
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 #: 0707163

	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	25
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)	26	33
b. Surrogate Recover Summary Form (If Applicable)	34	34
c. Internal Standard Summary Form (If Applicable)	35	35
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	36	165
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	166	180
i. Second Source LCS(Summary + Raw Data)	181	194
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	195	196
l. GC/MS Tune (Results + Raw Data)	197	206
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	207	208
b. Chain-of-Custody Records	209	209
c. Sample Log-In Sheet	210	210
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	211	213
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	214	215
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	216	216

Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	7/26/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0707163

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	07/10/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	07/23/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	UW-AMS1-070607	Modified TO-15	10.5 "Hg
02A	DW-AMS4-070607	Modified TO-15	11.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 07/23/07

Laboratory Director

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

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

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0707163

Two 6 Liter Summa Canister samples were received on July 10, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW-AMS1-070607	0707163-01A	7/ 6/2007	7/10/2007	NA	11	7/17/2007	NA	Good
DW-AMS4-070607	0707163-02A	7/ 6/2007	7/10/2007	NA	11	7/17/2007	NA	Good
Lab Blank	0707163-03A	NA	NA	NA	NA	7/17/2007	NA	Good
CCV	0707163-04A	NA	NA	NA	NA	7/17/2007	NA	Good
LCS	0707163-05A	NA	NA	NA	NA	7/17/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW-AMS1-070607

Lab ID#: 0707163-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.1	17	9.8	41
2-Butanone (Methyl Ethyl Ketone)	1.0	2.7	3.0	7.9

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS1-070607

Lab ID#: 0707163-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071713**	**Date of Collection: 7/6/07**	
Dil. Factor:	**2.06**	**Date of Analysis: 7/17/07 06:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Bromomethane	1.0	Not Detected	4.0	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Freon 113	1.0	Not Detected	7.9	Not Detected
Methylene Chloride	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS1-070607

Lab ID#: 0707163-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071713**	**Date of Collection: 7/6/07**	
Dil. Factor:	**2.06**	**Date of Analysis: 7/17/07 06:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.0	Not Detected	4.2	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
Chloromethane	4.1	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected
Acetone	4.1	17	9.8	41
Carbon Disulfide	1.0	Not Detected	3.2	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	2.7	3.0	7.9
Tetrahydrofuran	1.0	Not Detected U J	3.0	Not Detected U J
1,4-Dioxane	4.1	Not Detected	15	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
Ethanol	4.1	Not Detected	7.8	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Naphthalene	4.1	Not Detected	22	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071713.d
Lab Smp Id: 0707163-01A
Inj Date : 17-JUL-2007 18:28
Operator : srs Inst ID: msd5.i
Smp Info : 200ml #4242
Misc Info : 10.5"Hg -> 5psi GEI Consultants, Inc
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 16:01 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 14:31 Cal File: 5071708.d
Als bottle: 1
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.187 (1.000)	130	215890	25.0000		80.00- 120.00	100.00
8.214	8.187 (1.000)	128	162776			45.26- 105.26	75.40
8.214	8.187 (1.000)	49	467117			176.99- 236.99	216.37
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	753889	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	133665			0.00- 46.60	17.73
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	601054	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	376375			0.00- 30.00	62.62
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	410335	23.3468	23.347	80.00- 120.00	100.00
9.265	9.265 (1.128)	67	167314			28.18- 88.18	40.77
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	618085	23.5561	23.556	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	71512			0.00- 41.76	11.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	397977			41.06- 101.06	64.39
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	389670	23.8134	23.813	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	594995			127.53- 187.53	152.69
16.675	16.675 (1.104)	176	376359			72.13- 132.13	96.58
32 Acetone					CAS #: 67-64-1		
4.869	4.841 (0.593)	58	99422	8.32768	17.155	80.00- 120.00	100.00
4.869	4.841 (0.593)	43	362431			345.94- 405.94	364.54
67 2-Butanone					CAS #: 78-93-3		
7.827	7.800 (0.953)	72	9306	1.29662	2.671	80.00- 120.00	100.00
7.827	7.800 (0.953)	43	63269			699.13- 759.13	679.87
7.855	7.800 (0.956)	57	3167			17.94- 77.94	34.03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071713.d
Lab Smp Id: 0707163-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 10.5"Hg -> 5psi GEI Consultants, Inc

Calibration Date: 17-JUL-2007
Calibration Time: 16:00
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	224693	134816	314570	215890	-3.92
92 1,4-Difluorobenze	775023	465014	1085032	753889	-2.73
125 Chlorobenzene-d5	629827	377896	881758	601054	-4.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-17jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0707163-01A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 10.5"Hg -> 5psi GEI Consultants, Inc

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.347	93.39	70-130
$ 107 Toluene-d8	25.000	23.556	94.22	70-130
$ 138 Bromofluorobenzene	25.000	23.813	95.25	70-130

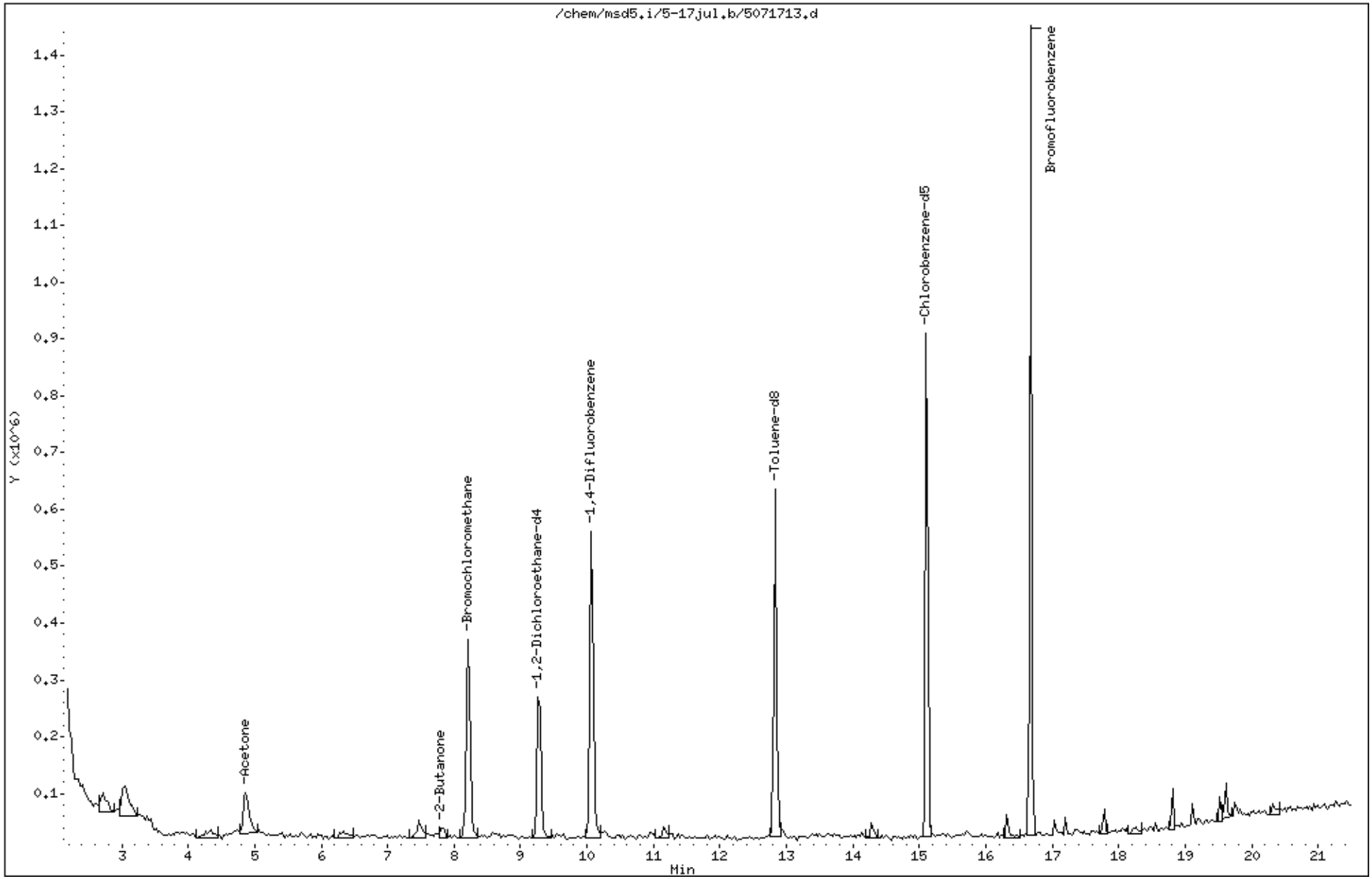
0013

Data File: /chem/msd5.i/5-17jul.b/5071713.d
Date : 17-JUL-2007 18:28
Client ID:
Sample Info: 200ml #4242

Column phase: RTx-624

Instrument: msd5.i

Operator: srs
Column diameter: 0.53



Data File: /chem/msd5.i/5-17jul.b/5071713.d

Date : 17-JUL-2007 18:28

Client ID:

Instrument: msd5.i

Sample Info: 200ml #4242

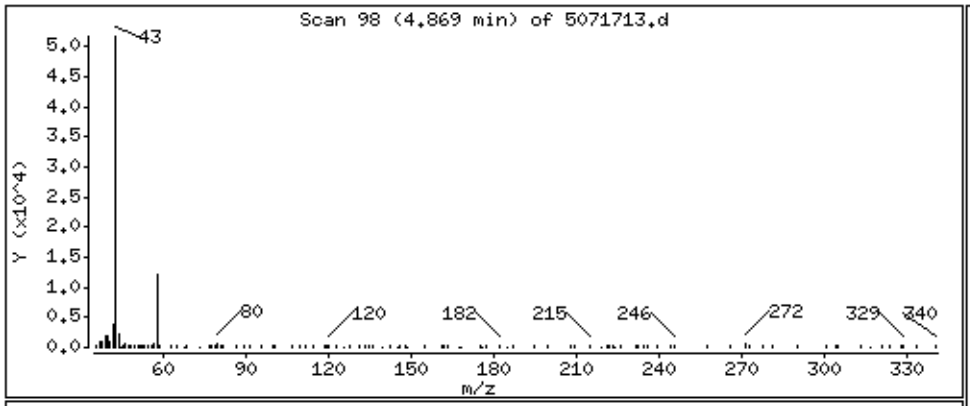
Operator: srs

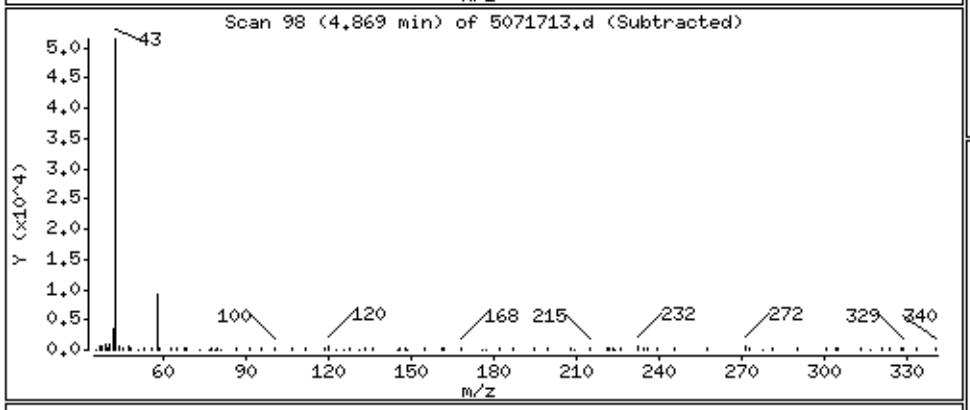
Column phase: RTx-624

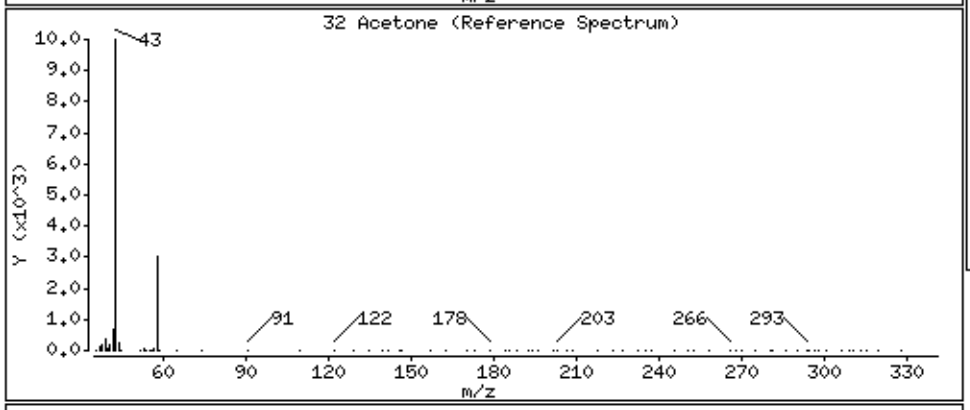
Column diameter: 0.53

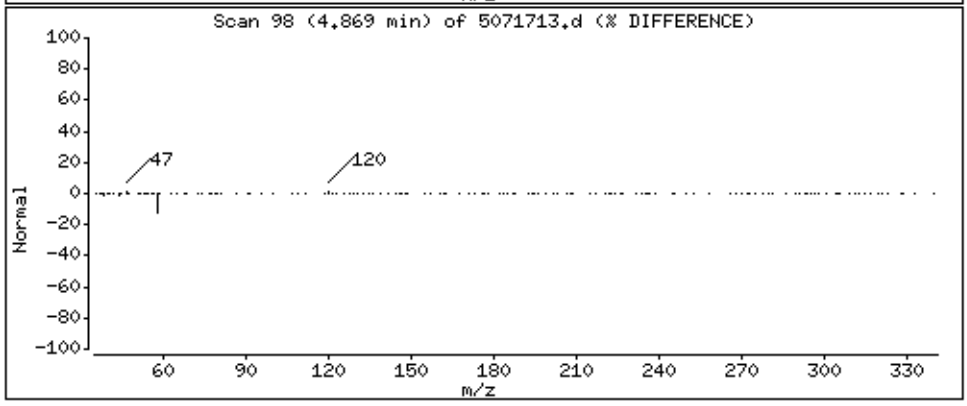
32 Acetone

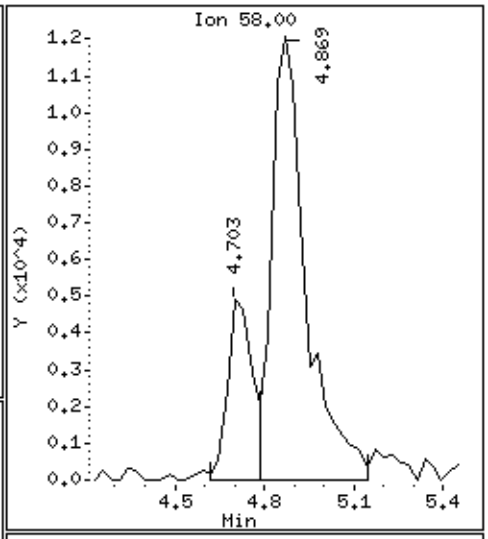
Concentration: 17.155 PPBV

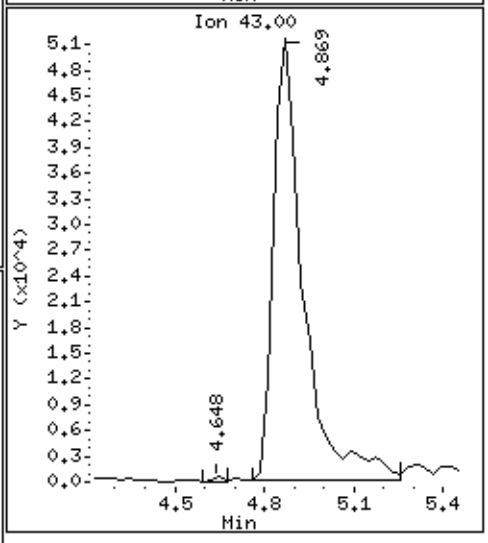












Data File: /chem/msd5.i/5-17jul.b/5071713.d

Date : 17-JUL-2007 18:28

Client ID:

Instrument: msd5.i

Sample Info: 200ml #4242

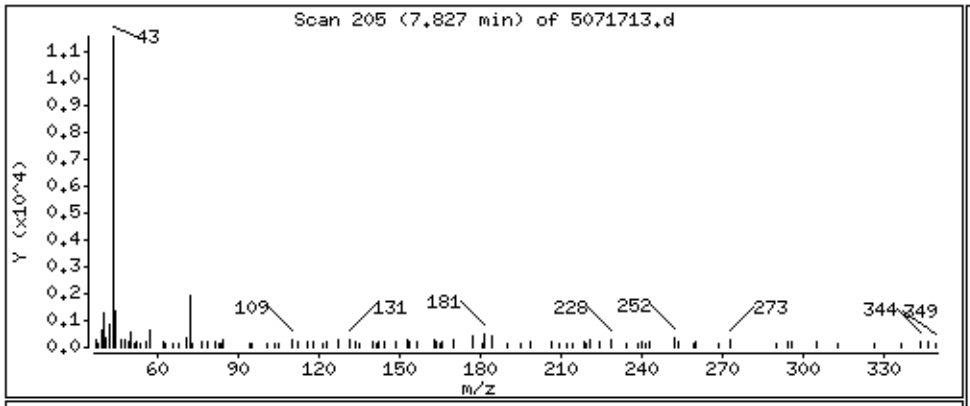
Operator: srs

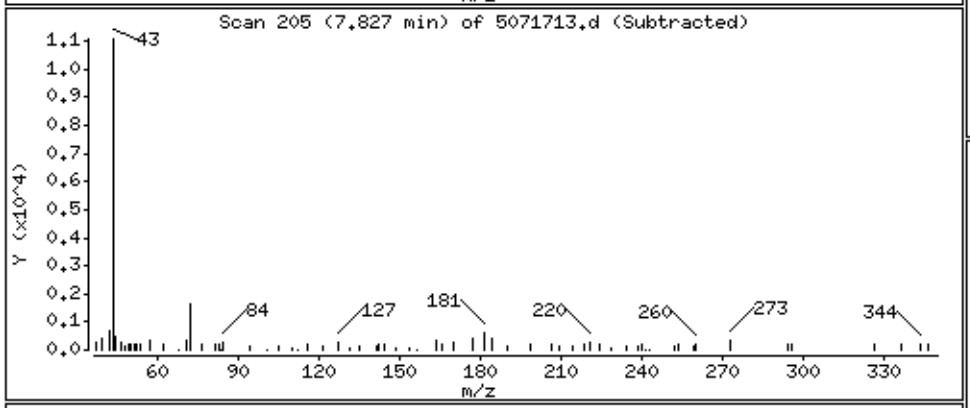
Column phase: RTx-624

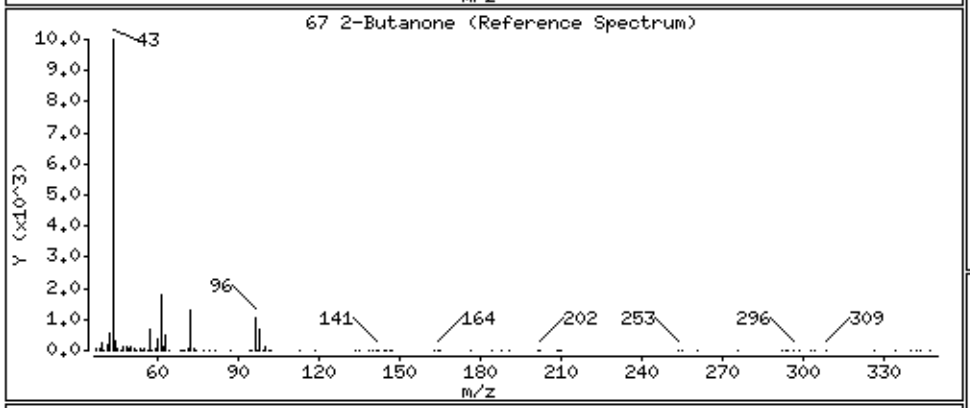
Column diameter: 0.53

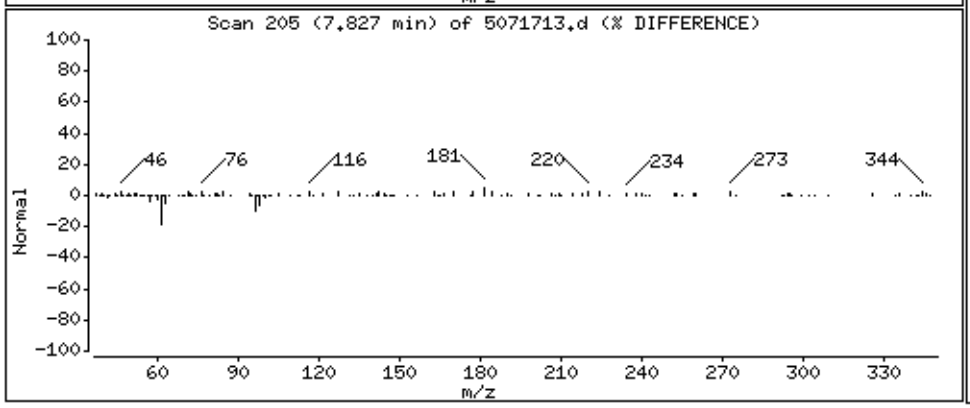
67 2-Butanone

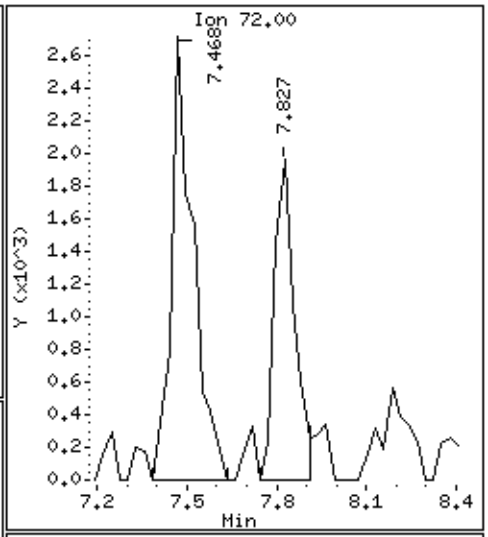
Concentration: 2.671 PPBV

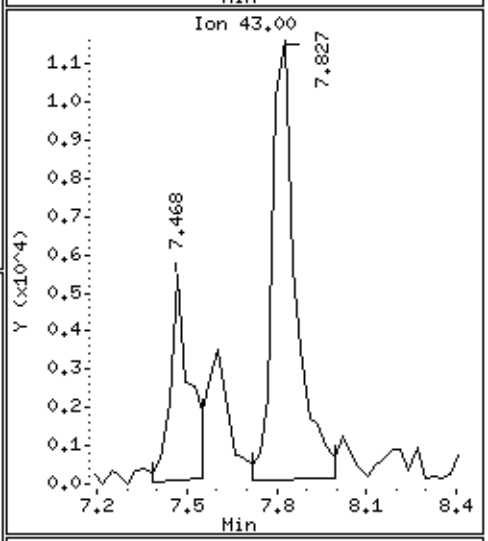


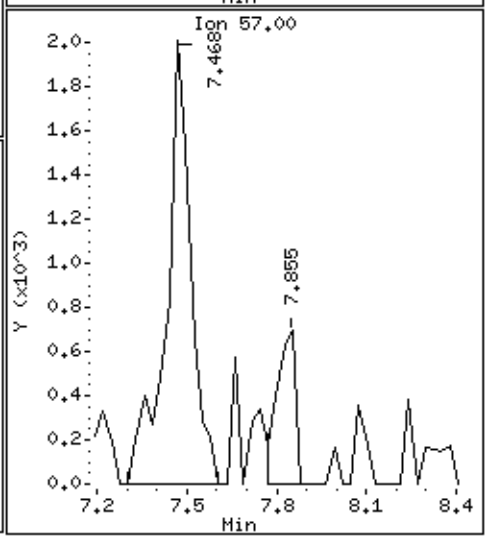












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW-AMS4-070607

Lab ID#: 0707163-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.2	16	10	38
2-Butanone (Methyl Ethyl Ketone)	1.1	3.0	3.1	9.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS4-070607

Lab ID#: 0707163-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071714**	**Date of Collection: 7/6/07**	
Dil. Factor:	**2.12**	**Date of Analysis: 7/17/07 07:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.2	Not Detected
Freon 114	1.1	Not Detected	7.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
Bromomethane	1.1	Not Detected	4.1	Not Detected
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Freon 113	1.1	Not Detected	8.1	Not Detected
Methylene Chloride	1.1	Not Detected	3.7	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	Not Detected	5.7	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
Toluene	1.1	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	Not Detected	7.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.1	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected
Styrene	1.1	Not Detected	4.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,3-Butadiene	1.1	Not Detected	2.3	Not Detected
Hexane	1.1	Not Detected	3.7	Not Detected
Cyclohexane	1.1	Not Detected	3.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS4-070607

Lab ID#: 0707163-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071714**	**Date of Collection: 7/6/07**	
Dil. Factor:	**2.12**	**Date of Analysis: 7/17/07 07:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.1	Not Detected	4.3	Not Detected
Bromodichloromethane	1.1	Not Detected	7.1	Not Detected
Dibromochloromethane	1.1	Not Detected	9.0	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
Propylbenzene	1.1	Not Detected	5.2	Not Detected
Chloromethane	4.2	Not Detected	8.8	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected
Acetone	4.2	16	10	38
Carbon Disulfide	1.1	Not Detected	3.3	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	3.0	3.1	9.0
Tetrahydrofuran	1.1	Not Detected U J	3.1	Not Detected U J
1,4-Dioxane	4.2	Not Detected	15	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.3	Not Detected
2-Hexanone	4.2	Not Detected	17	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.2	Not Detected
Ethanol	4.2	Not Detected	8.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.8	Not Detected
3-Chloropropene	4.2	Not Detected	13	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Naphthalene	4.2	Not Detected	22	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071714.d
Lab Smp Id: 0707163-02A
Inj Date : 17-JUL-2007 19:01
Operator : srs Inst ID: msd5.i
Smp Info : 200ml #4218
Misc Info : 11.0"Hg -> 5psi GEI Consultants, Inc
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 16:01 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 14:31 Cal File: 5071708.d
Als bottle: 1
Dil Factor: 2.12000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.187 (1.000)	130	202811	25.0000		80.00- 120.00	100.00
8.214	8.187 (1.000)	128	162480			45.26- 105.26	80.11
8.214	8.187 (1.000)	49	435472			176.99- 236.99	214.72
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	729452	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	121226			0.00- 46.60	16.62
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	579526	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	367607			0.00- 30.00	63.43
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	411136	24.9009	24.901	80.00- 120.00	100.00
9.293	9.265 (1.131)	67	161921			28.18- 88.18	39.38
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	610427	24.0436	24.044	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	71801			0.00- 41.76	11.76

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	387145			41.06- 101.06	63.42
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	388848	24.6459	24.646	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	603248			127.53- 187.53	155.14
16.675	16.675 (1.104)	176	364829			72.13- 132.13	93.82
32 Acetone					CAS #: 67-64-1		
4.869	4.841 (0.593)	58	83882	7.47913	15.856	80.00- 120.00	100.00
4.869	4.841 (0.593)	43	334654			345.94- 405.94	398.96
67 2-Butanone					CAS #: 78-93-3		
7.827	7.800 (0.953)	72	9685	1.43645	3.045	80.00- 120.00	100.00
7.827	7.800 (0.953)	43	67863			699.13- 759.13	700.70
7.800	7.800 (0.950)	57	5025			17.94- 77.94	51.88

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071714.d
Lab Smp Id: 0707163-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 11.0"Hg -> 5psi GEI Consultants, Inc

Calibration Date: 17-JUL-2007
Calibration Time: 16:00
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	224693	134816	314570	202811	-9.74
92 1,4-Difluorobenze	775023	465014	1085032	729452	-5.88
125 Chlorobenzene-d5	629827	377896	881758	579526	-7.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-17jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0707163-02A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 11.0"Hg -> 5psi GEI Consultants, Inc

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.901	99.60	70-130
$ 107 Toluene-d8	25.000	24.044	96.17	70-130
$ 138 Bromofluorobenzene	25.000	24.646	98.58	70-130

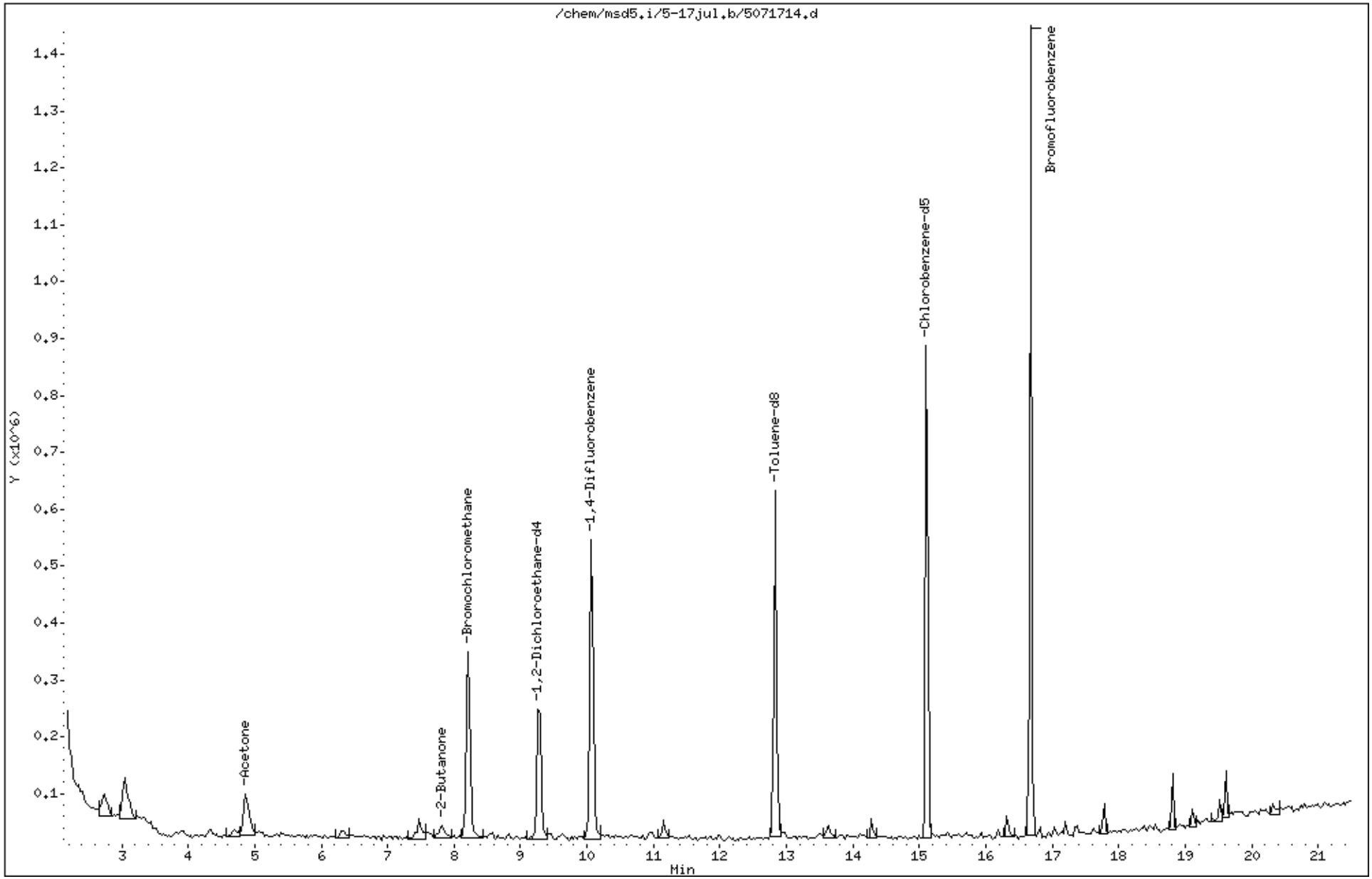
0023

Data File: /chem/msd5.i/5-17jul.b/5071714.d
Date : 17-JUL-2007 19:01
Client ID:
Sample Info: 200ml #4218

Instrument: msd5.i

Operator: srs
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-17jul.b/5071714.d

Date : 17-JUL-2007 19:01

Client ID:

Instrument: msd5.i

Sample Info: 200ml #4218

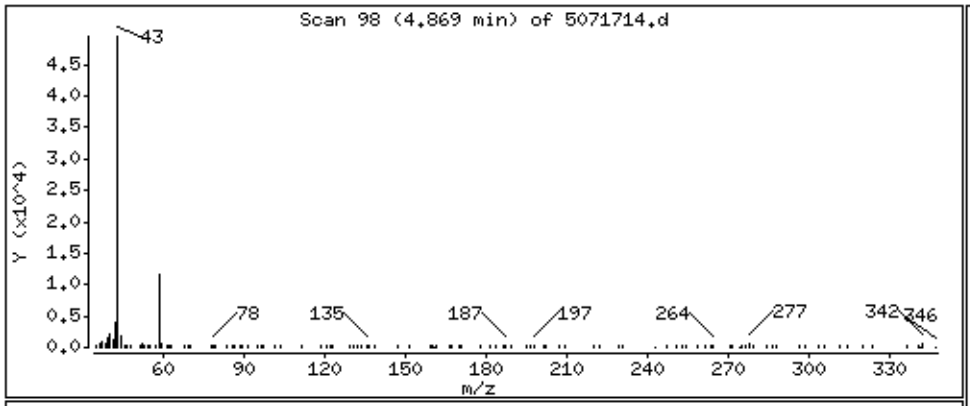
Operator: srs

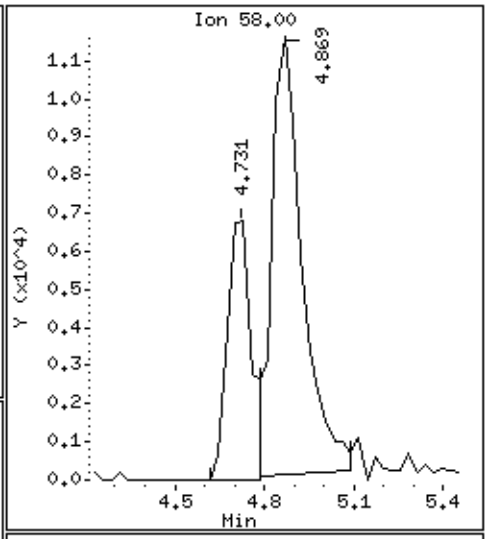
Column phase: RTx-624

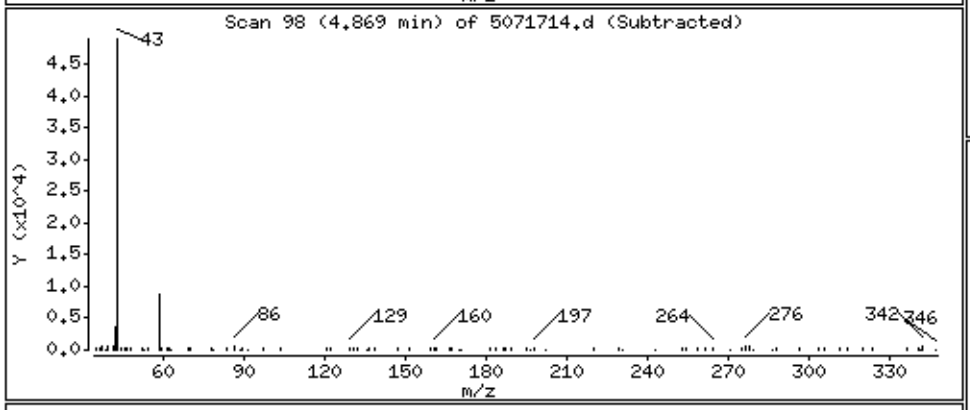
Column diameter: 0.53

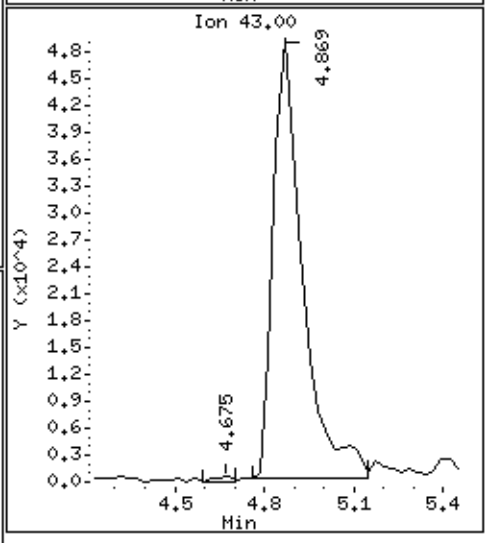
32 Acetone

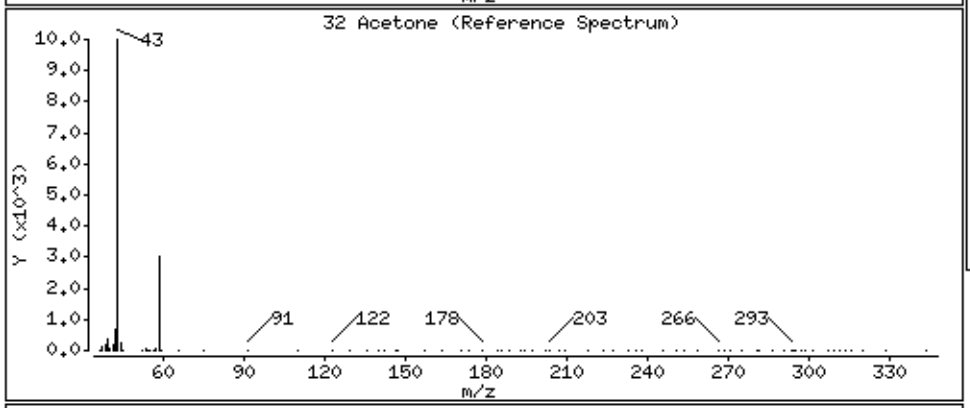
Concentration: 15.856 PPBV

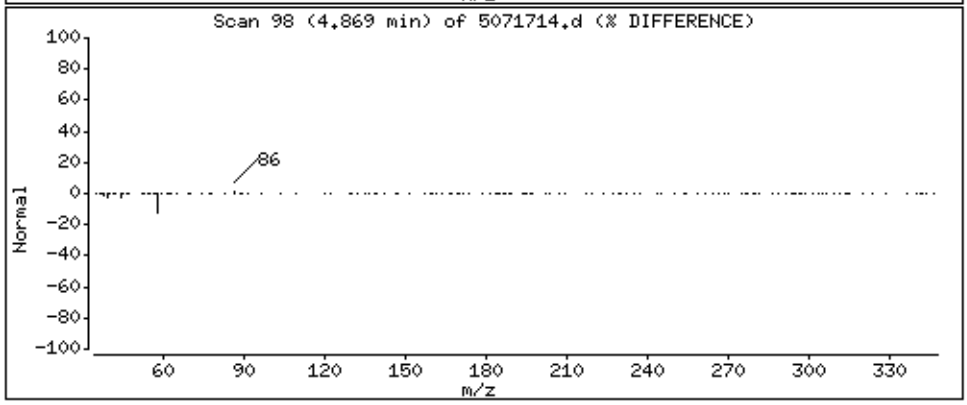












Data File: /chem/msd5.i/5-17jul.b/5071714.d

Date : 17-JUL-2007 19:01

Client ID:

Instrument: msd5.i

Sample Info: 200ml #4218

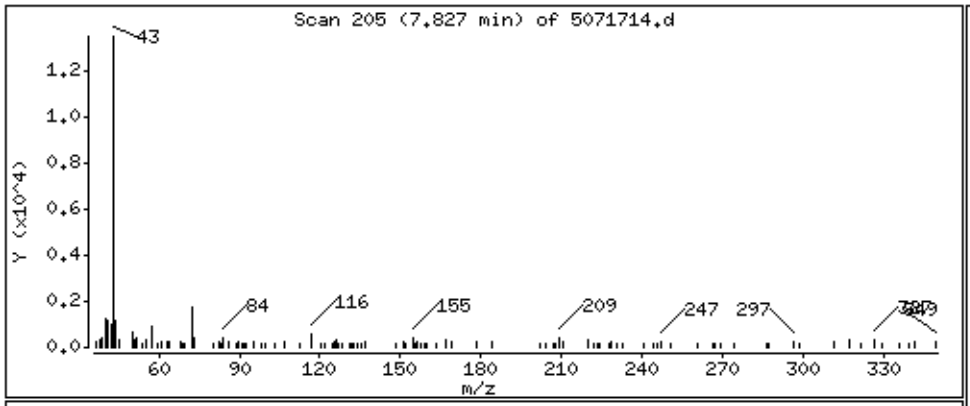
Operator: srs

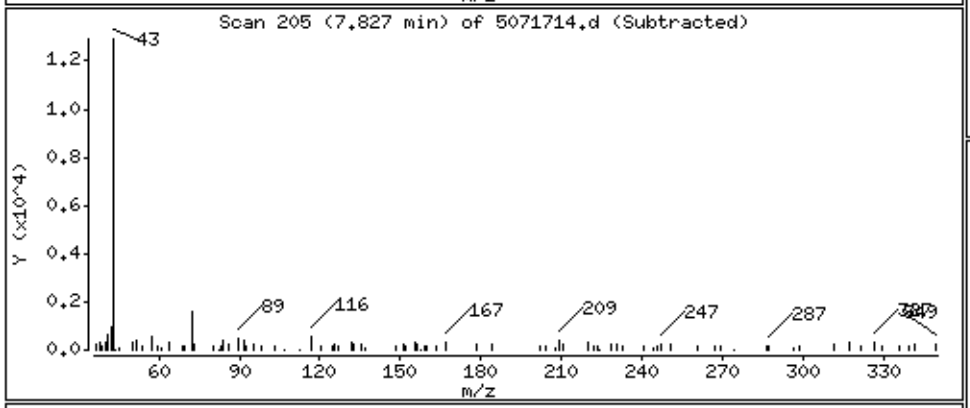
Column phase: RTx-624

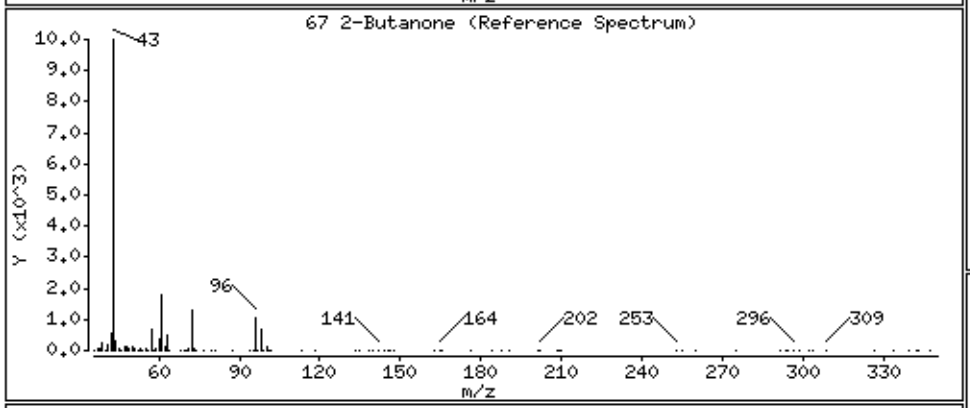
Column diameter: 0.53

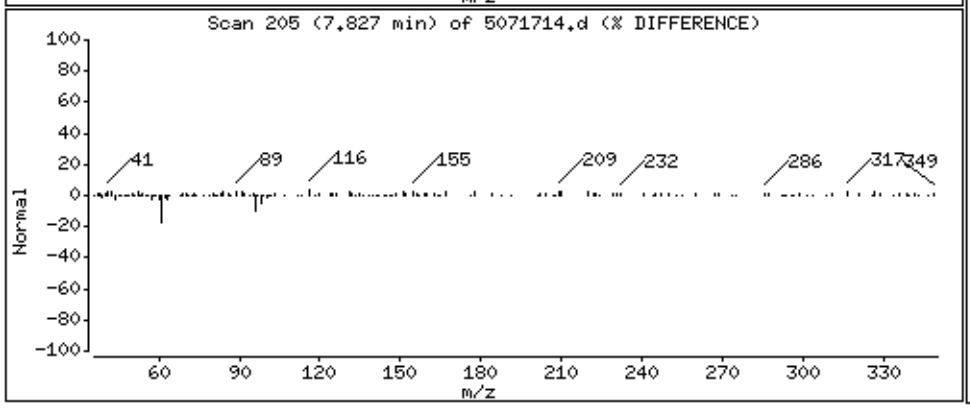
67 2-Butanone

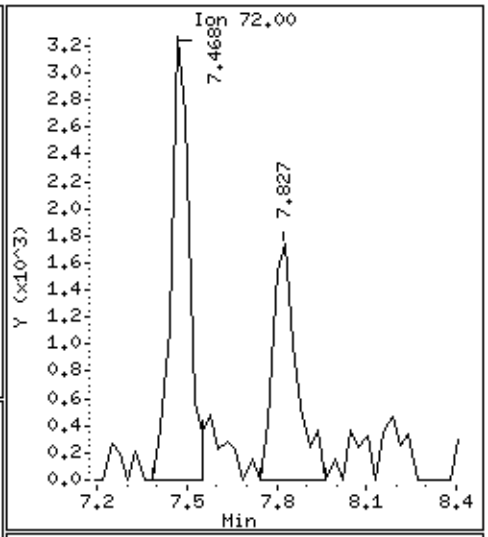
Concentration: 3.045 PPBV

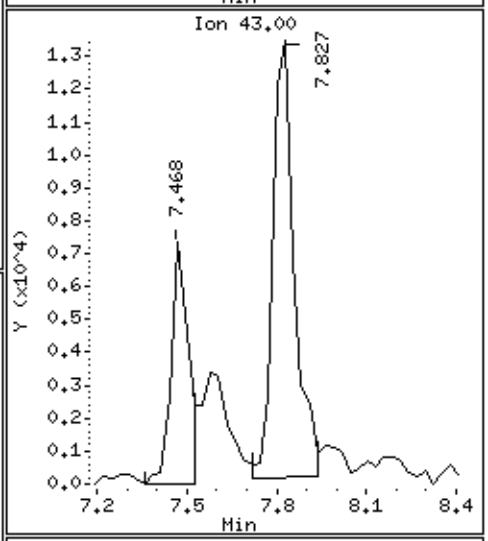


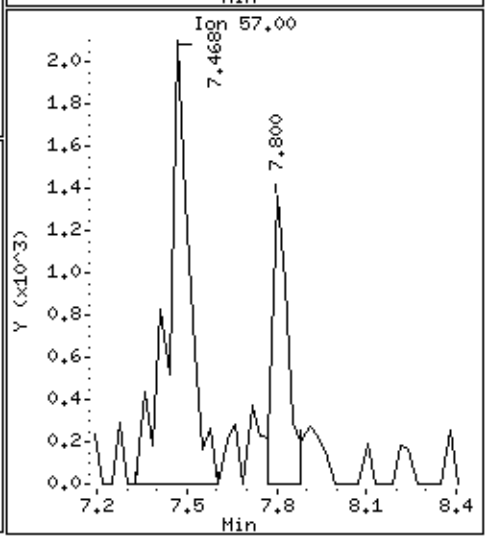












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0707163-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071712**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/07 05:33 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0707163-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071712**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/07 05:33 PM**	

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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071712.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 17-JUL-2007 17:33
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #13673
Misc Info : Humid
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 17-Jul-2007 17:44 lrandolp Quant Type: ISTD
Cal Date : 17-JUL-2007 13:31 Cal File: 5071706.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.187 (1.000)	130	208246	25.0000		80.00- 120.00	100.00
8.214	8.187 (1.000)	128	169983			45.26- 105.26	81.63
8.214	8.187 (1.000)	49	464095			176.99- 236.99	222.86
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	798158	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	132768			0.00- 46.60	16.63
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	607481	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	381551			0.00- 30.00	62.81
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	413220	24.3739	24.374	80.00- 120.00	100.00
9.265	9.265 (1.128)	67	174052			28.18- 88.18	42.12
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	663327	23.8782	23.878	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	79739			0.00- 41.76	12.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	425646			41.06- 101.06	64.17
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	392104	23.7086	23.708	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	629033			127.53- 187.53	160.43
16.675	16.675 (1.104)	176	372881			72.13- 132.13	95.10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071712.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: Humid

Calibration Date: 17-JUL-2007
Calibration Time: 16:00
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	224693	134816	314570	208246	-7.32
92 1,4-Difluorobenze	775023	465014	1085032	798158	2.99
125 Chlorobenzene-d5	629827	377896	881758	607481	-3.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Report Date: 17-Jul-2007 17:45

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-17jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.374	97.50	70-130
$ 107 Toluene-d8	25.000	23.878	95.51	70-130
$ 138 Bromofluorobenzene	25.000	23.708	94.83	70-130

