66.52- 126.52	96.52
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	1162891	25.0000	23.560	80.00- 120.00	100.00
2.125	2.125 (0.236)	42	776309			36.76- 96.76	66.76
2.125	2.125 (0.236)	39	886291			46.21- 106.21	76.21
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.270	2.270 (0.252)	85	2615486	25.0000	23.506	80.00- 120.00	100.00
2.270	2.270 (0.252)	87	824741			1.53- 61.53	31.53
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	1422162	25.0000	25.354	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	466886			2.83- 62.83	32.83
2.752	2.752 (0.306)	85	2047600			113.98- 173.98	143.98
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1775065	25.0000	23.382	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	510025			0.00- 58.73	28.73
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.291 (0.366)	62	978589	25.0000	23.735	80.00- 120.00	100.00
3.308	3.308 (0.367)	64	290180			0.00- 59.65	29.65
10 1,3-Butadiene					CAS #: 106-99-0		
3.430	3.430 (0.381)	54	1162461	25.0000	25.993	80.00- 120.00	100.00
3.430	3.430 (0.381)	39	1512951			100.15- 160.15	130.15
11 Bromomethane					CAS #: 74-83-9		
4.351	4.351 (0.483)	94	504095	25.0000	24.864	80.00- 120.00	100.00
4.351	4.351 (0.483)	96	478222			64.87- 124.87	94.87
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	399358	25.0000	25.938	80.00- 120.00	100.00
4.724	4.724 (0.525)	49	178678			14.74- 74.74	44.74
4.724	4.724 (0.525)	66	118390			0.00- 59.65	29.65
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	3423795	25.0000	25.521	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	2190719			33.99- 93.99	63.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	584235	25.0000	23.434	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	133682			0.00- 52.88	22.88
6.225	6.225 (0.692)	46	221520			7.92- 67.92	37.92
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	1123644	25.0000	22.442	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	693584			31.73- 91.73	61.73
6.390	6.390 (0.710)	101	1540169			107.07- 167.07	137.07
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	495662	25.0000	23.152	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	2224284			418.75- 478.75	448.75
6.335	6.335 (0.704)	96	778606			127.08- 187.08	157.08
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	3404134	25.0000	25.533	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	658265			0.00- 49.34	19.34
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	3698595	25.0000	27.682	80.00- 120.00	100.00
7.049	7.049 (0.783)	43	808587			0.00- 51.86	21.86
7.049	7.049 (0.783)	59	95237			0.00- 32.57	2.57
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	2568503	25.0000	22.845	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	635295	25.0000	20.742	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	2080715			297.52- 357.52	327.52
7.213	7.213 (0.801)	51	602750			64.88- 124.88	94.88
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	3665011	25.0000	30.702	80.00- 120.00	100.00
7.515	7.515 (0.835)	57	1456367			9.74- 69.74	39.74
7.543	7.543 (0.838)	41	2903852			49.23- 109.23	79.23
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	784634	25.0000	27.261	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	2530469			292.50- 352.50	322.50
7.515	7.515 (0.835)	96	1247007			128.93- 188.93	158.93
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	2728829	25.0000	26.732	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	2406264			58.18- 118.18	88.18
7.790	7.790 (0.865)	86	299642			0.00- 40.98	10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	2607766	25.0000	24.902	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	778037			0.00- 59.84	29.84
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	696945	25.0000	27.207	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	4897150			672.66- 732.66	702.66
8.792	8.792 (0.977)	57	288375			11.38- 71.38	41.38
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.748	8.748 (0.972)	98	792854	25.0000	26.028	80.00- 120.00	100.00
8.748	8.748 (0.972)	61	2150666			241.26- 301.26	271.26
8.748	8.748 (0.972)	96	1255085			128.30- 188.30	158.30
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2896924	25.0000	26.569	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	630802			0.00- 51.77	21.77
9.002	9.002 (1.000)	72	672290			0.00- 53.21	23.21
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	2730211	25.0000	25.218	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1726308			33.23- 93.23	63.23
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2844559	25.0000	25.591	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1806458			33.51- 93.51	63.51
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1942953	25.0000	26.469	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	3247665			137.15- 197.15	167.15
9.197	9.197 (1.022)	41	2422217			94.67- 154.67	124.67
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2277328	25.0000	22.441	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2365600			73.88- 133.88	103.88
46 Benzene					CAS #: 71-43-2		
9.639	9.639 (0.946)	78	4096464	25.0000	26.821	80.00- 120.00	100.00
9.639	9.639 (0.946)	77	955129			0.00- 53.32	23.32
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	2498787	25.0000	26.719	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	761767			0.49- 60.49	30.49
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	4708070	25.0000	28.778	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.872	9.872 (0.969)	57	1842409			9.13- 69.13	39.13
9.872	9.872 (0.969)	100	416044			0.00- 38.84	8.84
52 Trichloroethene						CAS #: 79-01-6	
10.475	10.475 (1.028)	130	1668455	25.0000	26.654	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1766475			75.87- 135.87	105.87
10.475	10.475 (1.028)	97	1161362			39.61- 99.61	69.61
53 1,2-Dichloropropane						CAS #: 78-87-5	
10.861	10.861 (1.066)	63	1825265	25.0000	26.936	80.00- 120.00	100.00
10.861	10.861 (1.066)	62	1278921			40.07- 100.07	70.07
10.861	10.861 (1.066)	41	1668205			61.40- 121.40	91.40
54 1,4-Dioxane						CAS #: 123-91-1	
11.029	11.029 (1.083)	88	972671	25.0000	28.107	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	917454			64.32- 124.32	94.32
11.029	11.029 (1.083)	57	305117			1.37- 61.37	31.37
55 Bromodichloromethane						CAS #: 75-27-4	
11.270	11.270 (1.106)	83	3033603	25.0000	27.616	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1878524			31.92- 91.92	61.92
56 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.090	12.090 (1.187)	75	2351865	25.0000	29.053	80.00- 120.00	100.00
12.090	12.090 (1.187)	77	742243			1.56- 61.56	31.56
12.090	12.090 (1.187)	39	2118944			60.10- 120.10	90.10
58 4-Methyl-2-pentanone						CAS #: 108-10-1	
12.379	12.379 (1.215)	43	6233234	25.0000	29.251	80.00- 120.00	100.00
12.379	12.379 (1.215)	58	1730605			0.00- 57.76	27.76
12.379	12.379 (1.215)	85	567857			0.00- 39.11	9.11
60 Toluene						CAS #: 108-88-3	
12.644	12.644 (1.241)	91	4976893	25.0000	27.740	80.00- 120.00	100.00
12.644	12.644 (1.241)	92	2915635			28.58- 88.58	58.58
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
13.308	13.308 (0.869)	75	2551830	25.0000	28.496	80.00- 120.00	100.00
13.308	13.308 (0.869)	77	792362			1.05- 61.05	31.05
13.308	13.308 (0.869)	39	2154585			54.43- 114.43	84.43
63 1,1,2-Trichloroethane						CAS #: 79-00-5	
13.665	13.665 (0.892)	97	1755465	25.0000	26.801	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	1093196			32.27- 92.27	62.27
13.665	13.665 (0.892)	83	1571881			59.54- 119.54	89.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	2281209	25.0000	27.021	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1752734			46.83- 106.83	76.83
13.747	13.747 (0.897)	131	1663762			42.93- 102.93	72.93
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	2545575	25.0000	29.224	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	6553217			227.44- 287.44	257.44
14.132	14.132 (0.922)	100	368338			0.00- 44.47	14.47
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	2905811	25.0000	27.683	80.00- 120.00	100.00
14.352	14.352 (0.937)	208	154460			0.00- 35.32	5.32
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.517	14.517 (0.948)	107	739470	25.0000	25.158	80.00- 120.00	100.00
14.517	14.517 (0.948)	109	696660			64.21- 124.21	94.21
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	4415811	25.0000	26.646	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1403971			1.79- 61.79	31.79
15.370	15.370 (1.003)	77	2795050			33.30- 93.30	63.30
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	2379904	25.0000	27.691	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	7738414			295.16- 355.16	325.16
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	3007033	25.0000	28.500	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	6238192			177.45- 237.45	207.45
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	2881032	25.0000	29.072	80.00- 120.00	100.00
16.376	16.376 (1.069)	91	6240333			186.60- 246.60	216.60
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	4633127	25.0000	30.238	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	2539928			24.82- 84.82	54.82
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	2797247	25.0000	28.046	80.00- 120.00	100.00
16.711	16.711 (1.091)	171	1444777			21.65- 81.65	51.65
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	8422060	25.0000	29.956	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	2203228			0.00- 56.16	26.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	4638077	25.0000	26.947	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2946371			33.53- 93.53	63.53
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	10893917	25.0000	29.285	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	2353530			0.00- 51.60	21.60
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	9293812	25.0000	30.464	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	2706617			0.00- 59.12	29.12
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	7615905	25.0000	29.605	80.00- 120.00	100.00
17.820	17.820 (1.163)	120	3563378			16.79- 76.79	46.79
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	7373357	25.0000	30.531	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	3230759			13.82- 73.82	43.82
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	4540729	25.0000	27.596	80.00- 120.00	100.00
18.929	18.929 (1.236)	148	2897970			33.82- 93.82	63.82
18.929	18.929 (1.236)	111	1985948			13.74- 73.74	43.74
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	4673580	25.0000	27.416	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2937403			32.85- 92.85	62.85
19.083	19.083 (1.246)	111	1949392			11.71- 71.71	41.71
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	6542757	25.0000	30.572	80.00- 120.00	100.00(A)
19.316	19.316 (1.261)	126	1238175			0.00- 48.92	18.92
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	4291731	25.0000	27.128	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	2694144			32.78- 92.78	62.78
19.625	19.625 (1.281)	111	1911185			14.53- 74.53	44.53
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.431	21.431 (1.399)	180	3272503	25.0000	26.148	80.00- 120.00	100.00
21.431	21.431 (1.399)	182	3113059			65.13- 125.13	95.13
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2780854	25.0000	25.875	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1761301			33.34- 93.34	63.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	6978415	25.0000	27.570	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	862499			0.00- 42.36	12.36
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	393409	25.0000	23.752	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	3012882			735.84- 795.84	765.84
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.639	9.639 (1.071)	56	2911515	25.0000	25.383	80.00- 120.00	100.00
9.639	9.639 (1.071)	99	359142			0.00- 42.34	12.34
9.639	9.639 (1.071)	41	3279618			82.64- 142.64	112.64
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	5825010	25.0000	26.972	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	507562			0.00- 38.71	8.71
8.174	8.174 (0.908)	86	284253			0.00- 34.88	4.88
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	224052	25.0000	25.304	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	2506718			1088.81-1148.81	1118.81
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	1120615	25.0000	25.058	80.00- 120.00	100.00
4.848	4.848 (0.539)	43	2262139			171.87- 231.87	201.87
4.848	4.848 (0.539)	42	1980908			146.77- 206.77	176.77
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	2685490	25.0000	26.366	80.00- 120.00	100.00
10.644	10.644 (1.182)	98	1183998			14.09- 74.09	44.09
10.644	10.644 (1.182)	55	3086527			84.93- 144.93	114.93
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	3082443	25.0000	27.964	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	2903852			64.21- 124.21	94.21
7.515	7.515 (0.835)	57	1456367			17.25- 77.25	47.25

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: msdg.i
Lab File ID: g070207.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 25ppbv -> 25ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	356533	0.00
51 1,4-Difluorobenze	1324634	794780	1854488	1324634	0.00
72 Chlorobenzene-d5	1242028	745217	1738839	1242028	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070207.d

Date : 02-JUL-2008 11:32

Client ID: Level 5

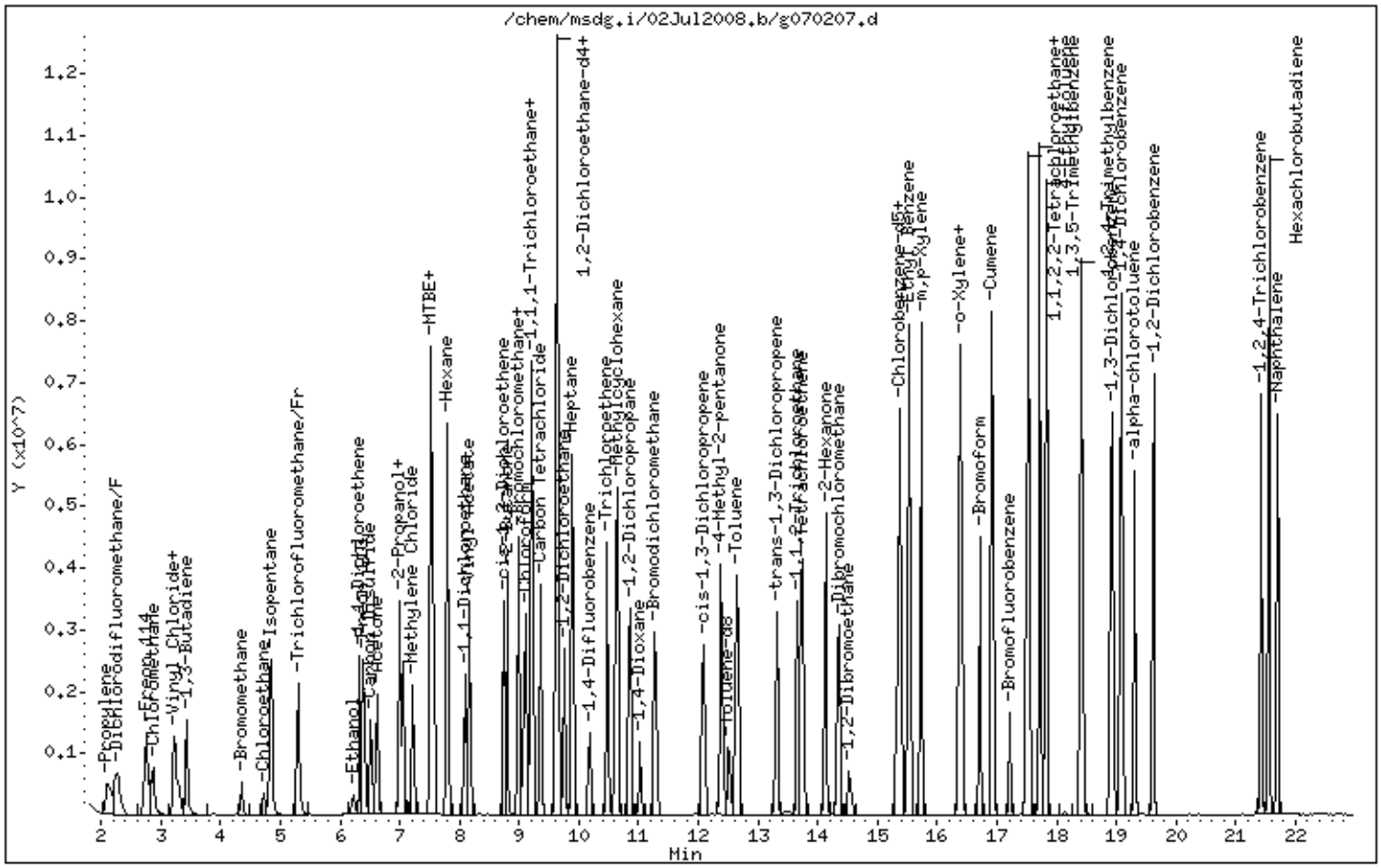
Instrument: msdg.i

Sample Info: 500mL #1541-159A

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070208.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 02-JUL-2008 12:20
Operator : lmr Inst ID: msdg.i
Smp Info : 125mL #1612-36
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 12:20 Cal File: g070208.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	317124	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	239656			0.00- 30.00		75.57
9.002	9.002 (1.000)	49	1027855			0.00- 30.00		324.12
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1253502	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	208268			0.00- 46.78		16.61
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1113933	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	702621			0.00- 30.00		63.08
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	618330	10.0000	10.158	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	392462			0.00- 30.00		63.47
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1286330	10.0000	9.927	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	148921			0.00- 42.14		11.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	829691			34.50- 94.50	64.50
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	664291	10.0000	10.266	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	972106			113.13- 173.13	146.34
17.226	17.226 (1.125)	176	643234			66.52- 126.52	96.83
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	2092222	50.0000	47.656	70.00- 130.00	100.00(A)
2.101	2.101 (0.233)	42	1403294			0.00- 30.00	67.07
2.101	2.101 (0.233)	39	1590911			0.00- 30.00	76.04
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.246	2.246 (0.249)	85	4641866	50.0000	46.902	70.00- 130.00	100.00(A)
2.246	2.246 (0.249)	87	1484692			1.53- 61.53	31.98
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	2089978	50.0000	41.890	70.00- 130.00	100.00(A)
2.752	2.752 (0.306)	137	700460			0.00- 30.00	33.52
2.752	2.752 (0.306)	85	3502730			0.00- 30.00	167.60
8 Chloromethane					CAS #: 74-87-3		
2.848	2.848 (0.316)	50	3577339	50.0000	52.980	70.00- 130.00	100.00(A)
2.848	2.848 (0.316)	52	948589			0.00- 30.00	26.52
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.291 (0.366)	62	1766244	50.0000	48.162	70.00- 130.00	100.00(A)
3.291	3.291 (0.366)	64	565012			0.00- 59.65	31.99
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	1919109	50.0000	48.245	70.00- 130.00	100.00(A)
3.412	3.412 (0.379)	39	2407962			0.00- 30.00	125.47
11 Bromomethane					CAS #: 74-83-9		
4.351	4.351 (0.483)	94	846143	50.0000	46.922	70.00- 130.00	100.00(A)
4.351	4.351 (0.483)	96	796211			64.87- 124.87	94.10
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	712398	50.0000	52.021	70.00- 130.00	100.00(A)
4.724	4.724 (0.525)	49	318202			0.00- 30.00	44.67
4.724	4.724 (0.525)	66	213330			0.00- 30.00	29.95
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	5532629	50.0000	46.365	70.00- 130.00	100.00(A)
5.304	5.304 (0.589)	103	3627614			33.99- 93.99	65.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.198	6.198 (0.688)	45	1102320	50.0000	49.710	70.00- 130.00	100.00(A)
6.198	6.198 (0.688)	43	245834			0.00- 30.00	22.30
6.198	6.198 (0.688)	46	416813			0.00- 30.00	37.81
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	1781989	50.0000	40.015	70.00- 130.00	100.00(A)
6.390	6.390 (0.710)	153	1144161			31.73- 91.73	64.21
6.390	6.390 (0.710)	101	2554076			0.00- 30.00	143.33
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	845421	50.0000	44.397	70.00- 130.00	100.00(A)
6.335	6.335 (0.704)	61	3840555			0.00- 30.00	454.28
6.335	6.335 (0.704)	96	1339985			0.00- 30.00	158.50
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	5488433	50.0000	46.283	70.00- 130.00	100.00(A)
6.637	6.637 (0.737)	58	1082951			0.00- 30.00	19.73
24 2-Propanol					CAS #: 67-63-0		
7.021	7.021 (0.780)	45	5601641	50.0000	47.136	70.00- 130.00	100.00(A)
7.021	7.021 (0.780)	43	1123154			0.00- 30.00	20.05
7.021	7.021 (0.780)	59	155076			0.00- 30.00	2.77
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	4340642	50.0000	43.405	70.00- 130.00	100.00(A)
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	1447058	50.0000	53.116	70.00- 130.00	100.00(A)
7.213	7.213 (0.801)	49	3546125			297.52- 357.52	245.06
7.213	7.213 (0.801)	51	1026325			0.00- 30.00	70.92
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	4365003	50.0000	41.109	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	57	1863755			0.00- 30.00	42.70
7.543	7.543 (0.838)	41	3753401			0.00- 30.00	85.99
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	1208047	50.0000	47.188	70.00- 130.00	100.00(A)
7.515	7.515 (0.835)	61	4050897			0.00- 30.00	335.33
7.515	7.515 (0.835)	96	1888766			0.00- 30.00	156.35
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	4659696	50.0000	51.320	70.00- 130.00	100.00(A)
7.790	7.790 (0.865)	43	4112791			0.00- 30.00	88.26
7.790	7.790 (0.865)	86	494807			0.00- 30.00	10.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	4372960	50.0000	46.947	70.00- 130.00	100.00(A)
8.092	8.092 (0.899)	65	1318240			0.00- 59.84	30.15
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	1112453	50.0000	48.824	70.00- 130.00	100.00(A)
8.792	8.792 (0.977)	43	8132277			672.66- 732.66	731.02
8.792	8.792 (0.977)	57	485715			0.00- 30.00	43.66
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.748	8.748 (0.972)	98	1299914	50.0000	47.977	70.00- 130.00	100.00(A)
8.748	8.748 (0.972)	61	3668328			241.26- 301.26	282.20
8.748	8.748 (0.972)	96	2025914			128.30- 188.30	155.85
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	4560269	50.0000	47.022	70.00- 130.00	100.00(A)
9.002	9.002 (1.000)	71	951874			0.00- 30.00	20.87
9.002	9.002 (1.000)	72	1033105			0.00- 30.00	22.65
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	4366970	50.0000	45.349	70.00- 130.00	100.00(A)
9.099	9.099 (1.011)	85	2782837			33.23- 93.23	63.72
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	4674314	50.0000	47.278	70.00- 130.00	100.00(A)
9.229	9.229 (1.025)	99	2984878			33.51- 93.51	63.86
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	3123426	50.0000	47.838	70.00- 130.00	100.00(A)
9.197	9.197 (1.022)	56	5573864			0.00- 30.00	178.45
9.197	9.197 (1.022)	41	4032544			0.00- 30.00	129.11
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	4620134	50.0000	51.185	70.00- 130.00	100.00(A)
9.359	9.359 (1.040)	117	4810954			73.88- 133.88	104.13
46 Benzene					CAS #: 71-43-2		
9.639	9.639 (0.946)	78	6479594	50.0000	44.832	70.00- 130.00	100.00(A)
9.639	9.639 (0.946)	77	1485240			0.00- 30.00	22.92
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	4132384	50.0000	46.694	70.00- 130.00	100.00(A)
9.755	9.755 (0.958)	64	1278053			0.00- 30.00	30.93
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	8019546	50.0000	51.802	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
49 Heptane (continued)							
9.872	9.872 (0.969)	57	3126708			0.00- 30.00	38.99
9.872	9.872 (0.969)	100	681431			0.00- 30.00	8.50
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	2675381	50.0000	45.165	70.00- 130.00	100.00(A)
10.475	10.475 (1.028)	95	2881949			0.00- 30.00	107.72
10.475	10.475 (1.028)	97	1850499			0.00- 30.00	69.17
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.861 (1.066)	63	3047164	50.0000	47.519	70.00- 130.00	100.00(A)
10.861	10.861 (1.066)	62	2158424			40.07- 100.07	70.83
10.861	10.861 (1.066)	41	2762136			61.40- 121.40	90.65
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	1609539	50.0000	49.149	70.00- 130.00	100.00(A)
11.005	11.005 (1.080)	58	1562239			64.32- 124.32	97.06
11.005	11.005 (1.080)	57	525524			0.00- 30.00	32.65
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	5009098	50.0000	48.188	70.00- 130.00	100.00(A)
11.270	11.270 (1.106)	85	3126948			31.92- 91.92	62.43
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.090	12.090 (1.187)	75	3934825	50.0000	51.365	70.00- 130.00	100.00(A)
12.090	12.090 (1.187)	77	1240117			1.56- 61.56	31.52
12.090	12.090 (1.187)	39	3609749			60.10- 120.10	91.74
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	10476320	50.0000	51.953	70.00- 130.00	100.00(A)
12.379	12.379 (1.215)	58	2920433			0.00- 30.00	27.88
12.379	12.379 (1.215)	85	932096			0.00- 30.00	8.90
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	8037838	50.0000	47.344	70.00- 130.00	100.00(A)
12.644	12.644 (1.241)	92	4705127			28.58- 88.58	58.54
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	4249575	50.0000	52.912	70.00- 130.00	100.00(A)
13.308	13.308 (0.869)	77	1341531			1.05- 61.05	31.57
13.308	13.308 (0.869)	39	3680624			54.43- 114.43	86.61
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	2816756	50.0000	47.949	70.00- 130.00	100.00(A)
13.665	13.665 (0.892)	99	1714039			32.27- 92.27	60.85
13.665	13.665 (0.892)	83	2514038			59.54- 119.54	89.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	3547472	50.0000	46.852	70.00- 130.00	100.00(A)
13.747	13.747 (0.897)	129	2785912			46.83- 106.83	78.53
13.747	13.747 (0.897)	131	2670107			42.93- 102.93	75.27
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	4125516	50.0000	52.809	70.00- 130.00	100.00(A)
14.132	14.132 (0.922)	43	10609274			227.44- 287.44	257.16
14.132	14.132 (0.922)	100	574849			0.00- 30.00	13.93
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	4715612	50.0000	50.091	70.00- 130.00	100.00(A)
14.352	14.352 (0.937)	208	250024			0.00- 30.00	5.30
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.517	14.517 (0.948)	107	1216166	50.0000	46.134	70.00- 130.00	100.00(A)
14.517	14.517 (0.948)	109	1116959			64.21- 124.21	91.84
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	6935283	50.0000	46.662	70.00- 130.00	100.00(A)
15.370	15.370 (1.003)	114	2222761			1.79- 61.79	32.05
15.370	15.370 (1.003)	77	4524633			33.30- 93.30	65.24
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	3772717	50.0000	48.945	70.00- 130.00	100.00(A)
15.525	15.525 (1.013)	91	12178830			0.00- 30.00	322.81
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	4725643	50.0000	49.939	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	9856342			0.00- 30.00	208.57
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	4431850	50.0000	49.864	70.00- 130.00	100.00(A)
16.376	16.376 (1.069)	91	9834210			186.60- 246.60	221.90
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	7298745	50.0000	53.113	70.00- 130.00	100.00(A)
16.401	16.401 (1.071)	78	4043454			24.82- 84.82	55.40
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	4515498	50.0000	50.480	70.00- 130.00	100.00(A)
16.711	16.711 (1.091)	171	2315275			0.00- 30.00	51.27
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	13137564	50.0000	52.103	70.00- 130.00	100.00(A)
16.917	16.917 (1.104)	120	3339205			0.00- 56.16	25.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	7313951	50.0000	47.380	70.00- 130.00	100.00(A)
17.484	17.484 (1.141)	85	4589198			33.53- 93.53	62.75
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	16826230	50.0000	50.434	70.00- 130.00	100.00(A)
17.536	17.536 (1.145)	120	3611120			0.00- 30.00	21.46
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	14320659	50.0000	52.340	70.00- 130.00	100.00(A)
17.716	17.716 (1.157)	120	4125836			0.00- 59.12	28.81
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	11720026	50.0000	50.798	70.00- 130.00	100.00(A)
17.820	17.820 (1.163)	120	5445545			16.79- 76.79	46.46
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	11629290	50.0000	53.692	70.00- 130.00	100.00(A)
18.413	18.413 (1.202)	120	5086485			13.82- 73.82	43.74
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	7101777	50.0000	48.124	70.00- 130.00	100.00(A)
18.929	18.929 (1.236)	148	4554341			0.00- 30.00	64.13
18.929	18.929 (1.236)	111	3141198			0.00- 30.00	44.23
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	7302948	50.0000	47.767	70.00- 130.00	100.00(A)
19.083	19.083 (1.246)	148	4613336			0.00- 30.00	63.17
19.083	19.083 (1.246)	111	3093379			0.00- 30.00	42.36
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	11225779	50.0000	58.486	70.00- 130.00	100.00(A)
19.316	19.316 (1.261)	126	2094151			0.00- 30.00	18.65
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	6743453	50.0000	47.526	70.00- 130.00	100.00(A)
19.625	19.625 (1.281)	148	4277543			32.78- 92.78	63.43
19.625	19.625 (1.281)	111	3085309			14.53- 74.53	45.75
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	5763593	50.0000	51.347	70.00- 130.00	100.00(A)
21.430	21.430 (1.399)	182	5512402			65.13- 125.13	95.64
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	4649778	50.0000	48.240	70.00- 130.00	100.00(A)
21.559	21.559 (1.407)	223	2923058			0.00- 30.00	62.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	12501282	50.0000	55.069	70.00- 130.00	100.00(A)
21.688	21.688 (1.416)	127	1536432			0.00- 30.00	12.29
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	858598	50.0000	58.280	70.00- 130.00	100.00(A)
6.994	6.994 (0.777)	41	5378031			0.00- 30.00	626.37
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.639	9.639 (1.071)	56	5070184	50.0000	49.696	70.00- 130.00	100.00(A)
9.639	9.639 (1.071)	99	568577			0.00- 30.00	11.21
9.639	9.639 (1.071)	41	5472238			0.00- 30.00	107.93
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	10332337	50.0000	53.787	70.00- 130.00	100.00(A)
8.174	8.174 (0.908)	42	861671			0.00- 30.00	8.34
8.174	8.174 (0.908)	86	484070			0.00- 30.00	4.69
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	386532	50.0000	49.079	70.00- 130.00	100.00(A)
3.221	3.221 (0.358)	43	4271146			0.00- 30.00	1104.99
14 Isopentane					CAS #: 78-78-4		
4.827	4.827 (0.536)	57	2009650	50.0000	50.522	70.00- 130.00	100.00(A)
4.827	4.827 (0.536)	43	4008252			0.00- 30.00	199.45
4.827	4.827 (0.536)	42	3460992			0.00- 30.00	172.22
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	4377404	50.0000	48.318	70.00- 130.00	100.00(A)
10.644	10.644 (1.182)	98	1934147			0.00- 30.00	44.18
10.644	10.644 (1.182)	55	5238454			0.00- 30.00	119.67
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.543	7.543 (0.838)	59	4396946	50.0000	44.846	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	41	3753401			0.00- 30.00	85.36
7.543	7.543 (0.838)	57	1863755			0.00- 30.00	42.39

QC Flag Legend

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

Report Date: 03-Jul-2008 13:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070208.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	317124	-11.05
51 1,4-Difluorobenze	1324634	794780	1854488	1253502	-5.37
72 Chlorobenzene-d5	1242028	745217	1738839	1113933	-10.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070208.d