Data File: /chem/msd5.i/5-17jul.b/5071712.d

Date : 17-JUL-2007 17:33

Client ID: Lab Blank

Sample Info: 200ml #13673

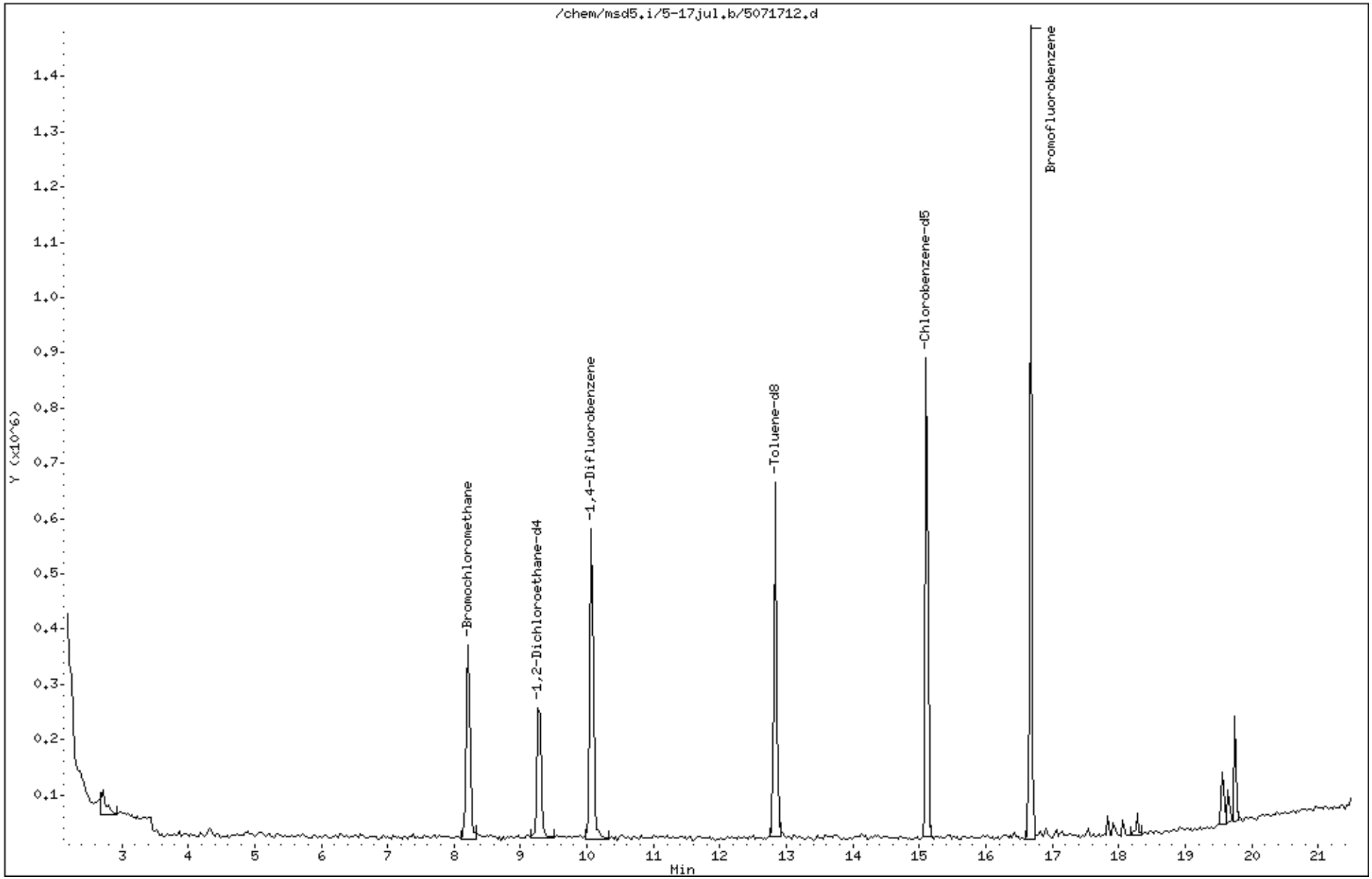
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0033



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0707163

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW-AMS1-070607	93		94		95				0
02	DW-AMS4-070607	100		96		98				0
03	Lab Blank	97		96		95				0
04	CCV	94		101		97				0
05	LCS	103		98		100				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: 0707163

Lab File ID: 5071710.d | Date Analyzed: 07/17/2007

Instrument ID: msd5.i | Time Analyzed: 04:00 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	629827		15.1		775023		10.07		224693		8.19	
	UPPER LIMIT	881758		15.43		1085032		10.40		314570		08.52	
	LOWER LIMIT	377896		14.77		465014		09.74		134816		07.86	
	CLIENT SAMPLE NO												
01	UW-AMS1-070607	601054		15.1		753889		10.07		215890		8.21	
02	DW-AMS4-070607	579526		15.1		729452		10.07		202811		8.21	
03	Lab Blank	607481		15.1		798158		10.07		208246		8.21	
04	CCV	629827		15.1		775023		10.07		224693		8.19	
05	LCS	672787		15.1		840844		10.07		216277		8.19	
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 : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-10jul.b/5071005.d
Level 2: /chem/msd5.i/5-10jul.b/5071006.d
Level 3: /chem/msd5.i/5-17jul.b/5071706.d
Level 4: /chem/msd5.i/5-10jul.b/5071008.d
Level 5: /chem/msd5.i/5-17jul.b/5071707.d
Level 6: /chem/msd5.i/5-10jul.b/5071010.d
Level 7: /chem/msd5.i/5-17jul.b/5071708.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	RRF	% RSD
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	2.73556	+++++	2.60853	+++++	2.55817	2.63409	3.470
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	4.30085	4.96271	4.42004	4.05902	3.61976	4.27247	11.530
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	7.48311	8.53239	8.17205	7.43899	6.57949	6.60474	7.46846	10.652
9 Freon 114	+++++	6.80531	6.71221	7.40133	6.66980	6.10535	5.40229	6.51605	10.496
10 Chloromethane	+++++	+++++	4.55160	5.67144	5.00463	4.60359	3.86940	4.74013	13.953
11 Butane	+++++	+++++	1.10561	1.18009	1.08079	0.97805	0.85160	1.03923	12.259
12 1,3-Butadiene	+++++	3.98388	3.75564	4.39150	3.79609	3.50664	3.14626	3.76333	11.217
13 Vinyl Chloride	+++++	4.24957	4.09020	4.51770	4.02748	3.62835	3.30143	3.96912	11.037
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	2.10329	2.47118	2.76717	2.52669	2.42918	2.12598	2.40391	10.521
16 Dichlorofluoromethane/Fr21	+++++	+++++	4.28779	+++++	4.84932	+++++	4.70415	4.61375	6.318
17 Isopentane	+++++	+++++	5.58680	6.35124	5.74822	5.36367	4.96333	5.60265	9.135

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Pentane	*****	*****	*****	*****	*****	*****	*****	*****	*****
19 Chloroethane	*****	2.37824	2.22711	2.16927	1.93115	1.70572	1.60575	2.00287	15.308
20 Trichlorofluoromethane/Fr11	*****	6.96032	6.71767	7.03306	6.44029	6.02103	5.62215	6.46575	8.583
21 Dimethyl Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
22 Freon123a	*****	*****	2.27124	*****	2.81113	*****	2.59394	2.55877	10.617
23 Freon 13	*****	*****	*****	*****	*****	*****	*****	*****	*****
24 Freon123	*****	*****	3.27858	*****	4.26718	*****	4.20543	3.91706	14.138
25 Acrolein	*****	*****	*****	*****	*****	*****	*****	*****	*****
26 Ethanol	*****	*****	1.31397	1.38754	1.30728	1.23468	1.19887	1.28847	5.722
27 Isobutylene	*****	*****	*****	*****	*****	*****	*****	*****	*****

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Freon 113	+++++	3.19363	3.72210	4.00031	3.56203	3.31157		
	3.13040						3.48667	9.670
31 1,1-Dichloroethene	+++++	4.38870	4.58859	4.74054	4.27432	4.10565		
	3.85224						4.32501	7.459
32 Acetone	+++++	+++++	1.25443	1.50730	1.41393	1.39925		
	1.33760						1.38250	6.791
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Carbon Disulfide	+++++	6.20888	6.29930	7.02873	6.51359	6.11975		
	5.79770						6.32799	6.573
36 2-Propanol	+++++	+++++	6.09595	6.32033	5.95149	5.81423		
	5.61329						5.95906	4.517
37 tert-Butyl-Alcohol	+++++	+++++	4.32881	+++++	3.16812	+++++		
	1.90268						3.13320	38.728

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 3-Chloropropene	+++++	+++++	1.02485	1.11739	1.07106	1.00163	0.96615	1.03622	5.717
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	3.69150	3.81080	4.01892	3.58590	3.47452	3.24108	3.63712	7.426
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	4.12345	3.45007	4.87633	4.17903	3.45960	2.78608	3.81243	19.176
47 trans-1,2-Dichloroethene	+++++	2.59808	2.19437	2.42812	2.27485	2.16828	2.04411	2.28463	8.721

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	9.78691	+++++	11.21556	+++++	11.41377	10.80541	8.214
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	5.25855	4.32070	5.09625	4.68890	4.49556	4.24886	4.68480	8.837
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	4.06833	4.27658	4.49049	4.09187	3.91063	3.72385	4.09362	6.571
56 Vinyl Acetate	+++++	+++++	0.48740	0.55910	0.52562	0.54119	0.51302	0.52527	5.198
57 Ethyl-tert-butyl Ether	+++++	+++++	6.70671	+++++	8.29731	+++++	8.22196	7.74199	11.591

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	1.57913	+++++	2.90646	+++++	2.56540	2.35033	29.328
61 Ethyl Acetate	+++++	+++++	0.31362	+++++	0.46831	+++++	0.48416	0.42203	22.324
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	2.61461	2.81092	3.25122	3.13325	2.98586	2.81365	2.93492	7.986
67 2-Butanone	+++++	1.05153	0.62184	0.87598	0.80709	0.81556	0.81464	0.83111	16.628

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	5.40364	3.93321	3.64831	3.45477	3.38694	3.16376	3.83177	21.205
72 Chloroform	3.62246	3.51820	3.33818	3.82299	3.51238	3.38141	3.20905	3.48638	5.777
73 1,1-Dichloropropene	+++++	+++++	0.79513	+++++	0.76970	+++++	0.78213	0.78232	1.626
74 Cyclohexane	+++++	2.28145	2.09043	2.44318	2.25415	2.20316	2.03502	2.21790	6.565
75 1,1,1-Trichloroethane	+++++	3.66923	4.15399	4.32819	4.07393	3.92560	3.67644	3.97123	6.677
76 Isobutanol	+++++	+++++	0.49122	+++++	0.69278	+++++	0.68271	0.62223	18.253
77 Carbon Tetrachloride	+++++	4.28551	3.48706	4.35394	4.03310	3.89207	3.64787	3.94992	8.708
78 tert-amyl-Methyl Ether	+++++	+++++	3.73440	+++++	4.81155	+++++	5.07652	4.54082	15.654

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 2,2,4-Trimethylpentane	+++++	10.32704	10.47981	11.50793	10.76964	10.46112		
	9.77343						10.55316	5.413
81 Benzene	1.24310	1.32199	0.99183	1.19634	1.15734	1.07040		
	1.00983						1.14154	10.785
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,2-Dichloroethane	+++++	0.84907	0.84254	0.95267	0.90934	0.83943		
	0.81006						0.86718	6.114
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Heptane	+++++	0.14960	0.19438	0.16582	0.15285	0.14022	0.13691	0.15663	13.487
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Trichloroethene	+++++	0.65085	0.54866	0.55418	0.50712	0.47602	0.45693	0.53230	13.092
94 Methyl Cyclohexane	+++++	0.49325	0.57159	0.67834	0.65957	0.62608	0.60939	0.60637	11.041
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.48922	0.39823	0.45401	0.41849	0.38724	0.38784	0.42250	9.756
99 1,4-Dioxane	+++++	+++++	0.28451	0.23486	0.24850	0.23373	0.23039	0.24640	9.091
100 Bromodichloromethane	+++++	0.84699	0.81725	0.90360	0.87294	0.81607	0.79705	0.84232	4.773

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.57798	0.49389	0.57138	0.55771	0.53030	0.52318	0.54241	5.951
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.31502	0.40267	0.41569	0.40804	0.38752	0.38841	0.38623	9.471
108 Toluene	+++++	1.26601	1.09124	1.18943	1.15895	1.09488	1.08738	1.14798	6.219
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.83703	0.72845	0.81144	0.78573	0.80342		
	0.78511						0.79187	4.609
114 1,1,2-Trichloroethane	+++++	0.45466	0.39429	0.48064	0.48861	0.46213		
	0.44670						0.45450	7.357
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 Tetrachloroethene	+++++	0.57561	0.65609	0.68759	0.65129	0.62610		
	0.59718						0.63231	6.509
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
118 Butyl Acetate	+++++	+++++	0.50853	+++++	0.65363	+++++		
	0.60940						0.59052	12.594
119 2-Hexanone	+++++	+++++	0.55927	0.67980	0.66486	0.66843		
	0.66894						0.64826	7.722
120 Dibromochloromethane	+++++	0.88103	0.79909	1.03997	0.97868	0.96702		
	0.95129						0.93618	9.012
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 1,2-Dibromoethane	+++++	0.75685	0.68460	0.85029	0.81660	0.79588	0.78607	0.78171	7.279
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.54989	+++++	0.67794	+++++	0.65303	0.62695	10.828
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	1.16485	1.12846	1.25806	1.19977	1.16207	1.13041	1.17394	4.161
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl Benzene	+++++	0.62190	0.63133	0.68545	0.66422	0.65563	0.61685	0.64590	4.170
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.77056	0.82016	0.85977	0.83638	0.81184	0.77595	0.81244	4.249
131 2-Heptanone	+++++	+++++	0.82380	+++++	1.21030	+++++	1.16646	1.06686	19.837
132 o-Xylene	+++++	0.84844	0.69754	0.77089	0.76267	0.74415	0.72928	0.75883	6.729

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Styrene	1.42162	1.06228	1.13323	1.29332	1.26822	1.28909	1.25797	1.24653	9.381
134 Bromoform	+++++	0.59922	0.75330	0.89984	0.89427	0.88618	0.85168	0.81408	14.561
135 Cyclohexanone	+++++	+++++	0.93543	+++++	1.06069	+++++	1.07166	1.02259	7.401
136 Cumene	2.87773	2.10510	2.43643	2.65024	2.62607	2.58366	2.45289	2.53316	9.434
137 Bromobenzene	+++++	+++++	0.67372	+++++	0.60256	+++++	0.60265	0.62631	6.555
139 1,2,3-Trichloropropane	+++++	+++++	0.34064	+++++	0.41183	+++++	0.39483	0.38243	9.721
140 2-Chlorotoluene	+++++	+++++	0.49966	+++++	0.52748	+++++	0.51071	0.51262	2.733
141 1,1,2,2-Tetrachloroethane	+++++	1.07125	1.09410	1.09272	1.04848	1.02420	0.96961	1.05006	4.538
142 Propylbenzene	+++++	2.48475	2.80129	3.14745	3.07334	2.96989	2.60781	2.84742	9.254
143 4-Chlorotoluene	+++++	+++++	0.48448	+++++	0.50374	+++++	0.48850	0.49224	2.064

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 4-Ethyltoluene	+++++	2.47979	2.91155	2.99077	2.96394	2.86448	2.46781	2.77973	8.668
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	2.55590	+++++	2.72320	+++++	2.61850	2.63253	3.211
147 1,3,5-Trimethylbenzene	+++++	1.99528	2.40079	2.45557	2.51446	2.41125	2.34086	2.35303	7.845
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	1.72498	+++++	2.11056	+++++	2.06609	1.96721	10.723
150 Pentachloroethane	+++++	+++++	0.58134	+++++	0.65969	+++++	0.62811	0.62305	6.327
151 sec-Butylbenzene	+++++	+++++	2.45297	+++++	2.87386	+++++	2.80064	2.70916	8.300
152 1,2,4-Trimethylbenzene	+++++	2.52308	2.49609	2.85137	2.72334	2.63751	2.35902	2.59840	6.767
153 p-Cymene	+++++	+++++	0.74597	+++++	0.78902	+++++	0.72799	0.75432	4.158

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
154 1,2,3-Trimethylbenzene	+++++	+++++	0.77199	+++++	0.94746	+++++	0.88713	0.86886	10.261
155 1,3-Dichlorobenzene	+++++	1.50222	1.69694	1.60612	1.59986	1.52398	1.40673	1.55597	6.459
156 1,4-Dichlorobenzene	+++++	1.33504	1.29929	1.32379	1.29375	1.26232	1.22011	1.28905	3.276
157 alpha-Chlorotoluene	+++++	1.66344	1.88256	2.20128	2.32963	2.35574	2.33524	2.12798	13.569
158 Butylbenzene	+++++	+++++	0.61091	+++++	0.72332	+++++	0.66502	0.66642	8.436
159 1,2-Dichlorobenzene	+++++	1.44515	1.73725	1.64240	1.60141	1.54609	1.42183	1.56569	7.675
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.59448	+++++	0.59622	+++++	0.63060	0.60710	3.356
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	1.53914	1.05313	1.16652	1.08712	1.04220	1.17762	17.652