Date : 02-JUL-2008 12:20

Client ID: Level 6

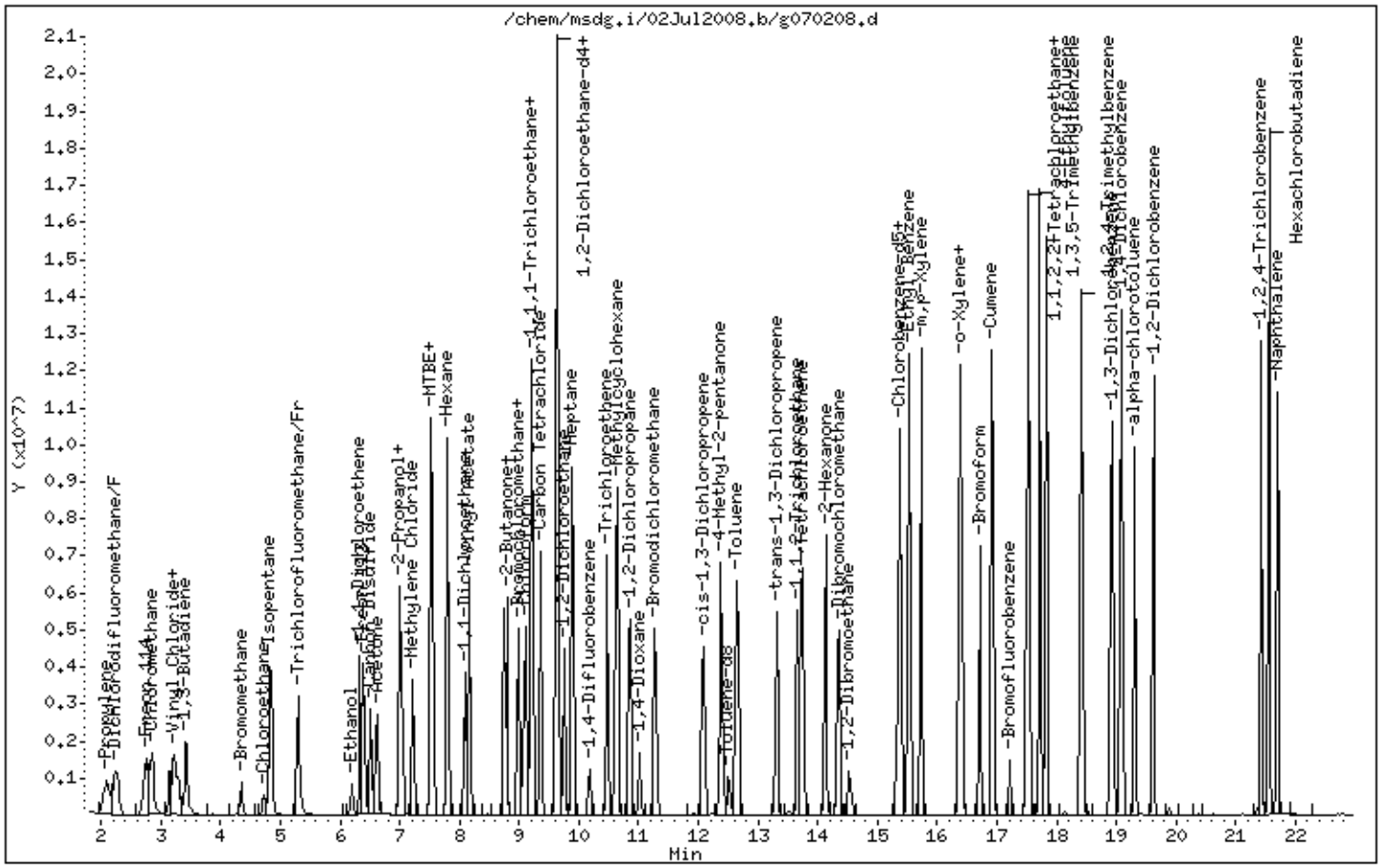
Instrument: msdg.i

Sample Info: 125mL #1612-36

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070209.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 02-JUL-2008 13:24
Operator : lmr Inst ID: msdg.i
Smp Info : 250mL #1612-36;ICAL;Level 7
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1 Calibration Sample, Level: 7
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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	344490	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	273362			0.00- 30.00		79.35
9.002	9.002 (1.000)	49	958707			0.00- 30.00		278.30
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1343190	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	223120			0.00- 46.78		16.61
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1247974	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	790764			0.00- 30.00		63.36
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.667	9.667 (1.074)	65	721633	10.0000	10.914	70.00- 130.00		100.00
9.667	9.667 (1.074)	67	533355			0.00- 30.00		73.91
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.523	12.523 (1.229)	98	1423542	10.0000	10.252	70.00- 130.00		100.00
12.523	12.523 (1.229)	70	171484			0.00- 42.14		12.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.523 (1.229)	100	929285			34.50- 94.50	65.28
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	711759	10.0000	9.818	70.00- 130.00	100.00
17.226	17.226 (1.125)	95	1058868			113.13- 173.13	148.77
17.226	17.226 (1.125)	176	689615			66.52- 126.52	96.89
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	4649990	100.000	97.501	70.00- 130.00	100.00(AM)
2.101	2.101 (0.233)	42	2260993			0.00- 30.00	48.62
2.101	2.101 (0.233)	39	2515438			0.00- 30.00	54.10
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.270	2.270 (0.252)	85	9971089	100.000	92.747	70.00- 130.00	100.00(A)
2.270	2.270 (0.252)	87	3180993			1.53- 61.53	31.90
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	4649411	100.000	85.788	70.00- 130.00	100.00(A)
2.752	2.752 (0.306)	137	1505180			0.00- 30.00	32.37
2.752	2.752 (0.306)	85	7660752			0.00- 30.00	164.77
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	6973408	100.000	95.070	70.00- 130.00	100.00(A)
2.872	2.872 (0.319)	52	1882892			0.00- 30.00	27.00
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	3905923	100.000	98.046	70.00- 130.00	100.00(A)
3.308	3.308 (0.367)	64	1140600			0.00- 59.65	29.20
10 1,3-Butadiene					CAS #: 106-99-0		
3.430	3.430 (0.381)	54	4542467	100.000	105.12	70.00- 130.00	100.00(A)
3.430	3.430 (0.381)	39	5417773			0.00- 30.00	119.27
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	2249063	100.000	114.81	70.00- 130.00	100.00(A)
4.350	4.350 (0.483)	96	2111798			64.87- 124.87	93.90
13 Chloroethane					CAS #: 75-00-3		
4.723	4.723 (0.525)	64	1589823	100.000	106.87	70.00- 130.00	100.00(A)
4.723	4.723 (0.525)	49	730940			0.00- 30.00	45.98
4.723	4.723 (0.525)	66	465151			0.00- 30.00	29.26
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	11951577	100.000	92.201	70.00- 130.00	100.00(A)
5.304	5.304 (0.589)	103	7699609			33.99- 93.99	64.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	2399107	100.000	99.594	70.00- 130.00	100.00(A)
6.225	6.225 (0.692)	43	501122			0.00- 30.00	20.89
6.225	6.225 (0.692)	46	910579			0.00- 30.00	37.95
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	3693209	100.000	76.343	70.00- 130.00	100.00(A)
6.390	6.390 (0.710)	153	2310514			31.73- 91.73	62.56
6.390	6.390 (0.710)	101	5239328			0.00- 30.00	141.86
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	1810461	100.000	87.522	70.00- 130.00	100.00(A)
6.335	6.335 (0.704)	61	8218494			0.00- 30.00	453.94
6.335	6.335 (0.704)	96	2820279			0.00- 30.00	155.78
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	12100592	100.000	93.936	70.00- 130.00	100.00(A)
6.637	6.637 (0.737)	58	2478666			0.00- 30.00	20.48
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	13311865	100.000	103.12	70.00- 130.00	100.00(A)
7.049	7.049 (0.783)	43	2718147			0.00- 30.00	20.42
7.049	7.049 (0.783)	59	367159			0.00- 30.00	2.76
20 Carbon Disulfide					CAS #: 75-15-0		
6.499	6.499 (0.722)	76	9468135	100.000	87.157	70.00- 130.00	100.00(A)
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	2181655	100.000	73.719	70.00- 130.00	100.00(A)
7.213	7.213 (0.801)	49	7072965			297.52- 357.52	324.20
7.213	7.213 (0.801)	51	2057635			0.00- 30.00	94.32
29 MTBE					CAS #: 1634-04-4		
7.543	7.543 (0.838)	73	10717897	100.000	92.922	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	57	5405228			0.00- 30.00	50.43
7.543	7.543 (0.838)	41	8722012			0.00- 30.00	81.38
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	1795708	100.000	64.570	70.00- 130.00	100.00(A)
7.515	7.515 (0.835)	61	7856845			0.00- 30.00	437.53
7.515	7.515 (0.835)	96	2841089			0.00- 30.00	158.22
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	9622932	100.000	97.564	70.00- 130.00	100.00(A)
7.790	7.790 (0.865)	43	8612017			0.00- 30.00	89.49
7.790	7.790 (0.865)	86	988072			0.00- 30.00	10.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	9449464	100.000	93.389	70.00- 130.00	100.00(A)
8.092	8.092 (0.899)	65	2818001			0.00- 59.84	29.82
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	2323826	100.000	93.888	70.00- 130.00	100.00(A)
8.792	8.792 (0.977)	43	16072576			672.66- 732.66	691.64
8.792	8.792 (0.977)	57	1071037			0.00- 30.00	46.09
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	2707099	100.000	91.976	70.00- 130.00	100.00(A)
8.747	8.747 (0.972)	61	8095512			241.26- 301.26	299.05
8.747	8.747 (0.972)	96	4224961			128.30- 188.30	156.07
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	11352699	100.000	107.76	70.00- 130.00	100.00(A)
9.002	9.002 (1.000)	71	2261840			0.00- 30.00	19.92
9.002	9.002 (1.000)	72	2402595			0.00- 30.00	21.16
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	9400215	100.000	89.863	70.00- 130.00	100.00(A)
9.099	9.099 (1.011)	85	5880684			33.23- 93.23	62.56
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	10119211	100.000	94.219	70.00- 130.00	100.00(A)
9.229	9.229 (1.025)	99	6402451			33.51- 93.51	63.27
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	6583954	100.000	92.828	70.00- 130.00	100.00(A)
9.197	9.197 (1.022)	56	12799576			0.00- 30.00	194.41
9.197	9.197 (1.022)	41	9191619			0.00- 30.00	139.61
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	9864181	100.000	100.60	70.00- 130.00	100.00(A)
9.359	9.359 (1.040)	117	10303454			73.88- 133.88	104.45
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	12783471	100.000	82.543	70.00- 130.00	100.00(A)
9.638	9.638 (0.946)	77	2961816			0.00- 30.00	23.17
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	9035260	100.000	95.277	70.00- 130.00	100.00(A)
9.755	9.755 (0.958)	64	2725992			0.00- 30.00	30.17
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	16749227	100.000	100.97	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
49 Heptane (continued)							
9.871	9.871 (0.969)	57	6558697			0.00- 30.00	39.16
9.901	9.901 (0.972)	100	1316196			0.00- 30.00	7.86
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	5271227	100.000	83.046	70.00- 130.00	100.00(A)
10.475	10.475 (1.028)	95	5846270			0.00- 30.00	110.91
10.475	10.475 (1.028)	97	3800269			0.00- 30.00	72.09
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.860	10.860 (1.066)	63	6518319	100.000	94.863	70.00- 130.00	100.00(A)
10.860	10.860 (1.066)	62	4651555			40.07- 100.07	71.36
10.860	10.860 (1.066)	41	5879424			61.40- 121.40	90.20
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	3530588	100.000	100.61	70.00- 130.00	100.00(A)
11.029	11.029 (1.083)	58	3556856			64.32- 124.32	100.74
11.029	11.029 (1.083)	57	1187393			0.00- 30.00	33.63
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	10678503	100.000	95.868	70.00- 130.00	100.00(A)
11.270	11.270 (1.106)	85	6647266			31.92- 91.92	62.25
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	8349589	100.000	101.72	70.00- 130.00	100.00(A)
12.089	12.089 (1.187)	77	2616724			1.56- 61.56	31.34
12.089	12.089 (1.187)	39	7851912			60.10- 120.10	94.04
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.378	12.378 (1.215)	43	23623640	100.000	109.33	70.00- 130.00	100.00(A)
12.378	12.378 (1.215)	58	6594901			0.00- 30.00	27.92
12.378	12.378 (1.215)	85	2022756			0.00- 30.00	8.56
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	16764421	100.000	92.150	70.00- 130.00	100.00(A)
12.644	12.644 (1.241)	92	9795424			28.58- 88.58	58.43
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	9310610	100.000	103.48	70.00- 130.00	100.00(A)
13.308	13.308 (0.869)	77	2898432			1.05- 61.05	31.13
13.308	13.308 (0.869)	39	8021952			54.43- 114.43	86.16
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	5833395	100.000	88.635	70.00- 130.00	100.00(A)
13.665	13.665 (0.892)	99	3628195			32.27- 92.27	62.20
13.665	13.665 (0.892)	83	5308081			59.54- 119.54	90.99

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	7107211	100.000	83.784	70.00- 130.00	100.00(A)
13.747	13.747 (0.897)	129	5583132			46.83- 106.83	78.56
13.747	13.747 (0.897)	131	5344545			42.93- 102.93	75.20
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	9686458	100.000	110.67	70.00- 130.00	100.00(A)
14.132	14.132 (0.922)	43	23637592			227.44- 287.44	244.03
14.132	14.132 (0.922)	100	1260460			0.00- 30.00	13.01
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	9878164	100.000	93.660	70.00- 130.00	100.00(A)
14.352	14.352 (0.937)	208	505889			0.00- 30.00	5.12
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	1952910	100.000	66.125	70.00- 130.00	100.00(A)
14.516	14.516 (0.948)	109	1824202			64.21- 124.21	93.41
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	14298037	100.000	85.868	70.00- 130.00	100.00(A)
15.370	15.370 (1.003)	114	4564313			1.79- 61.79	31.92
15.370	15.370 (1.003)	77	9612213			33.30- 93.30	67.23
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	7748544	100.000	89.729	70.00- 130.00	100.00(A)
15.525	15.525 (1.013)	91	23228887			0.00- 30.00	299.78
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	9686235	100.000	91.366	70.00- 130.00	100.00(A)
15.731	15.731 (1.027)	91	20768499			0.00- 30.00	214.41
77 o-Xylene					CAS #: 95-47-6		
16.375	16.375 (1.069)	106	9245563	100.000	92.851	70.00- 130.00	100.00(A)
16.375	16.375 (1.069)	91	20752262			186.60- 246.60	224.46
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	15022038	100.000	97.574	70.00- 130.00	100.00(A)
16.427	16.427 (1.072)	78	8744383			24.82- 84.82	58.21
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	9234290	100.000	92.145	70.00- 130.00	100.00(A)
16.711	16.711 (1.091)	171	4755227			0.00- 30.00	51.50
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	26529314	100.000	93.913	70.00- 130.00	100.00(A)
16.917	16.917 (1.104)	120	6842403			0.00- 56.16	25.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	15142998	100.000	87.561	70.00- 130.00	100.00(A)
17.510	17.510 (1.143)	85	9442446			33.53- 93.53	62.36
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	24638710	100.000	65.919	70.00- 130.00	100.00(A)
17.536	17.536 (1.145)	120	7184197			0.00- 30.00	29.16
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	22519053	100.000	73.464	70.00- 130.00	100.00(A)
17.716	17.716 (1.157)	120	8118582			0.00- 59.12	36.05
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.819	17.819 (1.163)	105	22219639	100.000	85.963	70.00- 130.00	100.00(A)
17.819	17.819 (1.163)	120	10840999			16.79- 76.79	48.79
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	23171149	100.000	95.489	70.00- 130.00	100.00(A)
18.413	18.413 (1.202)	120	10295106			13.82- 73.82	44.43
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	14501551	100.000	87.713	70.00- 130.00	100.00(A)
18.929	18.929 (1.236)	148	9163460			0.00- 30.00	63.19
18.929	18.929 (1.236)	111	6533244			0.00- 30.00	45.05
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	14399422	100.000	84.068	70.00- 130.00	100.00(A)
19.083	19.083 (1.246)	148	9168470			0.00- 30.00	63.67
19.083	19.083 (1.246)	111	6377023			0.00- 30.00	44.29
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	22416470	100.000	104.24	70.00- 130.00	100.00(A)
19.315	19.315 (1.261)	126	4372977			0.00- 30.00	19.51
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	13473840	100.000	84.761	70.00- 130.00	100.00(A)
19.625	19.625 (1.281)	148	8509423			32.78- 92.78	63.16
19.625	19.625 (1.281)	111	6288910			14.53- 74.53	46.67
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	10931921	100.000	86.931	70.00- 130.00	100.00(A)
21.430	21.430 (1.399)	182	10393515			65.13- 125.13	95.07
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	8668903	100.000	80.277	70.00- 130.00	100.00(A)
21.559	21.559 (1.407)	223	5478516			0.00- 30.00	63.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	24114936	100.000	94.818	70.00- 130.00	100.00(A)
21.688	21.688 (1.416)	127	3055705			0.00- 30.00	12.67
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	1408976	100.000	88.041	70.00- 130.00	100.00(A)
6.994	6.994 (0.777)	41	10739749			0.00- 30.00	762.24
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	11043811	100.000	99.649	70.00- 130.00	100.00(A)
9.638	9.638 (1.071)	99	1127131			0.00- 30.00	10.21
9.638	9.638 (1.071)	41	11831624			0.00- 30.00	107.13
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	18951871	100.000	90.821	70.00- 130.00	100.00(A)
8.174	8.174 (0.908)	42	1710179			0.00- 30.00	9.02
8.174	8.174 (0.908)	86	960938			0.00- 30.00	5.07
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	888058	100.000	103.80	70.00- 130.00	100.00(A)
3.221	3.221 (0.358)	43	9454557			0.00- 30.00	1064.63
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	4361572	100.000	100.94	70.00- 130.00	100.00(A)
4.848	4.848 (0.539)	43	8490613			0.00- 30.00	194.67
4.848	4.848 (0.539)	42	7310404			0.00- 30.00	167.61
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	9216867	100.000	93.655	70.00- 130.00	100.00(A)
10.644	10.644 (1.182)	98	4012850			0.00- 30.00	43.54
10.644	10.644 (1.182)	55	11814976			0.00- 30.00	128.19
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	12301489	100.000	115.50	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	41	8722012			0.00- 30.00	70.90
7.543	7.543 (0.838)	57	5405228			0.00- 30.00	43.94

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	344490	-3.38
51 1,4-Difluorobenze	1324634	794780	1854488	1343190	1.40
72 Chlorobenzene-d5	1242028	745217	1738839	1247974	0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070209.d

Date : 02-JUL-2008 13:24

Client ID: Level 7

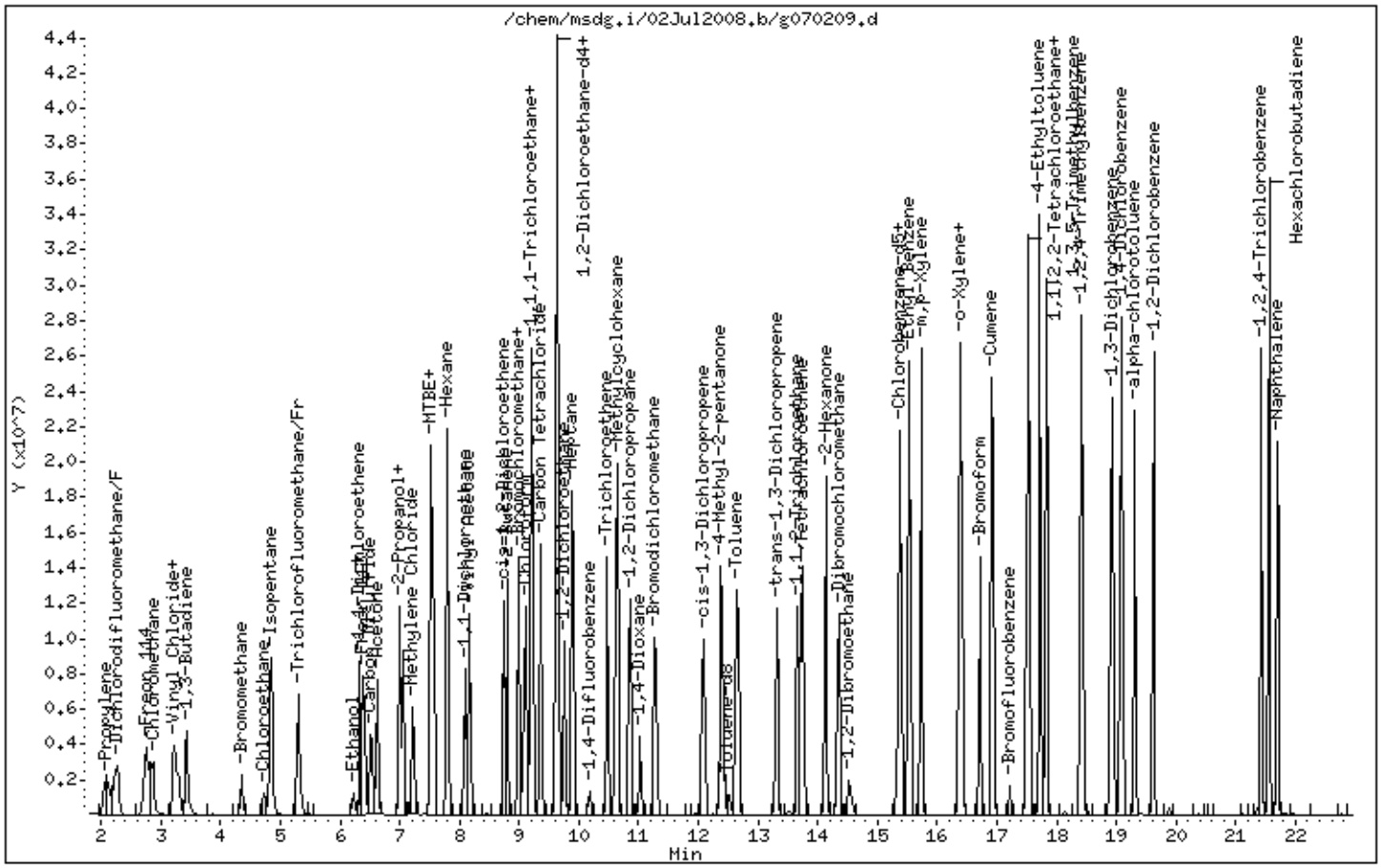
Instrument: msdg.i

Sample Info: 250mL #1612-36;ICAL;Level 7

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807628-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/08 08:36 AM**	

Compound	%Recovery
Freon 12	107
Freon 114	106
Vinyl Chloride	110
Bromomethane	98
Chloroethane	128
Freon 11	112
1,1-Dichloroethene	106
Freon 113	93
Methylene Chloride	94
1,1-Dichloroethane	111
cis-1,2-Dichloroethene	108
Chloroform	111
1,1,1-Trichloroethane	114
Carbon Tetrachloride	124
Benzene	110
1,2-Dichloroethane	118
Trichloroethene	104
1,2-Dichloropropane	114
cis-1,3-Dichloropropene	116
Toluene	111
trans-1,3-Dichloropropene	119
1,1,2-Trichloroethane	111
Tetrachloroethene	109
1,2-Dibromoethane (EDB)	109
Chlorobenzene	110
Ethyl Benzene	115
m,p-Xylene	117
o-Xylene	118
Styrene	123
1,1,2,2-Tetrachloroethane	115
1,3,5-Trimethylbenzene	121
1,2,4-Trimethylbenzene	128
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	108
1,3-Butadiene	124
Hexane	119
Cyclohexane	113

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807628-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/08 08:36 AM**	

Compound	**%Recovery**
Heptane	129
Bromodichloromethane	115
Dibromochloromethane	117
Cumene	122
Propylbenzene	122
Chloromethane	115
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	117
Acetone	123
Carbon Disulfide	108
2-Propanol	123
trans-1,2-Dichloroethene	87
2-Butanone (Methyl Ethyl Ketone)	112
Tetrahydrofuran	129
1,4-Dioxane	111
4-Methyl-2-pentanone	130
2-Hexanone	130
Bromoform	112
4-Ethyltoluene	124
Ethanol	100
Methyl tert-butyl ether	122
3-Chloropropene	110
2,2,4-Trimethylpentane	115
Naphthalene	123

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdg.i Injection Date: 12-AUG-2008 08:36
Lab File ID: g081202.d Init. Cal. Date(s): 02-JUL-2008 02-JUL-2008
Analysis Type: AIR Init. Cal. Times: 08:28 13:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdg.i/12Aug2008.b/t14q702a.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 47 1,2-Dichloroethane-d4	1.91937	2.09152	0.010	-8.96871	30.00000	Averaged
$ 59 Toluene-d8	1.03377	1.09441	0.010	-5.86569	30.00000	Averaged
$ 81 Bromofluorobenzene	0.58091	0.59591	0.010	-2.58242	30.00000	Averaged
4 Propylene	1.38441	1.50213	0.010	-8.50349	30.00000	Averaged
6 Dichlorodifluoromethane/Fr1	3.12081	3.35215	0.010	-7.41282	30.00000	Averaged
7 Freon 114	1.57325	1.67544	0.010	-6.49534	30.00000	Averaged
8 Chloromethane	2.12923	2.44313	0.010	-14.74246	30.00000	Averaged
9 Vinyl Chloride	1.15642	1.27736	0.010	-10.45827	30.00000	Averaged
10 1,3-Butadiene	1.25434	1.55544	0.010	-24.00416	30.00000	Averaged
11 Bromomethane	0.56863	0.55990	0.010	1.53532	30.00000	Averaged
13 Chloroethane	0.43183	0.55286	0.010	-28.02629	30.00000	Averaged
16 Trichlorofluoromethane/Fr11	3.76280	4.19943	0.010	-11.60377	30.00000	Averaged
17 Ethanol	0.69926	0.70134	0.010	-0.29683	30.00000	Averaged
19 Freon 113	1.40429	1.30422	0.010	7.12611	30.00000	Averaged
18 1,1-Dichloroethene	0.60047	0.63922	0.010	-6.45205	30.00000	Averaged
21 Acetone	3.73936	4.61265	0.010	-23.35407	30.00000	Averaged
24 2-Propanol	3.74741	4.60380	0.010	-22.85294	30.00000	Averaged
25 3-Chloroprene	0.46456	0.51090	0.010	-9.97423	30.00000	Averaged
20 Carbon Disulfide	3.15345	3.40318	0.010	-7.91902	30.00000	Averaged
28 Methylene Chloride	0.85907	0.80446	0.010	6.35746	30.00000	Averaged
29 MTBE	3.34823	4.08278	0.010	-21.93853	30.00000	Averaged
30 trans-1,2-Dichloroethene	0.80728	0.70017	0.010	13.26856	30.00000	Averaged
32 Hexane	2.86313	3.41944	0.010	-19.43014	30.00000	Averaged
35 Vinyl Acetate	6.05743	7.41745	0.010	-22.45216	30.00000	Averaged
33 1,1-Dichloroethane	2.93722	3.26707	0.010	-11.23017	30.00000	Averaged
37 2-Butanone	0.71848	0.80421	0.010	-11.93158	30.00000	Averaged
36 cis-1,2-Dichloroethene	0.85438	0.92419	0.010	-8.17004	30.00000	Averaged
38 Tetrahydrofuran	3.05813	3.95875	0.010	-29.45000	30.00000	Averaged
40 Chloroform	3.03655	3.35877	0.010	-10.61125	30.00000	Averaged
42 1,1,1-Trichloroethane	3.11769	3.54402	0.010	-13.67471	30.00000	Averaged
41 Cyclohexane	2.05887	2.33239	0.010	-13.28480	30.00000	Averaged
44 Carbon Tetrachloride	2.84631	3.52591	0.010	-23.87642	30.00000	Averaged
45 2,2,4-Trimethylpentane	3.21714	3.70920	0.010	-15.29496	30.00000	Averaged
46 Benzene	1.15301	1.26722	0.010	-9.90601	30.00000	Averaged
48 1,2-Dichloroethane	0.70601	0.83120	0.010	-17.73113	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdg.i Injection Date: 12-AUG-2008 08:36
Lab File ID: g081202.d Init. Cal. Date(s): 02-JUL-2008 02-JUL-2008
Analysis Type: AIR Init. Cal. Times: 08:28 13:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdg.i/12Aug2008.b/t14q702a.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
49 Heptane	1.23504	1.59785	0.010	-29.37613	30.00000	Averaged	
52 Trichloroethene	0.47256	0.48950	0.010	-3.58348	30.00000	Averaged	
53 1,2-Dichloropropane	0.51157	0.58245	0.010	-13.85627	30.00000	Averaged	
54 1,4-Dioxane	0.26125	0.29077	0.010	-11.29953	30.00000	Averaged	
55 Bromodichloromethane	0.82928	0.95396	0.010	-15.03547	30.00000	Averaged	
56 cis-1,3-Dichloropropene	0.61112	0.70891	0.010	-16.00051	30.00000	Averaged	
58 4-Methyl-2-pentanone	1.60869	2.08999	0.010	-29.91880	30.00000	Averaged	
60 Toluene	1.35442	1.50379	0.010	-11.02858	30.00000	Averaged	
61 trans-1,3-Dichloropropene	0.72100	0.85832	0.010	-19.04574	30.00000	Averaged	
63 1,1,2-Trichloroethane	0.52736	0.58426	0.010	-10.78927	30.00000	Averaged	
64 Tetrachloroethene	0.67972	0.73926	0.010	-8.75944	30.00000	Averaged	
67 2-Hexanone	0.70131	0.90968	0.010	-29.71184	30.00000	Averaged	
68 Dibromochloromethane	0.84512	0.98662	0.010	-16.74299	30.00000	Averaged	
69 1,2-Dibromoethane	0.23665	0.25786	0.010	-8.96063	30.00000	Averaged	
73 Chlorobenzene	1.33426	1.46856	0.010	-10.06558	30.00000	Averaged	
74 Ethyl Benzene	0.69196	0.79827	0.010	-15.36262	30.00000	Averaged	
75 m,p-Xylene	0.84950	0.99279	0.010	-16.86755	30.00000	Averaged	
77 o-Xylene	0.79789	0.94194	0.010	-18.05425	30.00000	Averaged	
78 Styrene	1.23364	1.52179	0.010	-23.35757	30.00000	Averaged	
79 Bromoform	0.80302	0.90071	0.010	-12.16526	30.00000	Averaged	
80 Cumene	2.26358	2.76323	0.010	-22.07335	30.00000	Averaged	
82 1,1,2,2-Tetrachloroethane	1.38578	1.59414	0.010	-15.03580	30.00000	Averaged	
83 Propylbenzene	2.99504	3.66995	0.010	-22.53455	30.00000	Averaged	
84 4-Ethyltoluene	2.45625	3.04483	0.010	-23.96253	30.00000	Averaged	
85 1,3,5-Trimethylbenzene	2.07118	2.50837	0.010	-21.10796	30.00000	Averaged	
87 1,2,4-Trimethylbenzene	1.94441	2.48807	0.010	-27.96018	30.00000	Averaged	
89 1,3-Dichlorobenzene	1.32478	1.50409	0.010	-13.53477	30.00000	Averaged	
90 1,4-Dichlorobenzene	1.37250	1.53811	0.010	-12.06655	30.00000	Averaged	
91 alpha-chlorotoluene	1.72308	2.27996	0.010	-32.31890	30.00000	Averaged	<-
94 1,2-Dichlorobenzene	1.27376	1.37754	0.010	-8.14753	30.00000	Averaged	
96 1,2,4-Trichlorobenzene	1.00766	1.17880	0.010	-16.98339	30.00000	Averaged	
97 Hexachlorobutadiene	0.86530	1.01246	0.010	-17.00768	30.00000	Averaged	
98 Naphthalene	2.03792	2.51045	0.010	-23.18649	30.00000	Averaged	
183 Butane	0.24835	0.28032	0.010	-12.87296	30.00000	Averaged	
14 Isopentane	1.25434	1.53525	0.010	-22.39526	40.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdg.i Injection Date: 12-AUG-2008 08:36
Lab File ID: g081202.d Init. Cal. Date(s): 02-JUL-2008 02-JUL-2008
Analysis Type: AIR Init. Cal. Times: 08:28 13:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdg.i/12Aug2008.b/t14q702a.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Methylcyclohexane	2.85676	3.16610	0.010	-10.82845	40.00000	Averaged
179 tert-Butyl Alcohol	3.09173	3.86800	0.010	-25.10791	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/12Aug2008.b/g081202.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 12-AUG-2008 08:36
Operator : mlk Inst ID: msdg.i
Smp Info : 250ml #1612-54
Misc Info : 50ppbv-25ppbv
Comment :
Method : /chem/msdg.i/12Aug2008.b/t14q702a.m
Meth Date : 12-Aug-2008 08:46 mkisling Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Q.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
==	====== ========	====	========	=======	=======		==========	=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	239617	10.0000			80.00- 120.00	100.00
9.002	9.002 (1.000)	128	188688				0.00- 30.00	78.75
9.002	9.002 (1.000)	49	670590				0.00- 30.00	279.86
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	925972	10.0000			80.00- 120.00	100.00
10.186	10.186 (1.000)	88	153821				0.00- 46.61	16.61
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	846555	10.0000			80.00- 120.00	100.00
15.319	15.319 (1.000)	82	543230				0.00- 30.00	64.17
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.667	9.667 (1.074)	65	501163	10.0000	10.897		80.00- 120.00	100.00
9.667	9.667 (1.074)	67	278564				0.00- 30.00	55.58
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1013393	10.0000	10.586		80.00- 120.00	100.00
12.499	12.499 (1.227)	70	126053				0.00- 42.44	12.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	635817			32.74- 92.74	62.74
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	504469	10.0000	10.258	80.00- 120.00	100.00
17.200	17.200 (1.123)	95	745124			117.70- 177.70	147.70
17.226	17.226 (1.125)	176	471031			63.37- 123.37	93.37
4 Propylene					CAS #: 115-07-1		
2.149	2.149 (0.239)	41	899841	25.0000	27.126	80.00- 120.00	100.00
2.149	2.149 (0.239)	42	581580			0.00- 30.00	64.63
2.149	2.149 (0.239)	39	672087			0.00- 30.00	74.69
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.294	2.294 (0.255)	85	2008082	25.0000	26.853	80.00- 120.00	100.00
2.294	2.294 (0.255)	87	640908			1.92- 61.92	31.92
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	1003657	25.0000	26.624	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	351290			0.00- 30.00	35.00
2.752	2.752 (0.306)	85	1611469			0.00- 30.00	160.56
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1463540	25.0000	28.686	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	434217			0.00- 30.00	29.67
9 Vinyl Chloride					CAS #: 75-01-4		
3.325	3.325 (0.369)	62	765195	25.0000	27.614	80.00- 120.00	100.00
3.325	3.325 (0.369)	64	222874			0.00- 59.13	29.13
10 1,3-Butadiene					CAS #: 106-99-0		
3.429	3.429 (0.381)	54	931774	25.0000	31.001	80.00- 120.00	100.00
3.429	3.429 (0.381)	39	1131916			0.00- 30.00	121.48
11 Bromomethane					CAS #: 74-83-9		
4.371	4.371 (0.486)	94	335406	25.0000	24.616	80.00- 120.00	100.00
4.371	4.371 (0.486)	96	315157			63.96- 123.96	93.96
13 Chloroethane					CAS #: 75-00-3		
4.723	4.723 (0.525)	64	331188	25.0000	32.006	80.00- 120.00	100.00
4.723	4.723 (0.525)	49	151767			0.00- 30.00	45.83
4.723	4.723 (0.525)	66	97294			0.00- 30.00	29.38
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	2515635	25.0000	27.901	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	1643447			35.33- 95.33	65.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	420130	25.0000	25.074	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	90589			0.00- 30.00	21.56
6.225	6.225 (0.692)	46	159904			0.00- 30.00	38.06
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	781281	25.0000	23.218	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	501043			34.13- 94.13	64.13
6.390	6.390 (0.710)	101	1127560			0.00- 30.00	144.32
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	382917	25.0000	26.613	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	1792573			0.00- 30.00	468.14
6.335	6.335 (0.704)	96	613695			0.00- 30.00	160.27
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	2763175	25.0000	30.838	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	566780			0.00- 30.00	20.51
24 2-Propanol					CAS #: 67-63-0		
7.048	7.048 (0.783)	45	2757871	25.0000	30.713	80.00- 120.00	100.00
7.048	7.048 (0.783)	43	615615			0.00- 30.00	22.32
7.048	7.048 (0.783)	59	78879			0.00- 30.00	2.86
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	306050	25.0000	27.494	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	2276967			0.00- 30.00	743.99
20 Carbon Disulfide					CAS #: 75-15-0		
6.499	6.499 (0.722)	76	2038647	25.0000	26.980	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	481904	25.0000	23.411	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	1529205			287.33- 347.33	317.33
7.213	7.213 (0.801)	51	446412			0.00- 30.00	92.64
29 MTBE					CAS #: 1634-04-4		
7.543	7.543 (0.838)	73	2445761	25.0000	30.485	80.00- 120.00	100.00
7.543	7.543 (0.838)	57	1102962			0.00- 30.00	45.10
7.543	7.543 (0.838)	41	2254453			0.00- 30.00	92.18
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	419431	25.0000	21.683	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	1751809			0.00- 30.00	417.66
7.515	7.515 (0.835)	96	668365			0.00- 30.00	159.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	2048390	25.0000	29.858	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	1871430			0.00- 30.00	91.36
7.790	7.790 (0.865)	86	206672			0.00- 30.00	10.09
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	4443368	25.0000	30.613	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	380167			0.00- 30.00	8.56
8.174	8.174 (0.908)	86	196515			0.00- 30.00	4.42
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	1957114	25.0000	27.808	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	574530			0.00- 59.36	29.36
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	481754	25.0000	27.983	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	3950176			789.96- 849.96	819.96
8.792	8.792 (0.977)	57	228822			0.00- 30.00	47.50
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	553628	25.0000	27.042	80.00- 120.00	100.00
8.747	8.747 (0.972)	61	1666114			270.94- 330.94	300.94
8.747	8.747 (0.972)	96	883812			129.64- 189.64	159.64
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2371462	25.0000	32.362	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	445491			0.00- 30.00	18.79
9.002	9.002 (1.000)	72	470716			0.00- 30.00	19.85
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	2012043	25.0000	27.653	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1262859			32.77- 92.77	62.77
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2123020	25.0000	28.419	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1356914			33.91- 93.91	63.91
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1397198	25.0000	28.321	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	2574583			0.00- 30.00	184.27
9.197	9.197 (1.022)	41	1913475			0.00- 30.00	136.95
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2112169	25.0000	30.969	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2229949			75.58- 135.58	105.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	2221971	25.0000	28.824	80.00- 120.00	100.00
9.638	9.638 (1.071)	99	240353			0.00- 30.00	10.82
9.638	9.638 (1.071)	41	2427160			0.00- 30.00	109.23
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	2933535	25.0000	27.476	80.00- 120.00	100.00
9.638	9.638 (0.946)	77	684144			0.00- 30.00	23.32
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	1924168	25.0000	29.433	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	584577			0.00- 30.00	30.38
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	3698906	25.0000	32.344	80.00- 120.00	100.00
9.871	9.871 (0.969)	57	1421361			0.00- 30.00	38.43
9.871	9.871 (0.969)	100	282324			0.00- 30.00	7.63
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	1133147	25.0000	25.896	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1248715			0.00- 30.00	110.20
10.475	10.475 (1.028)	97	814364			0.00- 30.00	71.87
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.860	10.860 (1.066)	63	1348333	25.0000	28.464	80.00- 120.00	100.00
10.860	10.860 (1.066)	62	971572			42.06- 102.06	72.06
10.860	10.860 (1.066)	41	1293195			65.91- 125.91	95.91
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	673114	25.0000	27.825	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	711173			75.65- 135.65	105.65
11.029	11.029 (1.083)	57	239912			0.00- 30.00	35.64
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	2208355	25.0000	28.759	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1370124			32.04- 92.04	62.04
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	1641070	25.0000	29.000	80.00- 120.00	100.00
12.089	12.089 (1.187)	77	515051			1.39- 61.39	31.39
12.089	12.089 (1.187)	39	1567402			65.51- 125.51	95.51
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.378	12.378 (1.215)	43	4838172	25.0000	32.480	80.00- 120.00	100.00
12.378	12.378 (1.215)	58	1304463			0.00- 30.00	26.96
12.378	12.378 (1.215)	85	392757			0.00- 30.00	8.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
12.643	12.643 (1.241)	91	3481175	25.0000	27.757	80.00- 120.00	100.00
12.643	12.643 (1.241)	92	2066982			29.38- 89.38	59.38
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.307	13.307 (0.869)	75	1816541	25.0000	29.761	80.00- 120.00	100.00
13.307	13.307 (0.869)	77	569473			1.35- 61.35	31.35
13.307	13.307 (0.869)	39	1607195			58.48- 118.48	88.48
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	1236526	25.0000	27.697	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	780577			33.13- 93.13	63.13
13.665	13.665 (0.892)	83	1131943			61.54- 121.54	91.54
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	1564569	25.0000	27.190	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1249065			49.83- 109.83	79.83
13.747	13.747 (0.897)	131	1196520			46.48- 106.48	76.48
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	1925243	25.0000	32.428	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	5078187			233.77- 293.77	263.77
14.132	14.132 (0.922)	100	252950			0.00- 30.00	13.14
68 Dibromochloromethane					CAS #: 124-48-1		
14.351	14.351 (0.937)	129	2088065	25.0000	29.186	80.00- 120.00	100.00
14.351	14.351 (0.937)	208	104596			0.00- 30.00	5.01
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	545728	25.0000	27.240	80.00- 120.00	100.00
14.516	14.516 (0.948)	109	508866			63.25- 123.25	93.25
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	3108038	25.0000	27.516	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1009213			2.47- 62.47	32.47
15.370	15.370 (1.003)	77	2048367			35.91- 95.91	65.91
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	1689442	25.0000	28.841	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	5495540			0.00- 30.00	325.29
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	2101131	25.0000	29.217	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	4429311			0.00- 30.00	210.81
77 o-Xylene					CAS #: 95-47-6		
16.375	16.375 (1.069)	106	1993505	25.0000	29.514	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
77 o-Xylene (continued)							
16.375	16.375 (1.069)	91	4435673			192.51- 252.51	222.51
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	3220701	25.0000	30.839	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	1846423			27.33- 87.33	57.33
79 Bromoform					CAS #: 75-25-2		
16.710	16.710 (1.091)	173	1906257	25.0000	28.041	80.00- 120.00	100.00
16.710	16.710 (1.091)	171	989713			0.00- 30.00	51.92
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	5848064	25.0000	30.518	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	1496995			0.00- 55.60	25.60
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	3373820	25.0000	28.759	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2094806			32.09- 92.09	62.09
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	7767046	25.0000	30.634	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	1650727			0.00- 30.00	21.25
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	6444036	25.0000	30.991	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	1867312			0.00- 58.98	28.98
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.819	17.819 (1.163)	105	5308677	25.0000	30.277	80.00- 120.00	100.00
17.819	17.819 (1.163)	120	2439550			15.95- 75.95	45.95
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	5265713	25.0000	31.990	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	2273065			13.17- 73.17	43.17
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.928	18.928 (1.236)	146	3183232	25.0000	28.384	80.00- 120.00	100.00
18.928	18.928 (1.236)	148	2027297			0.00- 30.00	63.69
18.928	18.928 (1.236)	111	1407028			0.00- 30.00	44.20
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	3255233	25.0000	28.017	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2062507			0.00- 30.00	63.36
19.083	19.083 (1.246)	111	1409849			0.00- 30.00	43.31
91 alpha-Chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	4825275	25.0000	33.080	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 alpha-Chlorotoluene (continued)							
19.315	19.315 (1.261)	126	884009			0.00- 30.00	18.32
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	2915406	25.0000	27.037	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	1856152			33.67- 93.67	63.67
19.625	19.625 (1.281)	111	1366078			16.86- 76.86	46.86
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	2494792	25.0000	29.246	80.00- 120.00	100.00
21.430	21.430 (1.399)	182	2374766			65.19- 125.19	95.19
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2142768	25.0000	29.252	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1338920			0.00- 30.00	62.49
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	5313076	25.0000	30.797	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	662365			0.00- 30.00	12.47
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	167921	25.0000	28.218	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	1928268			0.00- 30.00	1148.32
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	919680	25.0000	30.599	80.00- 120.00	100.00
4.848	4.848 (0.539)	43	1800245			0.00- 30.00	195.75
4.848	4.848 (0.539)	42	1564678			0.00- 30.00	170.13
2 Methylcyclohexane					CAS #: 108-87-2		
10.643	10.643 (1.182)	83	1896629	25.0000	27.707	80.00- 120.00	100.00
10.643	10.643 (1.182)	98	824118			0.00- 30.00	43.45
10.643	10.643 (1.182)	55	2426686			0.00- 30.00	127.95
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	2317099	25.0000	31.277	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	2254453			0.00- 30.00	97.30
7.543	7.543 (0.838)	57	1102962			0.00- 30.00	47.60