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-17jul.b/t14q710b.m
Cal Date : 17-Jul-2007 14:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	1.23676	0.99075	0.99435	0.93779		
	0.88256						1.00844	13.440
165 Naphthalene	+++++	+++++	4.37046	3.14276	3.26783	3.24568		
	2.70577						3.34650	18.402
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.98022	2.04112	1.98225	2.04100	2.04028		
	2.12666						2.03526	2.626
$ 107 Toluene-d8	+++++	0.86968	0.87741	0.87782	0.86379	0.86041		
	0.87159						0.87012	0.811
$ 138 Bromofluorobenzene	+++++	0.65419	0.67690	0.67289	0.67021	0.69559		
	0.71392						0.68062	3.092

Calibration History

Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Start Cal Date: 10-JUL-2007 14:34
End Cal Date : 17-JUL-2007 14:31

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
10-JUL-2007 14:34	AFCEElow	/chem/msd5.i/5-10jul.b/5071005.d
Cal Level: 2 , Cal Amount: 0.50000		
10-JUL-2007 15:02	AT04Low+ENSR	/chem/msd5.i/5-10jul.b/5071006.d
Cal Level: 3 , Cal Amount: 2.00000		
17-JUL-2007 13:31	sp15b	/chem/msd5.i/5-17jul.b/5071706.d
17-JUL-2007 09:35	sp22b	/chem/msd5.i/5-17jul.b/5071702.d
10-JUL-2007 15:30	AT04MDL+ENSR	/chem/msd5.i/5-10jul.b/5071007.d
Cal Level: 4 , Cal Amount: 25.00000		
10-JUL-2007 15:58	AT04MDL+ENSR	/chem/msd5.i/5-10jul.b/5071008.d
Cal Level: 5 , Cal Amount: 50.00000		
17-JUL-2007 13:58	sp15b	/chem/msd5.i/5-17jul.b/5071707.d
17-JUL-2007 10:03	sp22b	/chem/msd5.i/5-17jul.b/5071703.d
10-JUL-2007 16:27	AT04MDL+ENSR	/chem/msd5.i/5-10jul.b/5071009.d
Cal Level: 6 , Cal Amount: 100.00000		
10-JUL-2007 16:55	AT04MDL+ENSR	/chem/msd5.i/5-10jul.b/5071010.d
Cal Level: 7 , Cal Amount: 200.00000		
17-JUL-2007 14:31	sp15b	/chem/msd5.i/5-17jul.b/5071708.d
17-JUL-2007 10:36	sp22b	/chem/msd5.i/5-17jul.b/5071704.d
10-JUL-2007 17:28	AT04MDL+ENSR	/chem/msd5.i/5-10jul.b/5071011.d

+------------------+----------------+--+

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000			
17-JUL-2007 16:00	AT04+ENSR	/chem/msd5.i/5-17jul.b/5071710.d
Ccal Level: 8 , Ccal Amount: 50.000			
17-JUL-2007 13:58	sp15CCVb	/chem/msd5.i/5-17jul.b/5071707a.d
Ccal Level: 8 , Ccal Amount: 50.000			
17-JUL-2007 10:03	sp22CCVb	/chem/msd5.i/5-17jul.b/5071703a.d

@ Air Toxics Ltd.

MSD-5

Logbook #: 1523

0055

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	35.41
75	30.0 – 60.0% of mass 95	59.15
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.37
173	Less than 2.0% of mass 174	(0.78)[1]
174	Greater than 50.0% of mass 95	64.79
175	5.0 – 9.0% of mass 174	(7.09)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.25)[1]
177	5.0 – 9.0% of mass 176	(6.24)[2]

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

BFB Injection Date: 7/10/07

BFB Injection Time: 1334

BFB File ID: 5071003

Tekmar Purge Flow: 2

Vacuum: 7/10/07

IS/S Std.#:	1487-311	Exp. Date: 9/18/07
BCM	234839	
1,4-DFB	894476	
CB-d5	750815	

Verified CCV IS vs ICAL mid-point (- 40%D) DL 7/10/07 (initials)

Verify 176/174 m/z Ratio: 476288 / 494848 · 100 = 96.25 %.

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 772643\ )}{(\ 894476\ )} \times \frac{(\ 25\ )}{(\ 0.87012\ )} =$ 24.818

File ID:	5071009
Compound:	TBI-d8
Initials:	DL

Reported Result 24.818

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	5071001	BFB Tune Check	843-2980	50ng	2.0ml	1.0	DB	7-10-07	1316	DB	40 ↑
2	X	5071002	↓	↓	↓	↓	↓	↓	↓	1325	DB	40 ↑
3	✓	03	↓	↓	↓	↓	↓	↓	↓	1334	DB	
4	X	04	System Blank	34190	–	200ml	1.0	↓	↓	1406	DB	
5	✓	05	ICAL Level 1	1443-151	0.3ppbv	0.3ml	↓	↓	↓	1434	DB	(200ppbv)
6	✓	06	↓ 2	↓	0.5ppbv	0.5ml	↓	↓	↓	1502	DB	T149710a
7	✓	07	↓ 3	↓	2.0ppbv	2.0ml	↓	↓	↓	1530	KR	
8	✓	08	↓ 4	↓	25ppbv	25ml	↓	↓	↓	1558	KR	
9	✓	09	↓ 5	↓	50ppbv	50ml	↓	↓	↓	1627	KR	

Signature

7/11/07
Date

10	✓	507 10.0	ICAL Level 6	1443-151	100 ppbv	100 mL	1.0	DB	7-10-07	1655	KR		
11	✓	11	↓ 7	↓	200 ppbv	200 mL	|	↓	|	1728	KR		
12	X	12	System Blank	34190	Humid	200 mL	|	KR	|	1826	KR		
13	X	13	LCS 1443-147	200 ppbv →	50 ppbv	50 mL	|	|	|	1853	KR		
14	X	14	System Blank	34190	Humid	200 mL	|	|	|	2111	KR		
15	X	15	|	|	|	|	|	|	|	2144	KR		
16	✓	16	LCS 1443-144	200 ppbv →	50 ppbv	50 mL	↓	↓	↓	2222	KR	ICAL LCS	
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													

0056

7/11/07

Comments:

Flow Meter: 200-7744, Exp- 7/28/07 Flow Controller: AA9203108

Actual: 25.3 mL/min Nominal: 22.4 mL/min

Signature

7/11/07
Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1523

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	39.77
75	30.0 – 60.0% of mass 95	58.76
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.20
173	Less than 2.0% of mass 174	(1.17)[1]
174	Greater than 50.0% of mass 95	52.22
175	5.0 – 9.0% of mass 174	(6.80)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.82)[1]
177	5.0 – 9.0% of mass 176	(6.88)[2]

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

BFB Injection Date: 7/17/07
BFB Injection Time: 0845
BFB File ID: 5071701
Tekmar Purge Flow:
Vacuum: LR 7/17/07

IS/S Std.#: 1487-311	Exp. Date: 9/18/07
BCM 224693	
1,4-DFB 775023	
CB-d5 629827	

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

Verify 176/174 m/z Ratio: ~~1020880/1051856 x100~~ LR 7/17/07
481920/492672 x100 = 97.82

NOAH Cart #: 7/ 15 **File #:** U071708 / 5071709

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 681240\ )}{(\ 775023\ )} \times \frac{(\ 25\ )}{(\ 0.87012\ )} = 25.255$

File ID:	5071710
Compound:	Tol-d8
Initials:	LR

Reported Result 25.255

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5071701	BFB Tune Check	843-2980	50ng	2µl	1.00	LR	7/17/07	0845	LR	Apex-1
2	✓	02	ICAL Level 3(20ppbv)	1487-341	20ppbv	2ml	↓	↓	↓	0935	LR	T1497106
3	✓	03	↓ 5 ↓	↓	50ppbv	50ml	↓	↓	↓	1003	LR	sp226CCV
4	✓	04	↓ 7 ↓	↓	200ppbv	200ml	↓	↓	↓	1036	LR	
5		~~05~~	~~ICAL Level 3(20ppbv)~~	~~1487-336~~	2ppbv	2ml						
6		06	5	↓	50ppbv	50ml						
7		~~07~~	↓ 7 ↓	↓	200ppbv	200ml	LR 7/17/07					
8	✗	05	System Blank	12941	humid	200ml	1.00	LR		1303	LR	
9	✓	06	ICAL Level 3(20ppbv)	1487-336	2ppbv	2ml	↓	↓	↓	1331	LR	T1497106

Signature

7/17/07
Date

0057

0058

10	✓	5071707	ICAL levels (200ppbv)	1457-3316	50ppbv	50ml	1.00	LR	7/17/07	1358	LR	SpISCCVb	
11	✓	08	↓ 7 ↓	↓	200ppbv	200ml	↓	↓		1431	LR		
12	✓	09	System Blank	12941	humid	200ml	1.00	LR		1533	LR		
13	✓	10	CCV-1 (200ppbv)	1443-151	50ppbv	50ml	↓	↓		1600	LR	1 at THF ↓	
14	✓	11	LCS-1 (200ppbv)	1443-147	"	"	1.00	LR		1624	SS		
15	✓	12	Lab Blank	12941 15673	humid	200ml	1.00	SS		1733	SS		
16	✓	5071713	07071163-01A	42242	10.5%-5ppb	200ml	2.06	SS		1828	SS		
17	✓	14	↓ 02A	4218 42247	11.0%		2.12			1902	SS		
18	✓	15	07071165-04	05545 4218	12.0%		2.23			1933	SS		
19	✓	16	07071166A-02A	34375 05545	0.0%		1.34			2006	SS		
20	✓	17	03A	34023 34375	4.0%		1.55			2039	SS		
21	✓	18	04A	5-3 34023	6.5%		1.71			2114	SS		
22	✓	19	05A	1592 5-3	8.0%	115ml	2.92			2140	SS		
23	✓	20	01A	343116	2.5%	25ml	11.7	↓		2208	LR/LR		
24	✓	21	07072165A-01A	4294	4.0 "As" 5ppb	200mL	1.55	LR	7/18/07	0042	LR/LR		
25	✓	22	-01AA	4294	4.0		1.55			0115	LR/LR		
26	✓	23	-02A	23886	2.0		1.44			0147	LR/LR		
27	✓	24	-03A	9551	7.0		1.75			0219	LR/LR		
28	✓	25	-04A	34491	3.5		1.52			0252	LR/LR		
29	✓	26	-05A	34248	3.5		1.52			0324	LR/LR		
30	✓	27	-06A	29307	5.5	↓	1.64			0357	LR/LR		
31	X	28	07072169A-01A	33779	3.0	20mL	14.9			0424	LR/—	RR@200mL	
32	X	29	-02A	33570	2.5	20mL	7450	↓	↓	0452	LR/—	500 X RR@0.6	
	✓	30	-01A	33779	3.0	200mL	1.49	LR	7/18/07	0607	LR		
	✓	31	-02A	33570	2.5	0.6mL	487	LR	↓	0635	LR		

Comments:

7-18-07
Date

Initial Calibration Narrative

A seven-point initial calibration was analyzed on MSD-5 on July 10, 2007.

The following compounds used 0.3 ppbv as the lowest calibration concentration: Benzene, Chloroform, Styrene and Cumene.

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15 Low Level

Internal Standard and Associated Target Compounds and Surrogates

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071016.d
Lab Smp Id: ICAL LCS Client Smp ID: LCS
Inj Date : 10-JUL-2007 22:22
Operator : kr Inst ID: msd5.i
Smp Info : 50ml #1443-144
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:10 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 17:28 Cal File: 5071011.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.187	8.214 (1.000)	130	249825	25.0000		70.00- 130.00	100.00
8.187	8.214 (1.000)	128	188631			51.52- 111.52	75.51
8.187	8.214 (1.000)	49	546662			208.25- 268.25	218.82
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	934836	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	157832			0.00- 46.63	16.88
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	745924	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	463858			30.57- 90.57	62.19
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	482363	23.7170	23.717	70.00- 130.00	100.00
9.265	9.265 (1.132)	67	251789			28.18- 88.18	52.20
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	795301	24.4433	24.443	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	92341			0.00- 41.76	11.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	537481			41.06- 101.06	67.58
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	506645	24.9486	24.949	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	776199			119.97- 179.97	153.20
16.675	16.675 (1.104)	176	494547			67.40- 127.40	97.61
6 Propylene					CAS #: 115-07-1		
2.325	2.353 (0.284)	41	2321563	54.3757	54.376	70.00- 130.00	100.00
2.325	2.353 (0.284)	42	1559354			36.39- 96.39	67.17
2.353	2.353 (0.287)	39	1563364			38.20- 98.20	67.34
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	3652507	48.9400	48.940	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	1164890			2.80- 62.80	31.89
9 Freon 114					CAS #: 76-14-2		
2.518	2.574 (0.308)	135	3254398	49.9793	49.979	70.00- 130.00	100.00
2.518	2.574 (0.308)	137	1033701			1.64- 61.64	31.76
10 Chloromethane					CAS #: 74-87-3		
2.684	2.712 (0.328)	50	2438615	51.4822	51.482	70.00- 130.00	100.00
2.684	2.712 (0.328)	52	754890			0.00- 59.59	30.96
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	1997612	50.3641	50.364	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	605527			0.94- 60.94	30.31
12 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.850 (0.345)	54	1835587	48.8097	48.810	70.00- 130.00	100.00
2.823	2.850 (0.345)	39	2153644			79.13- 139.13	117.33
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	1252241	52.1282	52.128	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	1184615			61.78- 121.78	94.60
19 Chloroethane					CAS #: 75-00-3		
3.486	3.542 (0.426)	64	919406	45.9365	45.936	70.00- 130.00	100.00
3.486	3.542 (0.426)	49	300811			1.23- 61.23	32.72
3.486	3.542 (0.426)	66	282322			0.00- 59.50	30.71
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.846 (0.466)	101	3059164	47.3465	47.346	70.00- 130.00	100.00
3.818	3.846 (0.466)	103	2000062			34.30- 94.30	65.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.205	4.260 (0.514)	45	705342	54.7811	54.781	70.00- 130.00	100.00
4.205	4.260 (0.514)	43	137182			0.00- 50.63	19.45
4.205	4.260 (0.514)	46	291293			12.88- 72.88	41.30
30 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.568)	151	1880175	53.9624	53.962	70.00- 130.00	100.00
4.648	4.648 (0.568)	153	1179630			33.00- 93.00	62.74
4.648	4.648 (0.568)	101	2392861			96.57- 156.57	127.27
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.703 (0.571)	61	2327994	53.8641	53.864	70.00- 130.00	100.00
4.675	4.703 (0.571)	96	1201779			21.57- 81.57	51.62
4.675	4.703 (0.571)	98	765933			2.43- 62.43	32.90
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	713462	51.6427	51.643	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	2708836			345.94- 405.94	379.67
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	3010612	50.5570	50.557	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	636155			0.00- 51.25	21.13
5.035	5.062 (0.615)	59	100495			0.00- 33.26	3.34
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.062 (0.615)	76	3108990	49.1652	49.165	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.339 (0.649)	76	530707	51.2517	51.252	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	2397160			428.29- 488.29	451.69
43 Methylene Chloride					CAS #: 75-09-2		
5.560	5.588 (0.679)	49	1890475	52.0136	52.014	70.00- 130.00	100.00
5.560	5.588 (0.679)	84	933264			19.10- 79.10	49.37
5.560	5.588 (0.679)	51	572471			0.00- 59.62	30.28
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	1889255	49.5899	49.590	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	597900			1.71- 61.71	31.65
5.892	5.892 (0.720)	41	684838			5.82- 65.82	36.25
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.975 (0.726)	96	1119216	49.0232	49.023	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	1925214			147.56- 207.56	172.01
5.947	5.975 (0.726)	98	703961			34.11- 94.11	62.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.279	6.306 (0.767)	57	2257805	48.2280	48.228	70.00- 130.00	100.00
6.279	6.306 (0.767)	43	1795613			48.00- 108.00	79.53
6.306	6.306 (0.770)	86	310198			0.00- 43.50	13.74
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.749 (0.821)	63	2061521	50.3946	50.394	70.00- 130.00	100.00
6.721	6.749 (0.821)	65	628205			0.08- 60.08	30.47
67 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	398157	47.9404	47.940	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	2942707			701.20- 761.20	739.08
7.800	7.800 (0.953)	57	194451			17.94- 77.94	48.84
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	1526993	52.0649	52.065	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	908508			28.69- 88.69	59.50
7.772	7.772 (0.949)	98	571132			7.24- 67.24	37.40
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	1646315	42.9950	42.995	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	355113			0.00- 50.96	21.57
8.187	8.187 (1.000)	72	386188			0.00- 52.57	23.46
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	1769848	50.8002	50.800	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	1125822			34.47- 94.47	63.61
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	2004966	50.5226	50.523	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	1292254			34.31- 94.31	64.45
74 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	1141755	51.5152	51.515	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	1947777			139.70- 199.70	170.60
8.546	8.546 (1.044)	41	1273519			82.79- 142.79	111.54
56 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.831)	86	259801	49.4956	49.496	70.00- 130.00	100.00
6.777	6.804 (0.828)	43	4205134			1517.90-1577.90	1618.60
6.777	6.804 (0.828)	42	329343			95.05- 155.05	126.77
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	1988453	50.3768	50.377	70.00- 130.00	100.00
8.823	8.823 (1.078)	117	2057341			73.73- 133.73	103.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	5308768	50.3402	50.340	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	1755747			3.13- 63.13	33.07
9.237	9.237 (1.128)	41	1906414			5.67- 65.67	35.91
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	2176619	50.9911	50.991	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	520269			0.00- 53.63	23.90
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	1680178	51.8142	51.814	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	514230			0.06- 60.06	30.61
90 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	281102	47.9951	47.995	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	2473059			838.33- 898.33	879.77
9.624	9.624 (0.956)	71	763922			240.92- 300.92	271.76
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	957122	48.0861	48.086	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	943838			68.79- 128.79	98.61
10.482	10.482 (1.041)	97	615031			33.78- 93.78	64.26
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	784579	49.6605	49.660	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	587344			43.63- 103.63	74.86
10.979	10.979 (1.091)	41	916468			86.84- 146.84	116.81
99 1,4-Dioxane					CAS #: 123-91-1		
11.228	11.200 (1.115)	88	461180	50.0543	50.054	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	464244			65.62- 125.62	100.66
11.200	11.200 (1.113)	57	157912			4.99- 64.99	34.24
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	1654537	52.5297	52.530	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	1059943			34.05- 94.05	64.06
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	1012316	49.9110	49.911	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	314037			1.72- 61.72	31.02
12.445	12.445 (1.236)	39	1133579			77.37- 137.37	111.98
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	780436	54.0382	54.038	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	2708132			324.04- 384.04	347.00
12.749	12.749 (1.266)	85	279808			5.91- 65.91	35.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	2279794	53.1086	53.108	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	1344361			29.35- 89.35	58.97
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	1238806	52.4321	52.432	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	378094			1.37- 61.37	30.52
13.468	13.468 (0.892)	39	1110773			59.57- 119.57	89.66
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	724747	53.4433	53.443	70.00- 130.00	100.00
13.772	13.744 (0.912)	99	447710			31.17- 91.17	61.77
13.744	13.744 (0.910)	83	591310			49.80- 109.80	81.59
116 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.800 (0.914)	166	998272	52.9133	52.913	70.00- 130.00	100.00
13.799	13.800 (0.914)	129	858742			54.80- 114.80	86.02
13.799	13.800 (0.914)	131	818805			53.68- 113.68	82.02
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	1033558	53.4356	53.436	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	2759112			232.19- 292.19	266.95
14.131	14.131 (0.936)	100	174276			0.00- 48.26	16.86
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1517047	54.3107	54.311	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	1178203			47.59- 107.59	77.66
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	1219267	52.2753	52.275	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	1164805			65.69- 125.69	95.53
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1848850	52.7840	52.784	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	599944			2.34- 62.34	32.45
15.154	15.154 (1.004)	77	1145718			33.83- 93.83	61.97
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	1031443	53.5213	53.521	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	3352158			297.24- 357.24	325.00
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	1284800	53.0015	53.001	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	2840653			193.39- 253.39	221.10
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	1191487	52.6248	52.625	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	2761684			210.05- 270.05	231.78
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	1988913	53.4759	53.476	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	1148993			29.76- 89.76	57.77
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	1340917	55.2051	55.205	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	695685			21.17- 81.17	51.88
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1597152	50.9774	50.977	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	1047066			34.95- 94.95	65.56
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	4547110	54.8250	54.825	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	1288545			0.00- 57.28	28.34
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	3834498	54.6167	54.617	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	1711173			14.22- 74.22	44.63
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	4126863	53.2303	53.230	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	1637565			10.86- 70.86	39.68
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	2372441	51.1021	51.102	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	1498143			32.39- 92.39	63.15
17.836	17.836 (1.181)	111	1126165			16.65- 76.65	47.47
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1922376	49.9820	49.982	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	1231921			32.96- 92.96	64.08
17.919	17.919 (1.187)	111	944248			18.50- 78.50	49.12
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.058 (1.196)	91	3540032	55.7551	55.755	70.00- 130.00	100.00
18.057	18.058 (1.196)	126	609485			0.00- 47.51	17.22
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	2409415	51.5765	51.576	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	1524501			32.18- 92.18	63.27
18.279	18.279 (1.211)	111	1151923			16.70- 76.70	47.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1649101	46.9339	46.934	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	1587635			65.09- 125.09	96.27
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1468716	48.8127	48.813	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	926111			32.42- 92.42	63.06
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	4866049	57.2757	57.276	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	1040365			0.00- 52.34	21.38
16.924	16.924 (1.121)	105	189057			0.00- 33.95	3.89
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	4123441	54.5560	54.556	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	1053156			0.00- 54.04	25.54
16.426	16.426 (1.088)	51	667403			0.00- 46.15	16.19
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	4456805	44.6353	44.635	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	549042			0.00- 42.44	12.32
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	2753400	49.1790	49.179	70.00- 130.00	100.00
3.514	3.542 (0.429)	57	1523151			28.21- 88.21	55.32
3.514	3.542 (0.429)	72	150162			0.00- 35.14	5.45
11 Butane					CAS #: 106-97-8		
2.740	2.767 (0.335)	58	523396	50.3991	50.399	70.00- 130.00	100.00
2.740	2.767 (0.335)	43	4332614			783.91- 843.91	827.79
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	1280457	56.4718	56.472	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	642565			20.54- 80.54	50.18
10.703	10.703 (1.063)	55	1618497			97.36- 157.36	126.40

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071016.d
Lab Smp Id: ICAL LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	249825	6.38
92 1,4-Difluorobenze	894476	536686	1252266	934836	4.51
125 Chlorobenzene-d5	750815	450489	1051141	745924	-0.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	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: 11-Jul-2007 11:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-10jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICAL LCS Client Smp ID: LCS
Level: LOW Operator: kr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	48.940	97.88	70-130
9 Freon 114	50.000	49.979	99.96	70-130
10 Chloromethane	50.000	51.482	102.96	70-130
13 Vinyl Chloride	50.000	50.364	100.73	70-130
12 1,3-Butadiene	50.000	48.810	97.62	60-140
15 Bromomethane	50.000	52.128	104.26	70-130
19 Chloroethane	50.000	45.936	91.87	70-130
20 Trichlorofluoromet	50.000	47.346	94.69	70-130
26 Ethanol	50.000	54.781	109.56	60-140
30 Freon 113	50.000	53.962	107.92	70-130
31 1,1-Dichloroethene	50.000	53.864	107.73	70-130
35 Carbon Disulfide	50.000	49.165	98.33	60-140
32 Acetone	50.000	51.643	103.29	60-140
36 2-Propanol	50.000	50.557	101.11	60-140
38 3-Chloropropene	50.000	51.252	102.50	60-140
43 Methylene Chloride	50.000	52.014	104.03	70-130
46 MTBE	50.000	49.590	99.18	60-140
47 trans-1,2-Dichloro	50.000	49.023	98.05	60-140
51 Hexane	50.000	48.228	96.46	60-140
55 1,1-Dichloroethane	50.000	50.394	100.79	70-130
66 cis-1,2-Dichloroet	50.000	52.065	104.13	70-130
67 2-Butanone	50.000	47.940	95.88	60-140
70 Tetrahydrofuran	50.000	42.995	85.99	60-140
72 Chloroform	50.000	50.800	101.60	70-130
74 Cyclohexane	50.000	51.515	103.03	60-140
75 1,1,1-Trichloroeth	50.000	50.523	101.05	70-130
56 Vinyl Acetate	50.000	49.496	98.99	60-140
77 Carbon Tetrachlori	50.000	50.377	100.75	70-130
80 2,2,4-Trimethylpen	50.000	50.340	100.68	60-140
81 Benzene	50.000	50.991	101.98	70-130
85 1,2-Dichloroethane	50.000	51.814	103.63	70-130
90 Heptane	50.000	47.995	95.99	60-140
93 Trichloroethene	50.000	48.086	96.17	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	49.660	99.32	70-130
99 1,4-Dioxane	50.000	50.054	100.11	60-140
100 Bromodichlorometha	50.000	52.530	105.06	60-140
103 cis-1,3-Dichloropr	50.000	49.911	99.82	70-130
106 4-Methyl-2-pentano	50.000	54.038	108.08	60-140
108 Toluene	50.000	53.108	106.22	70-130
113 trans-1,3-Dichloro	50.000	52.432	104.86	70-130
114 1,1,2-Trichloroeth	50.000	53.443	106.89	70-130
116 Tetrachloroethene	50.000	52.913	105.83	70-130
119 2-Hexanone	50.000	53.436	106.87	60-140
120 Dibromochlorometha	50.000	54.311	108.62	60-140
122 1,2-Dibromoethane	50.000	52.275	104.55	70-130
126 Chlorobenzene	50.000	52.784	105.57	70-130
128 Ethyl Benzene	50.000	53.521	107.04	70-130
130 m,p-Xylene	50.000	53.001	106.00	70-130
132 o-Xylene	50.000	52.625	105.25	70-130
133 Styrene	50.000	53.476	106.95	70-130
134 Bromoform	50.000	55.205	110.41	60-140
136 Cumene	50.000	54.556	109.11	60-140
141 1,1,2,2-Tetrachlor	50.000	50.977	101.95	70-130
142 Propylbenzene	50.000	57.276	114.55	60-140
144 4-Ethyltoluene	50.000	54.825	109.65	60-140
147 1,3,5-Trimethylben	50.000	54.617	109.23	70-130
152 1,2,4-Trimethylben	50.000	53.230	106.46	70-130
155 1,3-Dichlorobenzen	50.000	51.102	102.20	70-130
156 1,4-Dichlorobenzen	50.000	49.982	99.96	70-130
157 alpha-Chlorotoluen	50.000	55.755	111.51	70-130
159 1,2-Dichlorobenzen	50.000	51.576	103.15	70-130
163 1,2,4-Trichloroben	50.000	46.934	93.87	70-130
164 Hexachlorobutadien	50.000	48.813	97.63	70-130
6 Propylene	50.000	54.376	108.75	70-130
165 Naphthalene	50.000	44.635	89.27	60-140
11 Butane	50.000	50.399	100.80	70-130
17 Isopentane	50.000	49.179	98.36	70-130
94 Methyl Cyclohexane	50.000	56.472	112.94	70-130

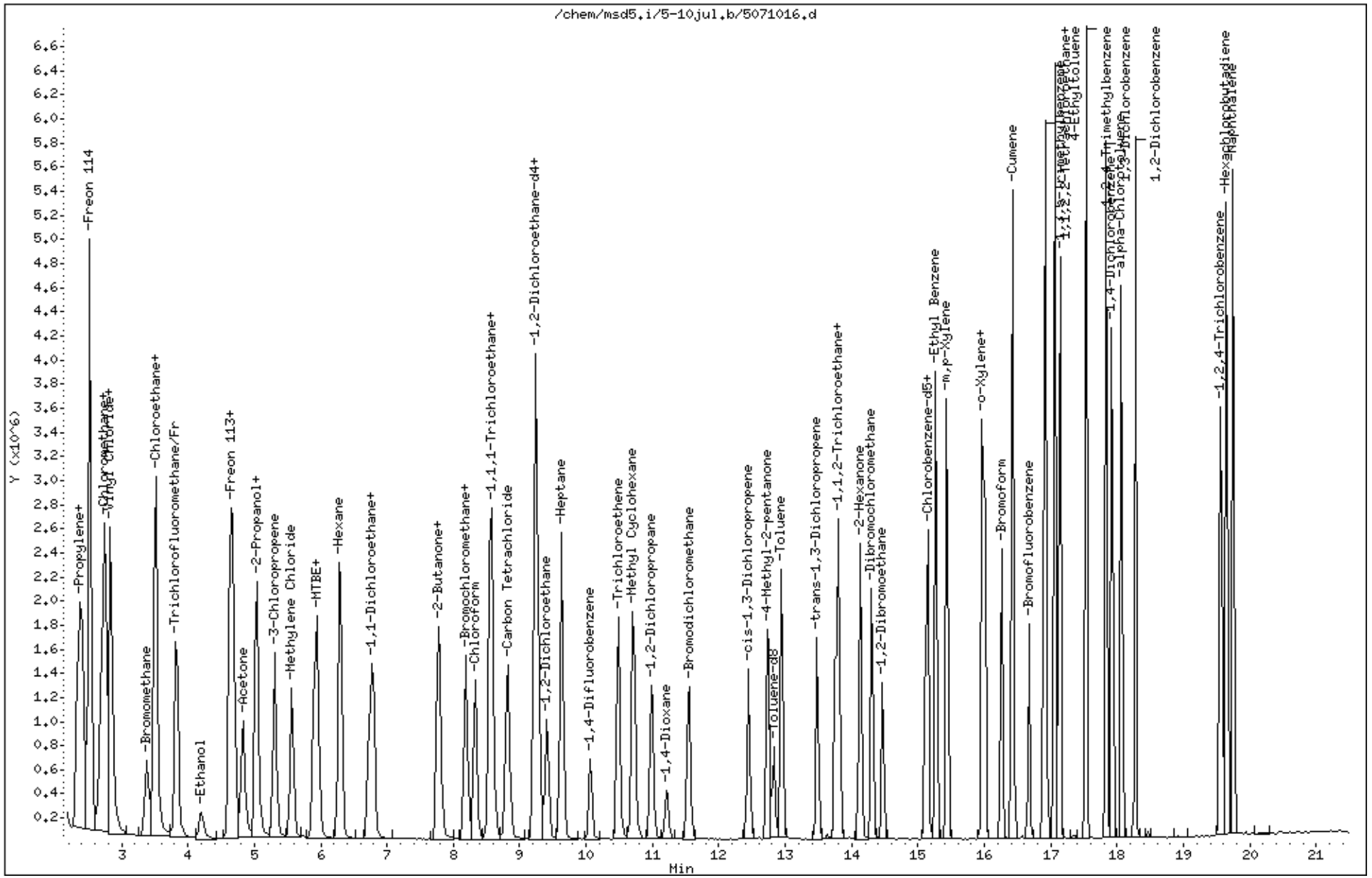
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.717	94.87	70-130
$ 107 Toluene-d8	25.000	24.443	97.77	70-130
$ 138 Bromofluorobenzene	25.000	24.949	99.79	70-130

Data File: /chem/msd5.i/5-10jul.b/5071016.d
Date : 10-JUL-2007 22:22
Client ID: LCS
Sample Info: 50ml #1443-144

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

Column phase: RTx-624

0072



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071005.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 10-JUL-2007 14:34
Operator : db Inst ID: msd5.i
Smp Info : 0.3ml #1443-151
Misc Info : 200ppbv-0.3ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:09 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 14:34 Cal File: 5071005.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	242837	25.0000		70.00- 130.00	100.00
8.214	8.214 (1.000)	128	171296			46.71- 106.71	70.54
8.187	8.187 (1.000)	49	507831			194.03- 254.03	209.12
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	859682	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	146096			0.00- 46.61	16.99
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	698032	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	424117			0.00- 30.00	60.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	460896	25.0000	23.314	70.00- 130.00	100.00
9.265	9.265 (1.128)	67	207650			0.00- 30.00	45.05
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	739240	25.0000	24.706	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	93482			0.00- 30.00	12.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	484149			0.00- 30.00	65.49
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	444976	25.0000	23.415	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	690188			123.91- 183.91	155.11
16.675	16.675 (1.104)	176	430286			68.17- 128.17	96.70
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.013)	83	10556	0.30000	0.3117	70.00- 130.00	100.00
8.325	8.325 (1.013)	85	6967			34.70- 94.70	66.00
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	12824	0.30000	0.3267	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	6010			0.00- 30.00	46.87
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	11908	0.30000	0.3421	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	8574			31.18- 91.18	72.00
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	24105	0.30000	0.3408	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	7146			0.00- 30.00	29.65
16.426	16.426 (1.088)	51	5474			0.00- 30.00	22.71

Report Date: 11-Jul-2007 11:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071005.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-0.3ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	242837	3.41
92 1,4-Difluorobenze	894476	536686	1252266	859682	-3.89
125 Chlorobenzene-d5	750815	450489	1051141	698032	-7.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	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.

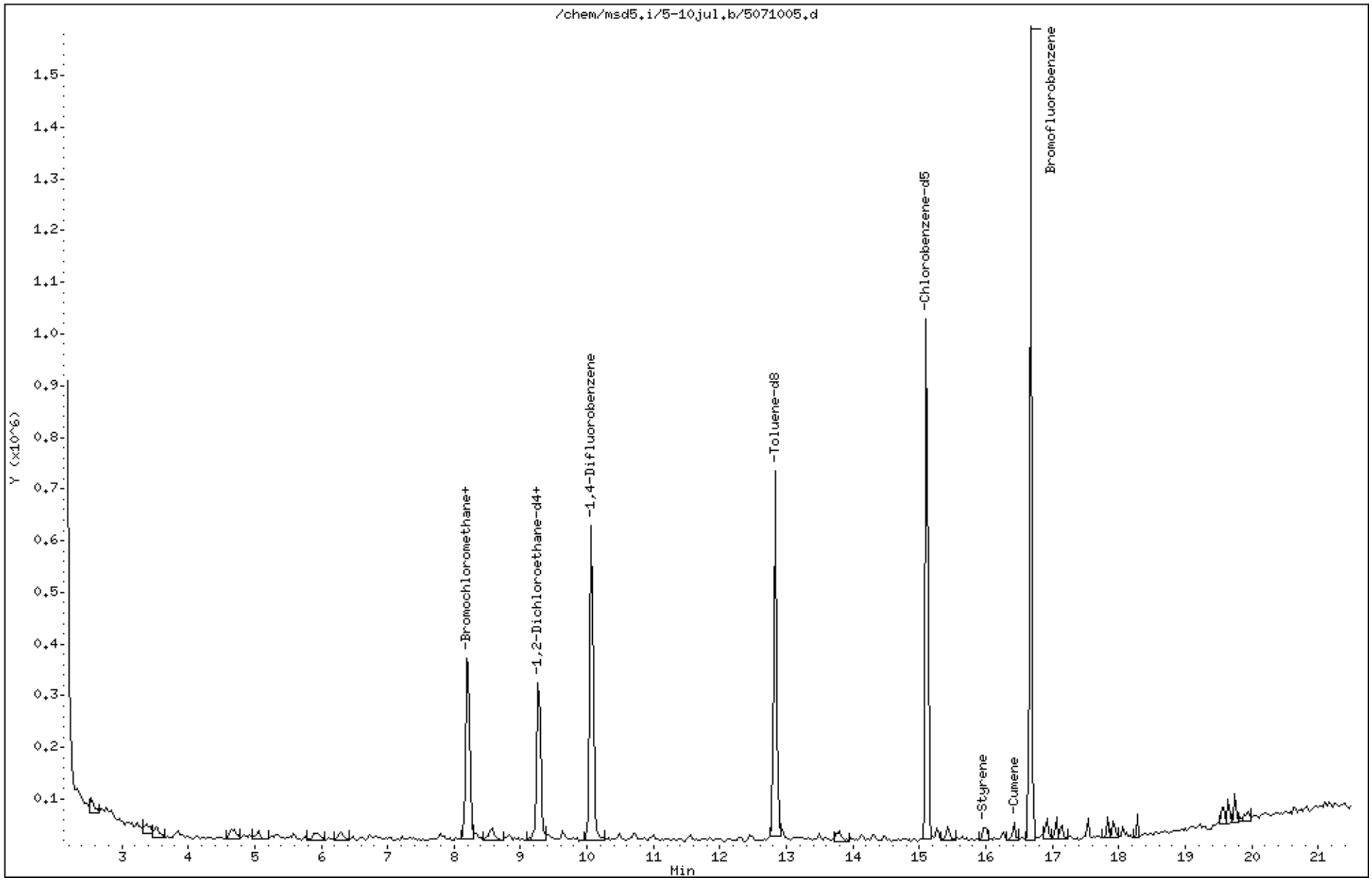
0076

Data File: /chem/msd5.i/5-10jul.b/5071005.d
Date : 10-JUL-2007 14:34
Client ID: Level 1
Sample Info: 0.3ml #1443-151

Instrument: msd5.i

Operator: db
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071006.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 10-JUL-2007 15:02
Operator : db Inst ID: msd5.i
Smp Info : 0.5ml #1443-151
Misc Info : 200ppbv-0.5ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:09 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 15:02 Cal File: 5071006.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.214	8.214 (1.000)	130	226764	25.0000		70.00- 130.00		100.00
8.214	8.214 (1.000)	128	180985			46.71- 106.71		79.81
8.187	8.187 (1.000)	49	506713			194.03- 254.03		223.45
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
10.067	10.067 (1.000)	114	843276	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	142843			0.00- 46.61		16.94
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	696570	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	424982			0.00- 30.00		61.01
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	449043	25.0000	24.324	70.00- 130.00		100.00
9.265	9.265 (1.128)	67	190783			0.00- 30.00		42.49
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	733377	25.0000	24.987	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	81183			0.00- 30.00		11.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	439419			0.00- 30.00	59.92
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	455687	25.0000	24.029	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	687174			123.91- 183.91	150.80
16.675	16.675 (1.104)	176	452780			68.17- 128.17	99.36
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.293)	85	33938	0.50000	0.5010	70.00- 130.00	100.00
2.408	2.408 (0.293)	87	12708			0.00- 30.00	37.44
9 Freon 114					CAS #: 76-14-2		
2.546	2.546 (0.310)	135	30864	0.50000	0.5222	70.00- 130.00	100.00
2.546	2.546 (0.310)	137	9275			1.51- 61.51	30.05
13 Vinyl Chloride					CAS #: 75-01-4		
2.878	2.878 (0.350)	62	19273	0.50000	0.5353	70.00- 130.00	100.00
2.850	2.850 (0.347)	64	5946			0.00- 30.00	30.85
12 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.347)	54	18068	0.50000	0.5293	70.00- 130.00	100.00
2.850	2.850 (0.347)	39	18109			0.00- 30.00	100.23
15 Bromomethane					CAS #: 74-83-9		
3.403	3.403 (0.414)	94	9539	0.50000	0.4375	70.00- 130.00	100.00(a)
3.403	3.403 (0.414)	96	8608			64.14- 124.14	90.24
19 Chloroethane					CAS #: 75-00-3		
3.542	3.542 (0.431)	64	10786	0.50000	0.5937	70.00- 130.00	100.00
3.514	3.514 (0.428)	49	3097			0.00- 30.00	28.71
3.514	3.514 (0.428)	66	1916			0.00- 30.00	17.76
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.468)	101	31567	0.50000	0.5382	70.00- 130.00	100.00
3.818	3.818 (0.465)	103	20719			34.84- 94.84	65.63
30 Freon 113					CAS #: 76-13-1		
4.620	4.620 (0.562)	151	14484	0.50000	0.4580	70.00- 130.00	100.00(a)
4.675	4.675 (0.569)	153	10622			33.68- 93.68	73.34
4.648	4.648 (0.566)	101	19241			94.70- 154.70	132.84
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.703	4.703 (0.573)	61	19904	0.50000	0.5074	70.00- 130.00	100.00
4.703	4.703 (0.573)	96	10959			21.33- 81.33	55.06
4.703	4.703 (0.573)	98	9131			2.11- 62.11	45.88

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.613)	76	28159	0.50000	0.4906	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.588	5.588 (0.680)	49	16742	0.50000	0.5075	70.00- 130.00	100.00
5.588	5.588 (0.680)	84	9403			20.85- 80.85	56.16
5.588	5.588 (0.680)	51	6964			0.00- 30.00	41.60
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.717)	73	18701	0.50000	0.5408	70.00- 130.00	100.00
5.892	5.892 (0.717)	57	6008			2.25- 62.25	32.13
5.892	5.892 (0.717)	41	11875			0.00- 30.00	63.50
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.724)	96	11783	0.50000	0.5686	70.00- 130.00	100.00
5.947	5.947 (0.724)	61	17495			141.19- 201.19	148.48
5.947	5.947 (0.724)	98	7344			0.00- 30.00	62.33
51 Hexane					CAS #: 110-54-3		
6.307	6.307 (0.768)	57	23849	0.50000	0.5612	70.00- 130.00	100.00
6.307	6.307 (0.768)	43	18034			0.00- 30.00	75.62
6.307	6.307 (0.768)	86	5189			0.00- 30.00	21.76
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.749	6.749 (0.822)	63	18451	0.50000	0.4969	70.00- 130.00	100.00(a)
6.721	6.721 (0.818)	65	5416			0.00- 59.97	29.35
67 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.950)	72	4769	0.50000	0.6326	70.00- 130.00	100.00
7.827	7.827 (0.953)	43	20362			715.89- 775.89	426.97
7.827	7.827 (0.953)	57	2116			0.00- 30.00	44.37
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.946)	61	11858	0.50000	0.4454	70.00- 130.00	100.00(a)
7.772	7.772 (0.946)	96	9781			26.40- 86.40	82.48
7.772	7.772 (0.946)	98	5040			6.40- 66.40	42.50
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (0.997)	42	24507	0.50000	0.7051	70.00- 130.00	100.00
8.187	8.187 (0.997)	71	3100			0.00- 50.92	12.65
8.214	8.214 (1.000)	72	4495			0.00- 30.00	18.34
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.013)	83	15956	0.50000	0.5046	70.00- 130.00	100.00
8.353	8.353 (1.017)	85	9811			34.70- 94.70	61.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.601	8.601 (1.047)	97	16641	0.50000	0.4620	70.00- 130.00	100.00(a)
8.601	8.601 (1.047)	99	9647			33.02- 93.02	57.97
74 Cyclohexane					CAS #: 110-82-7		
8.574	8.574 (1.044)	84	10347	0.50000	0.5143	70.00- 130.00	100.00
8.574	8.574 (1.044)	56	16631			142.16- 202.16	160.73
8.546	8.546 (1.040)	41	14436			87.22- 147.22	139.52
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.074)	119	19436	0.50000	0.5425	70.00- 130.00	100.00
8.823	8.823 (1.074)	117	18754			75.04- 135.04	96.49
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.125)	57	46836	0.50000	0.4893	70.00- 130.00	100.00(a)
9.237	9.237 (1.125)	56	15969			0.00- 30.00	34.10
9.237	9.237 (1.125)	41	13766			0.00- 30.00	29.39
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	22296	0.50000	0.5790	70.00- 130.00	100.00
9.210	9.210 (0.915)	77	7070			0.00- 30.00	31.71
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.431	9.431 (0.937)	62	14320	0.50000	0.4896	70.00- 130.00	100.00(a)
9.431	9.431 (0.937)	64	3060			0.00- 30.00	21.37
90 Heptane					CAS #: 142-82-5		
9.652	9.652 (0.959)	100	2523	0.50000	0.4775	70.00- 130.00	100.00(a)
9.652	9.652 (0.959)	43	17383			0.00- 30.00	688.98
9.652	9.652 (0.959)	71	6674			0.00- 30.00	264.53
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	10977	0.50000	0.6114	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	7668			67.78- 127.78	69.86
10.482	10.482 (1.041)	97	6725			34.90- 94.90	61.26
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	8251	0.50000	0.5790	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	5129			45.06- 105.06	62.16
11.007	11.007 (1.093)	41	10692			89.61- 149.61	129.58
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	14285	0.50000	0.5028	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	12787			31.98- 91.98	89.51
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	9748	0.50000	0.5328	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.445	12.445 (1.236)	77	3576			0.50- 60.50	36.68
12.445	12.445 (1.236)	39	11473			80.91- 140.91	117.70
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	5313	0.50000	0.4078	70.00- 130.00	100.00(a)
12.749	12.749 (1.266)	43	18496			0.00- 30.00	348.13
12.721	12.721 (1.264)	85	3704			0.00- 30.00	69.72
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	21352	0.50000	0.5514	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	9927			29.75- 89.75	46.49
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.495	13.495 (0.894)	75	11661	0.50000	0.5285	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	3843			0.39- 60.39	32.96
13.468	13.468 (0.892)	39	9134			62.40- 122.40	78.33
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.772	13.772 (0.912)	97	6334	0.50000	0.5002	70.00- 130.00	100.00
13.772	13.772 (0.912)	99	4223			30.91- 90.91	66.67
13.744	13.744 (0.910)	83	5478			49.76- 109.76	86.49
116 Tetrachloroethene					CAS #: 127-18-4		
13.827	13.827 (0.916)	166	8019	0.50000	0.4552	70.00- 130.00	100.00(a)
13.800	13.800 (0.914)	129	8006			53.81- 113.81	99.84
13.800	13.800 (0.914)	131	6111			52.52- 112.52	76.21
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	12274	0.50000	0.4705	70.00- 130.00	100.00(a)
14.297	14.297 (0.947)	127	7835			0.00- 30.00	63.83
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	10544	0.50000	0.4841	70.00- 130.00	100.00(a)
14.463	14.463 (0.958)	109	10715			67.68- 127.68	101.62
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	16228	0.50000	0.4961	70.00- 130.00	100.00(a)
15.154	15.154 (1.004)	114	8014			2.43- 62.43	49.38
15.154	15.154 (1.004)	77	20302			32.38- 92.38	125.10
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	8664	0.50000	0.4814	70.00- 130.00	100.00(a)
15.265	15.265 (1.011)	91	29296			0.00- 30.00	338.13
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	10735	0.50000	0.4742	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.431	15.431 (1.022)	91	26625			0.00- 30.00	248.02
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	11820	0.50000	0.5590	70.00- 130.00	100.00
15.956	15.956 (1.057)	91	23033			202.47- 262.47	194.86
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	14799	0.50000	0.4261	70.00- 130.00	100.00(a)
16.011	16.011 (1.060)	78	10795			31.18- 91.18	72.94
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	8348	0.50000	0.3680	70.00- 130.00	100.00(a)
16.260	16.260 (1.077)	171	4724			20.85- 80.85	56.59
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	14924	0.50000	0.5101	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	8869			34.27- 94.27	59.43
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	34547	0.50000	0.4460	70.00- 130.00	100.00(a)
17.062	17.062 (1.130)	120	10386			0.00- 58.00	30.06
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	27797	0.50000	0.4240	70.00- 130.00	100.00(a)
17.145	17.145 (1.135)	120	13684			0.00- 30.00	49.23
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	35150	0.50000	0.4855	70.00- 130.00	100.00(a)
17.532	17.532 (1.161)	120	11516			11.27- 71.27	32.76
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	20928	0.50000	0.4827	70.00- 130.00	100.00(a)
17.836	17.836 (1.181)	148	15863			0.00- 30.00	75.80
17.836	17.836 (1.181)	111	10440			0.00- 30.00	49.89
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	18599	0.50000	0.5178	70.00- 130.00	100.00
17.947	17.947 (1.189)	148	8411			0.00- 30.00	45.22
17.919	17.919 (1.187)	111	6518			0.00- 30.00	35.04
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	23174	0.50000	0.3908	70.00- 130.00	100.00(a)
18.058	18.058 (1.196)	126	4220			0.00- 30.00	18.21
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	20133	0.50000	0.4615	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.279	18.279 (1.211)	148	13383			32.97- 92.97	66.47
18.279	18.279 (1.211)	111	12701			17.35- 77.35	63.09
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	34616	0.50000	0.4363	70.00- 130.00	100.00(a)
16.924	16.924 (1.121)	120	12415			0.00- 30.00	35.86
16.924	16.924 (1.121)	105	1891			0.00- 30.00	5.46
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	29327	0.50000	0.4155	70.00- 130.00	100.00(a)
16.426	16.426 (1.088)	120	9389			0.00- 30.00	32.01
16.426	16.426 (1.088)	51	8322			0.00- 30.00	28.38
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.730	10.730 (1.066)	83	8319	0.50000	0.4067	70.00- 130.00	100.00(a)
10.703	10.703 (1.063)	98	5982			0.00- 30.00	71.91
10.703	10.703 (1.063)	55	11841			0.00- 30.00	142.34

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071006.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-0.5ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	226764	-3.44
92 1,4-Difluorobenze	894476	536686	1252266	843276	-5.72
125 Chlorobenzene-d5	750815	450489	1051141	696570	-7.22

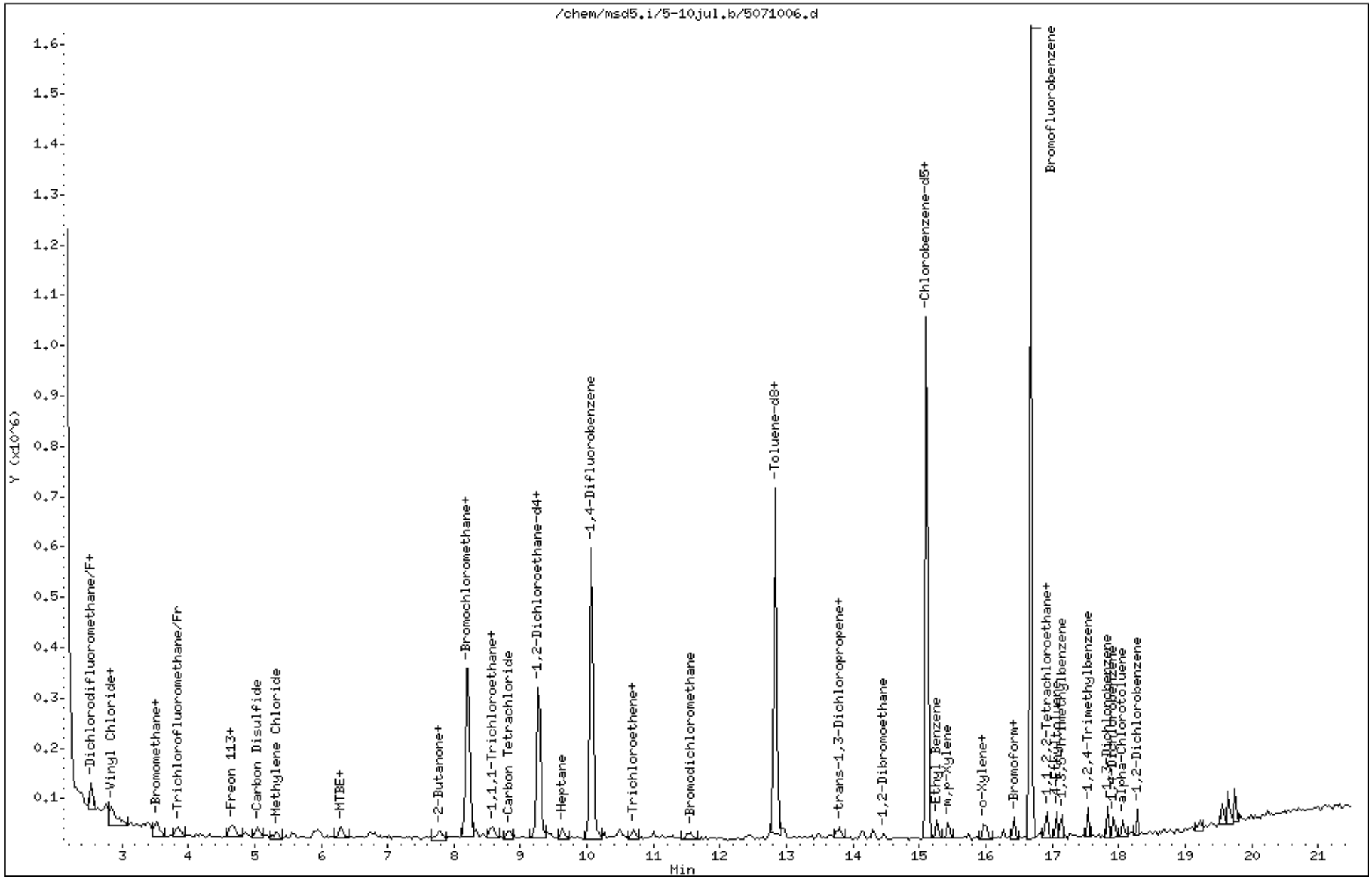
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-10jul.b/5071006.d
Date : 10-JUL-2007 15:02
Client ID: Level 2
Sample Info: 0.5ml #1443-151

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

Column phase: RTx-624



0085

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071706.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 17-JUL-2007 13:31
Operator : lmr Inst ID: msd5.i
Smp Info : 2.0ml #1487-336
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 16:00 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 13:31 Cal File: 5071706.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp15b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.214	8.214 (1.000)	130	216693	25.0000		70.00- 130.00		100.00
8.214	8.214 (1.000)	128	159594			50.06- 110.06		73.65
8.187	8.187 (1.000)	49	456979			188.59- 248.59		210.89
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	728440	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	121893			0.00- 46.78		16.73
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	599456	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	376471			0.00- 30.00		62.80
60 2,2-Dichloropropane					CAS #: 594-20-7			
7.717	7.717 (0.939)	77	27375	2.00000	1.344	70.00- 130.00		100.00(a)
7.689	7.689 (0.936)	79	9064			0.97- 60.97		33.11
7.689	7.689 (0.936)	97	6567			0.00- 30.00		23.99
73 1,1-Dichloropropene					CAS #: 563-58-6			
8.878	8.878 (1.081)	110	13784	2.00000	2.033	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1-Dichloropropene (continued)							
8.878	8.878 (1.081)	75	35434			0.00- 30.00	257.07
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.293	15.293 (1.013)	131	26371	2.00000	1.754	70.00- 130.00	100.00(a)
15.293	15.293 (1.013)	117	15466			0.00- 30.00	58.65
15.293	15.293 (1.013)	95	13406			0.00- 30.00	50.84
137 Bromobenzene					CAS #: 108-86-1		
16.841	16.841 (1.115)	156	32309	2.00000	2.151	70.00- 130.00	100.00
16.841	16.841 (1.115)	77	48991			151.93- 211.93	151.63
16.841	16.841 (1.115)	158	25837			0.00- 30.00	79.97
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.952	16.952 (1.123)	110	16336	2.00000	1.781	70.00- 130.00	100.00(a)
16.952	16.952 (1.123)	61	14303			0.00- 30.00	87.56
16.952	16.952 (1.123)	112	12976			0.00- 30.00	79.43
140 2-Chlorotoluene					CAS #: 95-49-8		
17.062	17.062 (1.130)	126	23962	2.00000	1.949	70.00- 130.00	100.00(a)
17.035	17.035 (1.128)	91	84436			290.93- 350.93	352.37
17.062	17.062 (1.130)	65	9993			0.00- 30.00	41.70
143 4-Chlorotoluene					CAS #: 106-43-4		
17.173	17.173 (1.137)	126	23234	2.00000	1.968	70.00- 130.00	100.00(a)
17.173	17.173 (1.137)	91	66665			319.44- 379.44	286.93
17.173	17.173 (1.137)	63	13726			0.00- 30.00	59.08
149 tert-Butylbenzene					CAS #: 98-06-6		
17.477	17.477 (1.157)	119	82724	2.00000	1.754	70.00- 130.00	100.00(a)
17.477	17.477 (1.157)	134	22126			0.00- 52.08	26.75
17.477	17.477 (1.157)	91	66018			0.00- 30.00	79.81
150 Pentachloroethane					CAS #: 76-01-7		
17.532	17.532 (1.161)	167	27879	2.00000	1.866	70.00- 130.00	100.00(a)
17.532	17.532 (1.161)	117	27048			0.00- 30.00	97.02
151 sec-Butylbenzene					CAS #: 135-98-8		
17.698	17.698 (1.172)	105	117636	2.00000	1.811	70.00- 130.00	100.00(a)
17.698	17.698 (1.172)	134	26399			0.00- 50.62	22.44
17.698	17.698 (1.172)	91	20276			0.00- 30.00	17.24
153 p-Cymene					CAS #: 99-87-6		
17.836	17.836 (1.181)	134	35774	2.00000	1.978	70.00- 130.00	100.00(a)
17.836	17.836 (1.181)	119	138514			384.84- 444.84	387.19
17.836	17.836 (1.181)	91	35834			0.00- 30.00	100.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.947	17.947 (1.189)	120	37022	2.00000	1.777	70.00- 130.00	100.00(a)
17.947	17.947 (1.189)	105	107352			234.22- 294.22	289.97
17.947	17.947 (1.189)	77	13967			0.00- 30.00	37.73
158 Butylbenzene					CAS #: 104-51-8		
18.224	18.224 (1.207)	134	29297	2.00000	1.833	70.00- 130.00	100.00(a)
18.224	18.224 (1.207)	91	95676			292.35- 352.35	326.57
18.224	18.224 (1.207)	92	52454			0.00- 30.00	179.04
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.970	18.970 (1.256)	157	28509	2.00000	1.958	70.00- 130.00	100.00(a)
18.942	18.942 (1.255)	75	34722			87.54- 147.54	121.79
18.970	18.970 (1.256)	155	18991			0.00- 30.00	66.61

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071706.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 13:58
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	198564	119138	277990	216693	9.13
92 1,4-Difluorobenze	742516	445510	1039522	728440	-1.90
125 Chlorobenzene-d5	579346	347608	811084	599456	3.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-17jul.b/5071706.d

Date : 17-JUL-2007 13:31

Client ID: Level 3

Sample Info: 2.0ml #1487-336

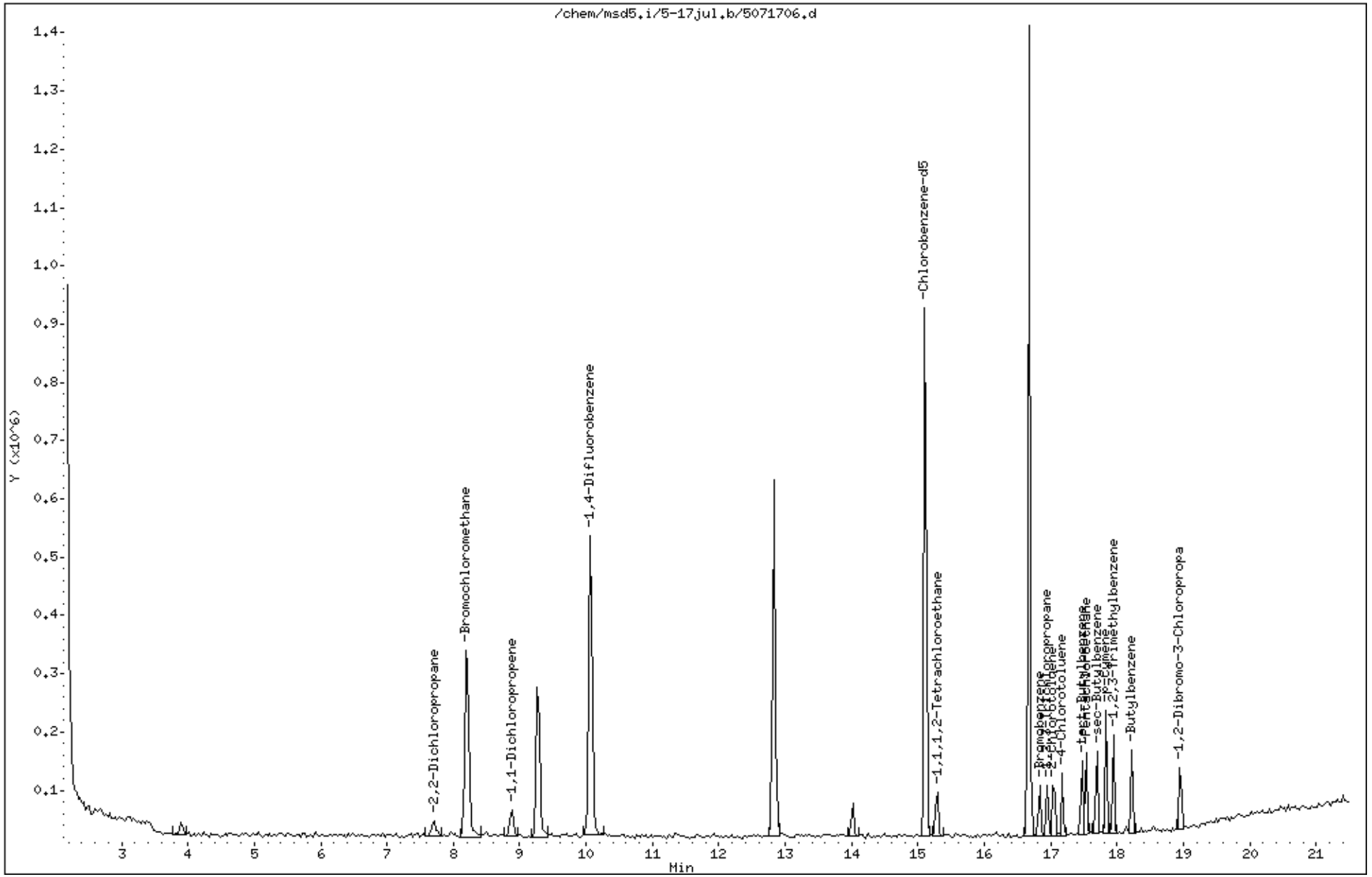
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0090



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071702.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 17-JUL-2007 09:35
Operator : lmr Inst ID: msd5.i
Smp Info : 2.0ml #1487-341
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 15:56 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 13:31 Cal File: 5071706.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.214	8.214 (1.000)	130	273655	25.0000		70.00- 130.00		100.00
8.214	8.214 (1.000)	128	205725			45.02- 105.02		75.18
8.214	8.214 (1.000)	49	592423			191.72- 251.72		216.49
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
10.067	10.067 (1.000)	114	970169	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	167912			0.00- 48.58		17.31
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	734809	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	452976			0.00- 30.00		61.65
3 Freon 152a						CAS #: 75-37-6		
2.408	2.408 (0.293)	65	59888	2.00000	2.077	70.00- 130.00		100.00
2.463	2.463 (0.300)	51	285804			0.00- 30.00		477.23
16 Dichlorofluoromethane/Fr21						CAS #: 75-43-4		
3.873	3.873 (0.472)	67	93870	2.00000	1.859	70.00- 130.00		100.00(a)
3.873	3.873 (0.472)	69	32829			0.00- 30.00		34.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21 (continued)							
4.288	4.288 (0.522)	35	1267			0.00- 30.00	1.35
22 Freon123a					CAS #: 354-23-4		
4.426	4.426 (0.539)	117	49723	2.00000	1.775	70.00- 130.00	100.00(a)
4.426	4.426 (0.539)	67	73885			0.00- 30.00	148.59
24 Freon123					CAS #: 306-83-2		
4.565	4.565 (0.556)	83	71776	2.00000	1.674	70.00- 130.00	100.00(a)
4.537	4.537 (0.552)	133	16959			0.00- 30.00	23.63
4.537	4.537 (0.552)	85	59295			0.00- 30.00	82.61
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.726	5.726 (0.697)	59	94768	2.00000	2.763	70.00- 130.00	100.00
5.726	5.726 (0.697)	41	29698			0.00- 30.00	31.34
5.726	5.726 (0.697)	57	13749			0.00- 30.00	14.51
49 Isopropyl ether					CAS #: 108-20-3		
6.721	6.721 (0.818)	45	214259	2.00000	1.811	70.00- 130.00	100.00(a)
6.749	6.749 (0.822)	87	38084			0.00- 30.00	17.77
6.749	6.749 (0.822)	59	19297			0.00- 30.00	9.01
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.357	7.357 (0.896)	59	146826	2.00000	1.732	70.00- 130.00	100.00(a)
7.357	7.357 (0.896)	87	43210			0.00- 30.00	29.43
7.385	7.385 (0.899)	41	32003			0.00- 30.00	21.80
61 Ethyl Acetate					CAS #: 141-78-6		
7.883	7.883 (0.960)	70	6866	2.00000	1.486	70.00- 130.00	100.00(a)
7.883	7.883 (0.960)	43	127018			0.00- 30.00	1849.96
7.883	7.883 (0.960)	61	12240			0.00- 30.00	178.27
76 Isobutanol					CAS #: 78-83-1		
9.237	9.237 (0.918)	43	38125	2.00000	1.579	70.00- 130.00	100.00
9.237	9.237 (0.918)	41	30681			0.00- 30.00	80.47
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.431	9.431 (1.148)	73	81755	2.00000	1.645	70.00- 130.00	100.00(a)
9.431	9.431 (1.148)	87	24204			0.00- 30.00	29.61
9.431	9.431 (1.148)	55	39870			0.00- 30.00	48.77
118 Butyl Acetate					CAS #: 123-86-4		
14.297	14.297 (1.420)	56	39469	2.00000	1.722	70.00- 130.00	100.00(a)
14.297	14.297 (1.420)	73	10008			0.00- 30.00	25.36
14.297	14.297 (1.420)	43	124753			0.00- 30.00	316.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
131 2-Heptanone					CAS #: 110-43-0		
16.177	16.177 (1.071)	58	48427	2.00000	1.544	70.00- 130.00	100.00(a)
16.177	16.177 (1.071)	43	111064			0.00- 30.00	229.34
135 Cyclohexanone					CAS #: 108-94-1		
16.620	16.620 (1.101)	55	54989	2.00000	1.830	70.00- 130.00	100.00(a)
16.620	16.620 (1.101)	98	15644			0.00- 30.00	28.45
16.620	16.620 (1.101)	42	44497			0.00- 30.00	80.92
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.283	17.283 (1.145)	57	150248	2.00000	1.942	70.00- 130.00	100.00(a)
17.311	17.311 (1.146)	85	85491			21.15- 81.15	56.90

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071702.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 10:03
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	219552	131731	307373	273655	24.64
92 1,4-Difluorobenze	774915	464949	1084881	970169	25.20
125 Chlorobenzene-d5	603786	362272	845300	734809	21.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	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.