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g081202.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: mlk
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 50ppbv-25ppbv

Calibration Date: 12-AUG-2008
Calibration Time: 08:36
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	239617	143770	335464	239617	0.00
51 1,4-Difluorobenze	925972	555583	1296361	925972	0.00
72 Chlorobenzene-d5	846555	507933	1185177	846555	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/12Aug2008.b/g081202.d

Date : 12-AUG-2008 08:36

Client ID: CCV-1

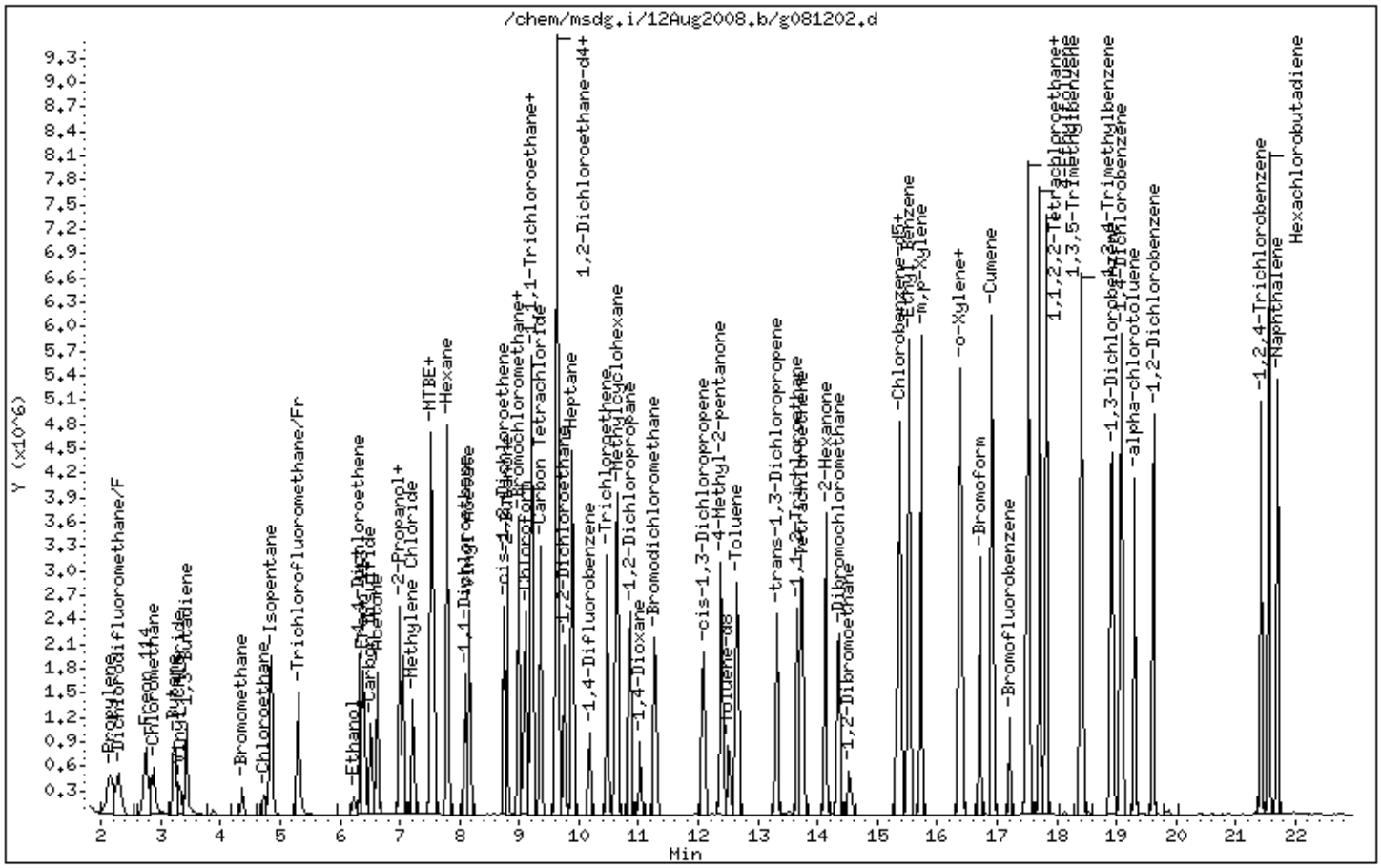
Instrument: msdg.i

Sample Info: 250ml #1612-54

Operator: mlk

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807628-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/08 10:15 AM**	

Compound	%Recovery
Freon 12	98
Freon 114	104
Vinyl Chloride	104
Bromomethane	104
Chloroethane	121
Freon 11	106
1,1-Dichloroethene	105
Freon 113	99
Methylene Chloride	93
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	100
Chloroform	103
1,1,1-Trichloroethane	106
Carbon Tetrachloride	112
Benzene	100
1,2-Dichloroethane	109
Trichloroethene	95
1,2-Dichloropropane	104
cis-1,3-Dichloropropene	105
Toluene	107
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	97
Tetrachloroethene	96
1,2-Dibromoethane (EDB)	96
Chlorobenzene	98
Ethyl Benzene	99
m,p-Xylene	103
o-Xylene	107
Styrene	108
1,1,2,2-Tetrachloroethane	103
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	98
1,3-Butadiene	116
Hexane	111
Cyclohexane	103

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807628-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g081204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/12/08 10:15 AM**	

Compound	%Recovery
Heptane	119
Bromodichloromethane	107
Dibromochloromethane	103
Cumene	111
Propylbenzene	112
Chloromethane	104
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	96
Acetone	107
Carbon Disulfide	96
2-Propanol	116
trans-1,2-Dichloroethene	102
2-Butanone (Methyl Ethyl Ketone)	102
Tetrahydrofuran	115
1,4-Dioxane	104
4-Methyl-2-pentanone	122
2-Hexanone	112
Bromoform	106
4-Ethyltoluene	111
Ethanol	96
Methyl tert-butyl ether	114
3-Chloropropene	96
2,2,4-Trimethylpentane	105
Naphthalene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 12-Aug-2008 10:27

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 12Aug2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: mlk
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08Q.sub
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 25ppbv -> 25ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Dichlorodifluorome	25.000	24.404	97.62	70-130
7 Freon 114	25.000	26.013	104.05	70-130
8 Chloromethane	25.000	25.981	103.92	70-130
9 Vinyl Chloride	25.000	26.093	104.37	70-130
10 1,3-Butadiene	25.000	28.980	115.92	60-140
11 Bromomethane	25.000	25.977	103.91	70-130
13 Chloroethane	25.000	30.188	120.75	70-130
16 Trichlorofluoromet	25.000	26.389	105.56	70-130
17 Ethanol	25.000	24.130	96.52	60-140
19 Freon 113	25.000	24.710	98.84	70-130
18 1,1-Dichloroethene	25.000	26.232	104.93	70-130
21 Acetone	25.000	26.690	106.76	60-140
20 Carbon Disulfide	25.000	24.039	96.16	60-140
24 2-Propanol	25.000	28.911	115.65	60-140
28 Methylene Chloride	25.000	23.258	93.03	70-130
29 MTBE	25.000	28.428	113.71	60-140
30 trans-1,2-Dichloro	25.000	25.588	102.35	60-140
32 Hexane	25.000	27.695	110.78	60-140
33 1,1-Dichloroethane	25.000	26.456	105.82	70-130
36 cis-1,2-Dichloroet	25.000	25.052	100.21	70-130
37 2-Butanone	25.000	25.502	102.01	60-140
38 Tetrahydrofuran	25.000	28.682	114.73	60-140
40 Chloroform	25.000	25.655	102.62	70-130
41 Cyclohexane	25.000	25.852	103.41	60-140
42 1,1,1-Trichloroeth	25.000	26.616	106.46	70-130
44 Carbon Tetrachlori	25.000	28.137	112.55	70-130
46 Benzene	25.000	24.879	99.52	70-130
49 Heptane	25.000	29.858	119.43	60-140
48 1,2-Dichloroethane	25.000	27.344	109.37	70-130
52 Trichloroethene	25.000	23.770	95.08	70-130
53 1,2-Dichloropropan	25.000	26.019	104.08	70-130
54 1,4-Dioxane	25.000	25.986	103.94	60-140
55 Bromodichlorometha	25.000	26.783	107.13	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
56 cis-1,3-Dichloropr	25.000	26.150	104.60	70-130
58 4-Methyl-2-pentano	25.000	30.559	122.23	60-140
60 Toluene	25.000	26.860	107.44	70-130
61 trans-1,3-Dichloro	25.000	25.116	100.47	70-130
63 1,1,2-Trichloroeth	25.000	24.328	97.31	70-130
67 2-Hexanone	25.000	28.131	112.52	60-140
64 Tetrachloroethene	25.000	24.055	96.22	70-130
68 Dibromochlorometha	25.000	25.832	103.33	60-140
69 1,2-Dibromoethane	25.000	23.898	95.59	70-130
73 Chlorobenzene	25.000	24.436	97.75	70-130
74 Ethyl Benzene	25.000	24.653	98.61	70-130
75 m,p-Xylene	25.000	25.729	102.92	70-130
77 o-Xylene	25.000	26.717	106.87	70-130
78 Styrene	25.000	26.997	107.99	70-130
79 Bromoform	25.000	26.441	105.77	60-140
80 Cumene	25.000	27.834	111.34	60-140
82 1,1,2,2-Tetrachlor	25.000	25.866	103.47	70-130
83 Propylbenzene	25.000	28.063	112.25	60-140
84 4-Ethyltoluene	25.000	27.861	111.44	60-140
85 1,3,5-Trimethylben	25.000	26.870	107.48	70-130
87 1,2,4-Trimethylben	25.000	28.023	112.09	70-130
89 1,3-Dichlorobenzen	25.000	25.406	101.62	70-130
90 1,4-Dichlorobenzen	25.000	24.826	99.30	70-130
91 alpha-Chlorotoluen	25.000	27.603	110.41	70-130
94 1,2-Dichlorobenzen	25.000	24.446	97.79	70-130
96 1,2,4-Trichloroben	25.000	25.927	103.71	70-130
97 Hexachlorobutadien	25.000	23.884	95.53	60-130
98 Naphthalene	25.000	26.989	107.96	60-140
25 3-Chloroprene	25.000	24.140	96.56	60-140
45 2,2,4-Trimethylpen	25.000	26.359	105.44	60-140
179 tert-Butyl Alcohol	25.000	27.456	109.83	60-140
183 Butane	25.000	29.352	117.41	60-140
14 Isopentane	25.000	27.844	111.38	60-140
2 Methylcyclohexane	25.000	25.924	103.70	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.808	108.08	70-130
$ 59 Toluene-d8	10.000	10.653	106.53	70-130
$ 81 Bromofluorobenzene	10.000	10.459	104.59	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/12Aug2008.b/g081204.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 12-AUG-2008 10:15
Operator : mlk Inst ID: msdg.i
Smp Info : 500ml #1541-227A;LCS-1;LCS-1
Misc Info : 25ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/12Aug2008.b/t14q702a.m
Meth Date : 12-Aug-2008 08:46 mkisling Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Q.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
* 39 Bromochloromethane						CAS #: 74-97-5	
9.002	9.002 (1.000)	130	255716	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	194122			0.00- 30.00	75.91
9.002	9.002 (1.000)	49	927927			0.00- 30.00	362.87
* 51 1,4-Difluorobenzene						CAS #: 540-36-3	
10.186	10.186 (1.000)	114	988756	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	167076			0.00- 46.61	16.90
* 72 Chlorobenzene-d5						CAS #: 3114-55-4	
15.319	15.319 (1.000)	117	962226	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	618673			0.00- 30.00	64.30
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
9.668	9.667 (1.074)	65	530465	10.8078	10.808	80.00- 120.00	100.00
9.668	9.667 (1.074)	67	287867			0.00- 30.00	54.27
$ 59 Toluene-d8						CAS #: 2037-26-5	
12.499	12.499 (1.227)	98	1088929	10.6533	10.653	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	132809			0.00- 42.44	12.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	693786			32.74- 92.74	63.71
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	584639	10.4593	10.459	80.00- 120.00	100.00
17.201	17.200 (1.123)	95	857692			117.70- 177.70	146.70
17.226	17.226 (1.125)	176	551790			63.37- 123.37	94.38
4 Propylene					CAS #: 115-07-1		
2.149	2.149 (0.239)	41	959134	27.0930	27.093	80.00- 120.00	100.00
2.173	2.149 (0.241)	42	640928			0.00- 30.00	66.82
2.173	2.149 (0.241)	39	721057			0.00- 30.00	75.18
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.318	2.294 (0.257)	85	1947574	24.4044	24.404	80.00- 120.00	100.00
2.318	2.294 (0.257)	87	622797			1.92- 61.92	31.98
7 Freon 114					CAS #: 76-14-2		
2.776	2.752 (0.308)	135	1046521	26.0132	26.013	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	358944			0.00- 30.00	34.30
2.752	2.752 (0.306)	85	1696946			0.00- 30.00	162.15
8 Chloromethane					CAS #: 74-87-3		
2.896	2.872 (0.322)	50	1414595	25.9807	25.981	80.00- 120.00	100.00
2.896	2.872 (0.322)	52	430256			0.00- 30.00	30.42
9 Vinyl Chloride					CAS #: 75-01-4		
3.325	3.325 (0.369)	62	771624	26.0935	26.093	80.00- 120.00	100.00
3.325	3.325 (0.369)	64	227935			0.00- 59.13	29.54
10 1,3-Butadiene					CAS #: 106-99-0		
3.447	3.429 (0.383)	54	929564	28.9804	28.980	80.00- 120.00	100.00
3.447	3.429 (0.383)	39	1220784			0.00- 30.00	131.33
11 Bromomethane					CAS #: 74-83-9		
4.371	4.371 (0.486)	94	377727	25.9769	25.977	80.00- 120.00	100.00
4.371	4.371 (0.486)	96	359948			63.96- 123.96	95.29
13 Chloroethane					CAS #: 75-00-3		
4.724	4.723 (0.525)	64	333363	30.1885	30.188	80.00- 120.00	100.00
4.724	4.723 (0.525)	49	152425			0.00- 30.00	45.72
4.724	4.723 (0.525)	66	97431			0.00- 30.00	29.23
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	2539165	26.3889	26.389	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	1617290			35.33- 95.33	63.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	431471	24.1299	24.130	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	89372			0.00- 30.00	20.71
6.225	6.225 (0.692)	46	163066			0.00- 30.00	37.79
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	887330	24.7099	24.710	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	558046			34.13- 94.13	62.89
6.390	6.390 (0.710)	101	1270521			0.00- 30.00	143.18
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	402801	26.2325	26.232	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	1888154			0.00- 30.00	468.76
6.335	6.335 (0.704)	96	643699			0.00- 30.00	159.81
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	2552090	26.6895	26.690	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	507298			0.00- 30.00	19.88
24 2-Propanol					CAS #: 67-63-0		
7.049	7.048 (0.783)	45	2770499	28.9114	28.911	80.00- 120.00	100.00
7.049	7.048 (0.783)	43	643466			0.00- 30.00	23.23
7.049	7.048 (0.783)	59	76792			0.00- 30.00	2.77
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	286769	24.1396	24.140	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	2223817			0.00- 30.00	775.47
20 Carbon Disulfide					CAS #: 75-15-0		
6.527	6.499 (0.725)	76	1938515	24.0395	24.039	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	510931	23.2581	23.258	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	1668491			287.33- 347.33	326.56
7.213	7.213 (0.801)	51	476999			0.00- 30.00	93.36
29 MTBE					CAS #: 1634-04-4		
7.543	7.543 (0.838)	73	2434034	28.4285	28.428	80.00- 120.00	100.00
7.543	7.543 (0.838)	57	1049321			0.00- 30.00	43.11
7.543	7.543 (0.838)	41	2255117			0.00- 30.00	92.65
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	528222	25.5878	25.588	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	1821804			0.00- 30.00	344.89
7.515	7.515 (0.835)	96	826403			0.00- 30.00	156.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	2027710	27.6954	27.695	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	1845091			0.00- 30.00	90.99
7.790	7.790 (0.865)	86	204786			0.00- 30.00	10.10
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	4392446	28.3570	28.357	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	375369			0.00- 30.00	8.55
8.174	8.174 (0.908)	86	187451			0.00- 30.00	4.27
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	1987085	26.4559	26.456	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	588171			0.00- 59.36	29.60
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	468533	25.5016	25.502	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	3821421			789.96- 849.96	815.61
8.792	8.792 (0.977)	57	223075			0.00- 30.00	47.61
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	547339	25.0522	25.052	80.00- 120.00	100.00
8.747	8.747 (0.972)	61	1623811			270.94- 330.94	296.67
8.747	8.747 (0.972)	96	857405			129.64- 189.64	156.65
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2242946	28.6817	28.682	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	422697			0.00- 30.00	18.85
9.002	9.002 (1.000)	72	449665			0.00- 30.00	20.05
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	1992077	25.6548	25.655	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1249912			32.77- 92.77	62.74
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2121954	26.6162	26.616	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1358374			33.91- 93.91	64.02
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1361046	25.8515	25.852	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	2571504			0.00- 30.00	188.94
9.197	9.197 (1.022)	41	1899845			0.00- 30.00	139.59
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2047980	28.1375	28.137	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2123295			75.58- 135.58	103.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	2168497	26.3591	26.359	80.00- 120.00	100.00
9.638	9.638 (1.071)	99	236981			0.00- 30.00	10.93
9.638	9.638 (1.071)	41	2402071			0.00- 30.00	110.77
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	2836348	24.8793	24.879	80.00- 120.00	100.00
9.638	9.638 (0.946)	77	666136			0.00- 30.00	23.49
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	1908796	27.3437	27.344	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	576895			0.00- 30.00	30.22
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	3646125	29.8580	29.858	80.00- 120.00	100.00
9.871	9.871 (0.969)	57	1401231			0.00- 30.00	38.43
9.871	9.871 (0.969)	100	280611			0.00- 30.00	7.70
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	1110632	23.7697	23.770	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1251500			0.00- 30.00	112.68
10.475	10.475 (1.028)	97	816115			0.00- 30.00	73.48
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.860 (1.066)	63	1316069	26.0188	26.019	80.00- 120.00	100.00
10.861	10.860 (1.066)	62	945912			42.06- 102.06	71.87
10.861	10.860 (1.066)	41	1267935			65.91- 125.91	96.34
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	671241	25.9856	25.986	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	700964			75.65- 135.65	104.43
11.029	11.029 (1.083)	57	232456			0.00- 30.00	34.63
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	2196115	26.7835	26.783	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1354859			32.04- 92.04	61.69
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	1580113	26.1499	26.150	80.00- 120.00	100.00
12.089	12.089 (1.187)	77	502036			1.39- 61.39	31.77
12.089	12.089 (1.187)	39	1544741			65.51- 125.51	97.76
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.378 (1.215)	43	4860656	30.5587	30.559	80.00- 120.00	100.00
12.379	12.378 (1.215)	58	1315728			0.00- 30.00	27.07
12.379	12.378 (1.215)	85	386085			0.00- 30.00	7.94

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
12.644	12.643 (1.241)	91	3597031	26.8597	26.860	80.00- 120.00	100.00
12.644	12.643 (1.241)	92	2101731			29.38- 89.38	58.43
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.307 (0.869)	75	1742500	25.1165	25.116	80.00- 120.00	100.00
13.308	13.307 (0.869)	77	545278			1.35- 61.35	31.29
13.308	13.307 (0.869)	39	1576947			58.48- 118.48	90.50
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	1234527	24.3284	24.328	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	757321			33.13- 93.13	61.35
13.665	13.665 (0.892)	83	1123568			61.54- 121.54	91.01
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	1573336	24.0554	24.055	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1244037			49.83- 109.83	79.07
13.747	13.747 (0.897)	131	1176368			46.48- 106.48	74.77
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	1898334	28.1310	28.131	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	5068616			233.77- 293.77	267.00
14.132	14.132 (0.922)	100	242285			0.00- 30.00	12.76
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.351 (0.937)	129	2100668	25.8323	25.832	80.00- 120.00	100.00
14.352	14.351 (0.937)	208	101356			0.00- 30.00	4.82
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	544195	23.8982	23.898	80.00- 120.00	100.00
14.516	14.516 (0.948)	109	512052			63.25- 123.25	94.09
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	3137309	24.4366	24.436	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1003109			2.47- 62.47	31.97
15.370	15.370 (1.003)	77	2030501			35.91- 95.91	64.72
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	1641462	24.6531	24.653	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	5395197			0.00- 30.00	328.68
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	2103149	25.7294	25.729	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	4436798			0.00- 30.00	210.96
77 o-Xylene					CAS #: 95-47-6		
16.376	16.375 (1.069)	106	2051166	26.7167	26.717	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
77 o-Xylene (continued)							
16.376	16.375 (1.069)	91	4503109			192.51- 252.51	219.54
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	3204719	26.9975	26.997	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	1875568			27.33- 87.33	58.53
79 Bromoform					CAS #: 75-25-2		
16.711	16.710 (1.091)	173	2043090	26.4413	26.441	80.00- 120.00	100.00
16.711	16.710 (1.091)	171	1048488			0.00- 30.00	51.32
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	6062411	27.8338	27.834	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	1572692			0.00- 55.60	25.94
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	3449109	25.8664	25.866	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2156139			32.09- 92.09	62.51
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	8087519	28.0631	28.063	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	1716725			0.00- 30.00	21.23
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	6584822	27.8609	27.861	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	1900414			0.00- 58.98	28.86
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.819 (1.163)	105	5354959	26.8696	26.870	80.00- 120.00	100.00
17.820	17.819 (1.163)	120	2476012			15.95- 75.95	46.24
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	5243073	28.0235	28.023	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	2279600			13.17- 73.17	43.48
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.928 (1.236)	146	3238570	25.4057	25.406	80.00- 120.00	100.00
18.929	18.928 (1.236)	148	2065771			0.00- 30.00	63.79
18.929	18.928 (1.236)	111	1457954			0.00- 30.00	45.02
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	3278586	24.8255	24.826	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2090978			0.00- 30.00	63.78
19.083	19.083 (1.246)	111	1403223			0.00- 30.00	42.80
91 alpha-Chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	4576593	27.6032	27.603	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
91 alpha-Chlorotoluene (continued)							
19.315	19.315 (1.261)	126	844913			0.00- 30.00	18.46
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	2996255	24.4464	24.446	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	1890028			33.67- 93.67	63.08
19.625	19.625 (1.281)	111	1403764			16.86- 76.86	46.85
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	2513901	25.9272	25.927	80.00- 120.00	100.00
21.430	21.430 (1.399)	182	2400869			65.19- 125.19	95.50
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	1988580	23.8836	23.884	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1254537			0.00- 30.00	63.09
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	5292432	26.9892	26.989	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	669055			0.00- 30.00	12.64
183 Butane					CAS #: 106-97-8		
3.239	3.221 (0.360)	58	186400	29.3515	29.352	80.00- 120.00	100.00
3.239	3.221 (0.360)	43	2072848			0.00- 30.00	1112.04
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	893104	27.8439	27.844	80.00- 120.00	100.00
4.848	4.848 (0.539)	43	1803172			0.00- 30.00	201.90
4.848	4.848 (0.539)	42	1542556			0.00- 30.00	172.72
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.643 (1.182)	83	1893803	25.9241	25.924	80.00- 120.00	100.00
10.644	10.643 (1.182)	98	839753			0.00- 30.00	44.34
10.644	10.643 (1.182)	55	2442110			0.00- 30.00	128.95
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	2170735	27.4566	27.456	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	2255117			0.00- 30.00	103.89
7.543	7.543 (0.838)	57	1049321			0.00- 30.00	48.34

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g081204.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: mlk
Method File: /chem/msdg.i/12Aug2008.b/t14q702a.m
Misc Info: 25ppbv -> 25ppbv

Calibration Date: 12-AUG-2008
Calibration Time: 08:36
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	239617	143770	335464	255716	6.72
51 1,4-Difluorobenze	925972	555583	1296361	988756	6.78
72 Chlorobenzene-d5	846555	507933	1185177	962226	13.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/12Aug2008.b/g081204.d

Date : 12-AUG-2008 10:15

Client ID: LCS-1

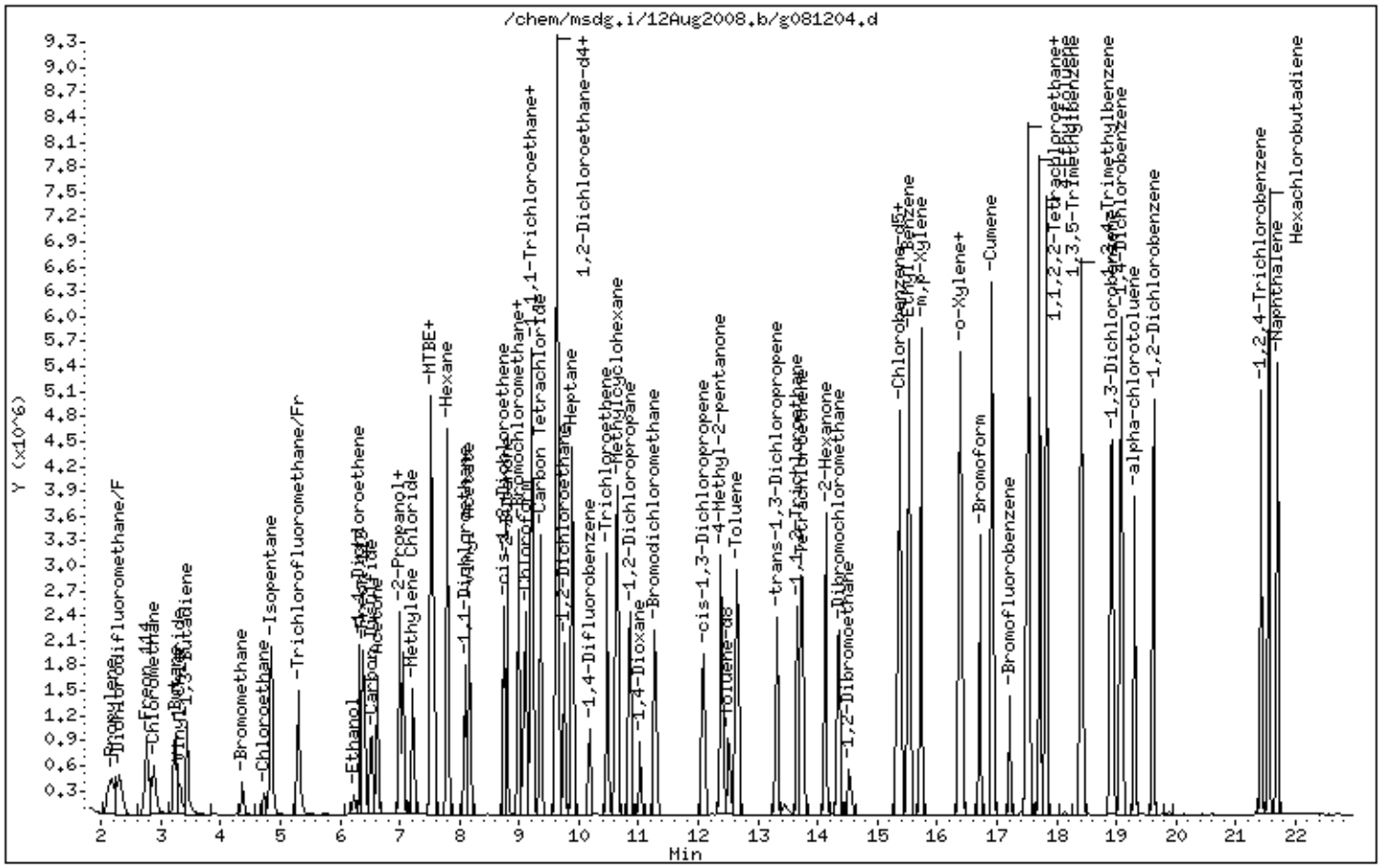
Instrument: msdg.i

Sample Info: 500ml #1541-227A;LCS-1;LCS-1

Operator: mlk

Column phase: RTx-624

Column diameter: 0.32



@ Air Toxics Ltd.

MSD-G

Logbook #: 1640

0163

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	33.62
75	30.0 – 60.0% of mass 95	53.65
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.85
173	Less than 2.0% of mass 174	(1.09)[1]
174	Greater than 50.0% of mass 95	67.08
175	5.0 – 9.0% of mass 174	(7.47)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.96)[1] ✓
177	5.0 – 9.0% of mass 176	(6.81)[2]

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

BFB Injection Date: 8-12-08
BFB Injection Time: 0758
BFB File ID: G081201
Tekmar Purge Flow: —— MK 8/12/08
Vacuum: 6.11 X10^-6

IS/S Std.#: 1612-77		Exp. Date: 10-18-08
BCM	239617	
1,4-DFB	925972	
CB-d5	846555	

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

Verify 176/174 m/z Ratio: (~~217088/228926~~ 289152/301312) 100 = 95.9643 (MK 8/12/08)

NOAH Cart #: NA File #: NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1013393)}{(925972)} \times \frac{(10.0)}{(1.03377)} = 10.5866$

Reported Result 10.586 ✓

File ID: G081207
Compound: Toluene-d8
Initials: MK

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	G0812-01	BFB Tune Check	1476-931	50ng	2ul	1.0	8-12-08	0758	MK/	Apex
2	✓	02	CCV-1 1612-54	50ppbv	25ppbv	250ml			0836	MK/	
3	X	03	LCS-1 1511-227A	25ppbv	25ppbv	500mL			0926	MK/	Bad load: loaded 250ml
4	✓	04	↓	↓	↓	↓			1015	MK/	
5	X	05	System Blank	dry	—	500mL			1108	MK/	
6	✓	06	Lab Blank	34034	Humid	500mL	↓		1150	MK/	
7	✓	07	0807628-01A	34014	9.5"Hg-5psi	500mL	1.96		1302	MK/	
8	✓	08	↓ 02A	5600	10.0"Hg-5psi	500	2.01		1357		
9	✓	09	0808037-01A	22677	5.5"Hg-5psi	500ml	1.64	↓	1448		

Signature [signature] Date 8-12-08

Air Toxics Ltd.

Data file : /chem/msdg.i/02Jul2008.b/g070201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-JUL-2008 08:02
Operator : lmr Inst ID: msdg.i
Smp Info : 2uL #1476-431;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msdg.i/02Jul2008.b/bfb30.m
Meth Date : 26-Feb-2008 11:31 tsanfel 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		
3.758	3.806	-0.048	95	672384			100.00- 100.00	100.00
3.758	3.806	-0.048	50	212008			15.00- 40.00	31.53
3.758	3.806	-0.048	75	353664			30.00- 60.00	52.60
3.758	3.806	-0.048	96	44803			5.00- 9.00	6.66
3.758	3.806	-0.048	173	3801			0.00- 2.00	0.81
3.758	3.806	-0.048	174	466624			50.00- 100.00	69.40
3.758	3.806	-0.048	175	32957			5.00- 9.00	7.06
3.758	3.806	-0.048	176	453845			95.00- 101.00	97.26
3.758	3.806	-0.048	177	29416			5.00- 9.00	6.48

Data File: /chem/msdg.i/02Jul2008.b/g070201.d

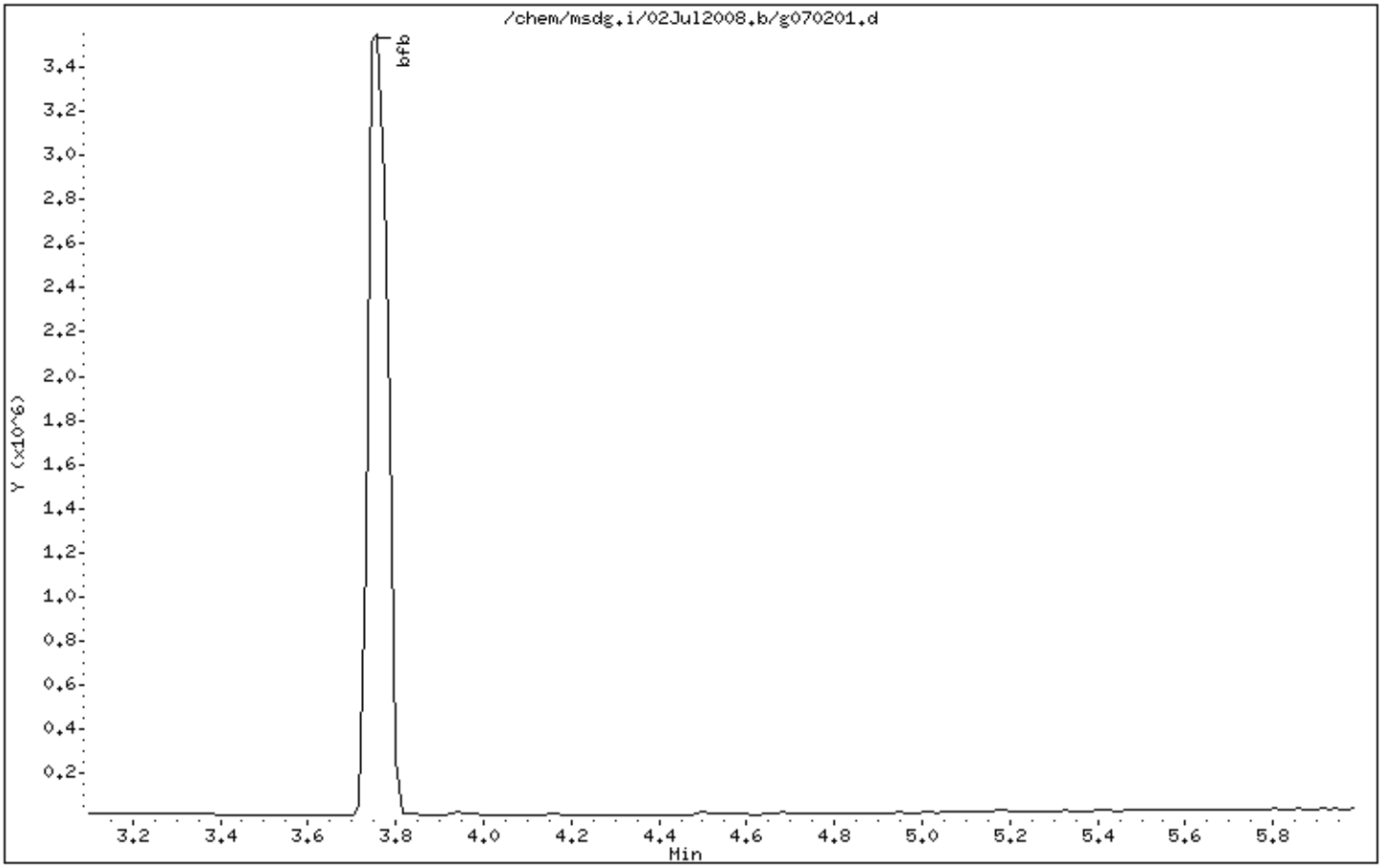
Date : 02-JUL-2008 08:02

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msdg.i/02Jul2008.b/g070201.d

Date : 02-JUL-2008 08:02

Client ID: BFB

Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

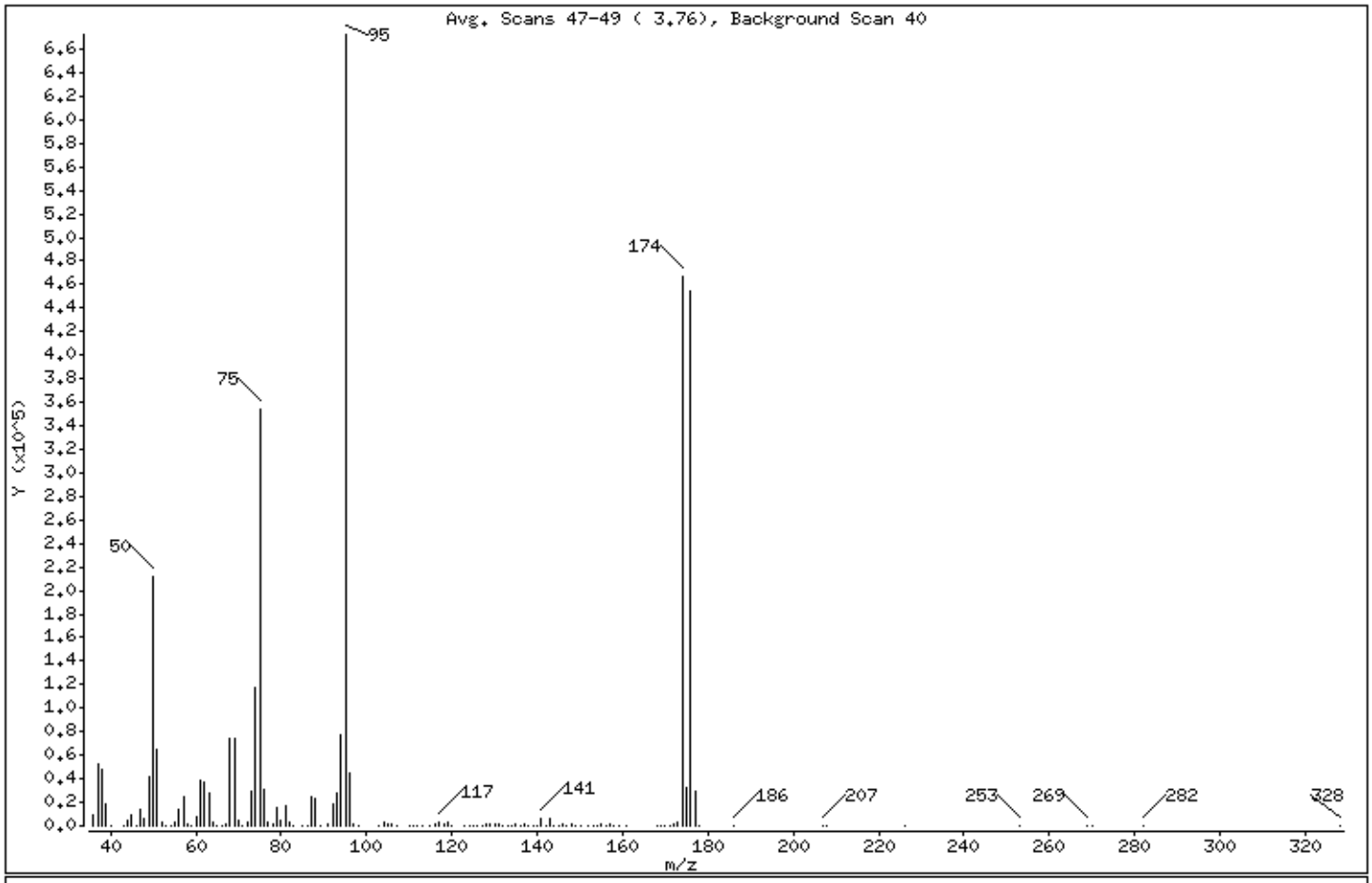
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	31.53
75	30.00 - 60.00% of mass 95	52.60
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.57 (0.81)
174	50.00 - 100.00% of mass 95	69.40
175	5.00 - 9.00% of mass 174	4.90 (7.06)
176	95.00 - 101.00% of mass 174	67.50 (97.26)
177	5.00 - 9.00% of mass 176	4.37 (6.48)

Date : 02-JUL-2008 08:02

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: g070201.d
Spectrum: Avg. Scans 47-49 (3.76), Background Scan 40
Location of Maximum: 95.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8842	71.00	187	112.00	405	148.00	1369
37.00	51960	72.00	3260	113.00	495	149.00	326
38.00	47424	73.00	29280	115.00	639	150.00	633
39.00	18984	74.00	117600	116.00	1882	152.00	296
40.00	373	75.00	353664	117.00	3783	153.00	496
43.00	206	76.00	30240	118.00	2283	154.00	304
44.00	4835	77.00	3785	119.00	2902	155.00	1335
45.00	9537	78.00	2035	120.00	34	156.00	411
46.00	618	79.00	15696	123.00	219	157.00	952
47.00	14246	80.00	4917	124.00	369	158.00	348
48.00	5938	81.00	16248	125.00	194	159.00	577
49.00	42488	82.00	3169	126.00	333	161.00	655
50.00	211968	83.00	439	127.00	239	168.00	43
51.00	64504	85.00	46	128.00	2079	169.00	81
52.00	2641	86.00	623	129.00	1049	170.00	145
53.00	116	87.00	24712	130.00	2095	171.00	110
54.00	60	88.00	23896	131.00	792	172.00	1106
55.00	2322	89.00	38	132.00	87	173.00	3801
56.00	13547	91.00	2258	133.00	36	174.00	466624
57.00	24064	92.00	18256	134.00	207	175.00	32952
58.00	1024	93.00	27136	135.00	943	176.00	453824
59.00	80	94.00	77168	136.00	214	177.00	29416
60.00	8136	95.00	672384	137.00	1017	178.00	755
61.00	38824	96.00	44800	138.00	145	186.00	34
62.00	37368	97.00	1598	139.00	192	207.00	90
63.00	27400	98.00	45	140.00	368	208.00	74
64.00	2853	103.00	290	141.00	5691	226.00	71
65.00	601	104.00	2528	142.00	679	253.00	35
66.00	36	105.00	854	143.00	5553	269.00	98
67.00	1474	106.00	2179	144.00	463	270.00	42
68.00	73624	107.00	552	145.00	492	282.00	37
69.00	73568	110.00	436	146.00	828	328.00	40
70.00	5406	111.00	606	147.00	402		

Air Toxics Ltd.

Data file : /chem/msdg.i/12Aug2008.b/g081201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-AUG-2008 07:58
Operator : mlk Inst ID: msdg.i
Smp Info : 2uL #1476-431;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msdg.i/12Aug2008.b/bfb30.m
Meth Date : 18-Jul-2008 09:34 lrandolp 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

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	
3.759	3.806	-0.047	95	449216			100.00- 100.00	100.00
3.759	3.806	-0.047	50	151040			15.00- 40.00	33.62
3.759	3.806	-0.047	75	241024			30.00- 60.00	53.65
3.759	3.806	-0.047	96	30760			5.00- 9.00	6.85
3.759	3.806	-0.047	173	3128			0.00- 2.00	1.04
3.759	3.806	-0.047	174	301312			50.00- 100.00	67.08
3.759	3.806	-0.047	175	22504			5.00- 9.00	7.47
3.759	3.806	-0.047	176	289152			95.00- 101.00	95.96
3.759	3.806	-0.047	177	19696			5.00- 9.00	6.81

Data File: /chem/msdg.i/12Aug2008.b/g081201.d

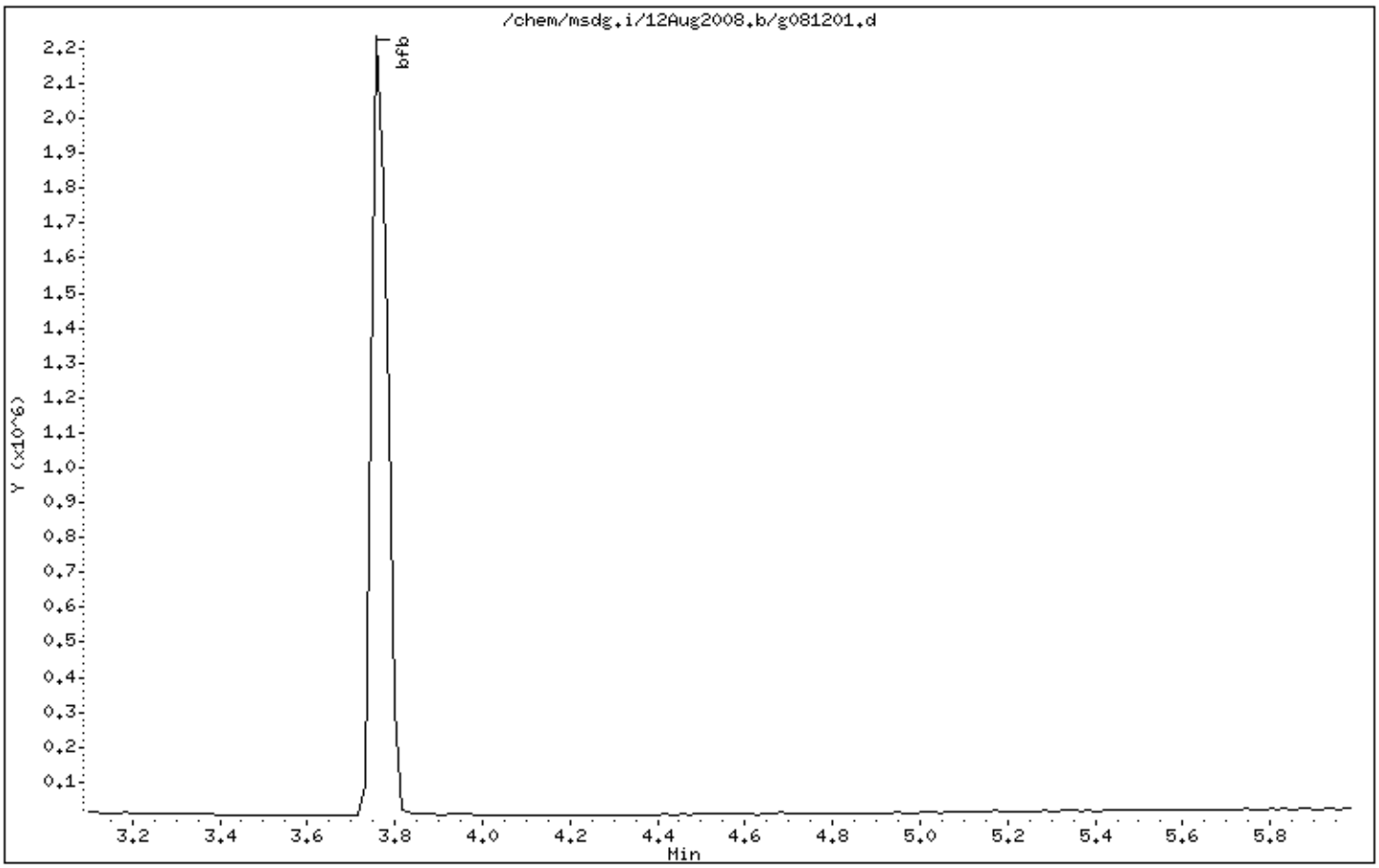
Date : 12-AUG-2008 07:58

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: mlk

Column phase: Column diameter: 2.00



Data File: /chem/msdg.i/12Aug2008.b/g081201.d

Date : 12-AUG-2008 07:58

Client ID: BFB

Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

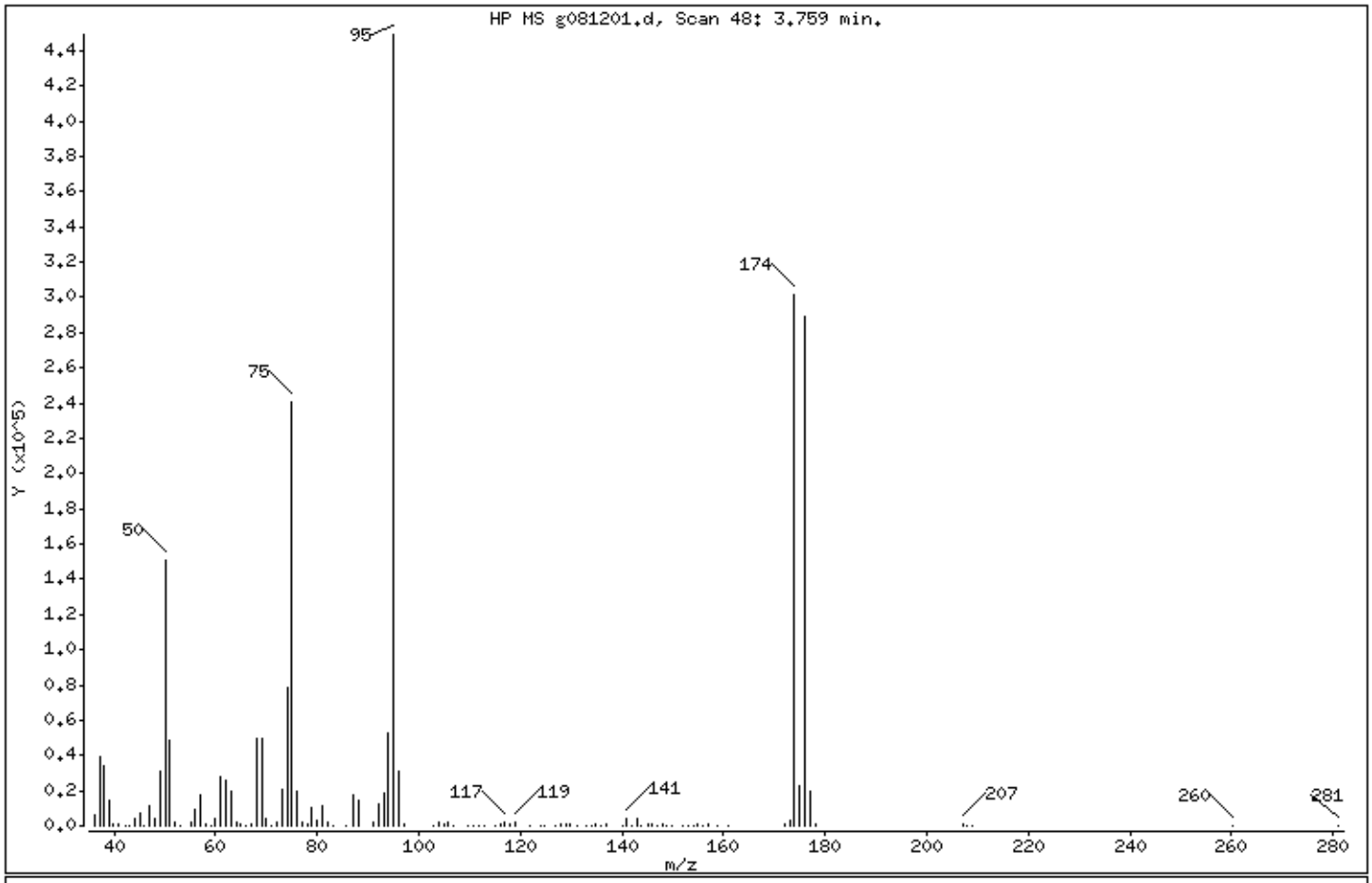
Volume Injected (uL): 1.0

Operator: mlk

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	33.62
75	30.00 - 60.00% of mass 95	53.65
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.70 (1.04)
174	50.00 - 100.00% of mass 95	67.08
175	5.00 - 9.00% of mass 174	5.01 (7.47)
176	95.00 - 101.00% of mass 174	64.37 (95.96)
177	5.00 - 9.00% of mass 176	4.38 (6.81)

Date : 12-AUG-2008 07:58

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: mlk

Column phase: Column diameter: 2.00

Data File: g081201.d
Spectrum: HP MS g081201.d, Scan 48: 3.759 min.
Location of Maximum: 95.00
Number of points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	6439	65.80	140	103.90	1800	142.90	4047
37.10	38856	67.00	1368	104.90	604	143.80	110
38.00	34184	68.00	49632	105.90	1708	145.00	520
39.10	14500	69.00	49584	106.90	334	145.80	636
39.90	1083	70.00	3617	109.80	232	146.90	252
41.00	532	71.10	151	110.80	275	147.90	899
42.10	190	72.00	2180	111.90	333	148.90	160
43.00	396	73.00	21080	112.80	436	149.90	435
44.00	4285	74.00	78288	114.90	440	152.00	152
45.10	6797	75.00	241024	116.00	1080	153.00	237
46.00	492	76.00	20048	116.90	2572	154.00	247
47.00	11553	77.10	2478	117.90	1519	155.00	1057
48.00	4027	78.10	1377	118.90	1720	155.90	297
49.00	30576	78.90	9998	121.70	134	156.90	808
50.00	151040	79.90	3197	124.00	227	158.90	509
51.00	48312	80.90	11369	124.90	145	160.90	371
52.00	2215	81.90	1918	126.90	156	171.90	1257
53.10	246	83.00	167	127.90	1510	173.00	3128
55.00	1869	85.80	342	128.90	858	174.00	301312
56.00	9285	87.00	17128	129.90	1165	175.00	22504
57.00	17520	88.00	14327	131.00	514	176.00	289152
58.00	547	90.90	1567	133.10	213	177.00	19696
59.00	120	92.00	12590	134.00	123	178.00	645
60.00	4441	93.00	18336	134.90	827	207.10	760
61.00	27376	94.00	52776	135.90	154	208.00	220
62.00	25768	95.00	449216	136.90	775	208.90	176
63.00	19664	96.00	30760	140.00	288	260.10	113
64.00	1856	97.00	1261	140.90	4070	281.10	130
65.00	964	102.90	196	141.90	432		

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 #: 0807628
# of pages (Including Cover): 1

8/18/2008

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0174

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

Project Info:

P.O. #

Project # 061140 - 8 - 1703

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

☒ Normal

☐ Rush _____

Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AMS3 DW 34018	07/30/08 0545/1345	TO-15 + Naphthalene	-30	-10	
02A	AMS1 DW 22107	07/30/08 0545/1345	TO-15 + Naphthalene	-30	-8	

Relinquished By: (Signature) Date/Time Thomas R Tan 07/30/08 1400

Received By: (Signature) Date/Time Monica Gregson AIT 7/31/08 940

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@geiconsultants.com

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		MG	NA	Good	Yes No (None)	0807628

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0807628

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: 08/14/08
Date Completed: 8/13/08
Date Received: 7/31/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 584.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS 5 DW	Modified TO-15	7/30/2008	9.5 "Hg	$225.00
02A	AMS 1 UW	Modified TO-15	7/30/2008	10.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges 6 Liter Summa Canister (100% Certified) (2) @ $65.00 each., Shipment 58 $130.00
Fuel Surcharge (2) @ $2.00 each. $4.00

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

BILL TO: Ms. 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

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	
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	
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	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
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	
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	

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

Media Certification Report

Canister Number: 6L#34018 w/10.2ml+T
Can#: 58431-34018
Date : 06/26/08 18:56
Data File: x062614.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		106.00	% Recovery
Toluene-d8	2037-26-5		99.00	% Recovery
4-Bromofluorobenzene	460-00-4		101.00	% Recovery

Air Toxics LTD.

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

Media Certification Report

Canister Number: 6L#5600 w/10.2ml+T
Can#: 58431-5600
Date : 06/26/08 19:27
Data File: x062615.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		106.00	% Recovery
Toluene-d8	2037-26-5		98.00	% Recovery
4-Bromofluorobenzene	460-00-4		106.00	% Recovery

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0807628

A_1	A_2	R/T	M/Q	Item
☑	☐	☑ ☐	☑ ☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑ ☐	☑ ☐	The final report has the correct reporting list, special units, and header info.
		☑ ☐	☑ ☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☐	NA ☐	☑ ☐	Corrective Action issued - #
☑	☐	☑ ☐	☑ ☐	Unusual circumstances have been documented in the notes section below

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

A_1	A_2	R	T	M	Q	Item
☑	☐	☐	☐	☐	☐	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

A_1	A_2	R	T	M	Q	Item
☑	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		NA	☐			TICs resemble reference spectra
		☐	☐			TICs between duplicate samples are consistent
NA	☐	☐	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
NA	☐	☐	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☐		☐		Special units for all samples in the final report are correctly calculated
		☐	☐	☐		Manually entered results checked (i.e. TPH/NMOC)
☑	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☑	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☑	☐	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☐	☑				Verify receipt pressures
☑	☐	☑				Verify canister ID #'s
		NA		☑		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: ~~0 out in CCV~~ 1 out in CCV (alpha-chloro T) & 0 out in LCS

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: [signature] 8/12/08	R: [signature] 8-13-08	[signature] 8/13/08	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 07/28/08

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable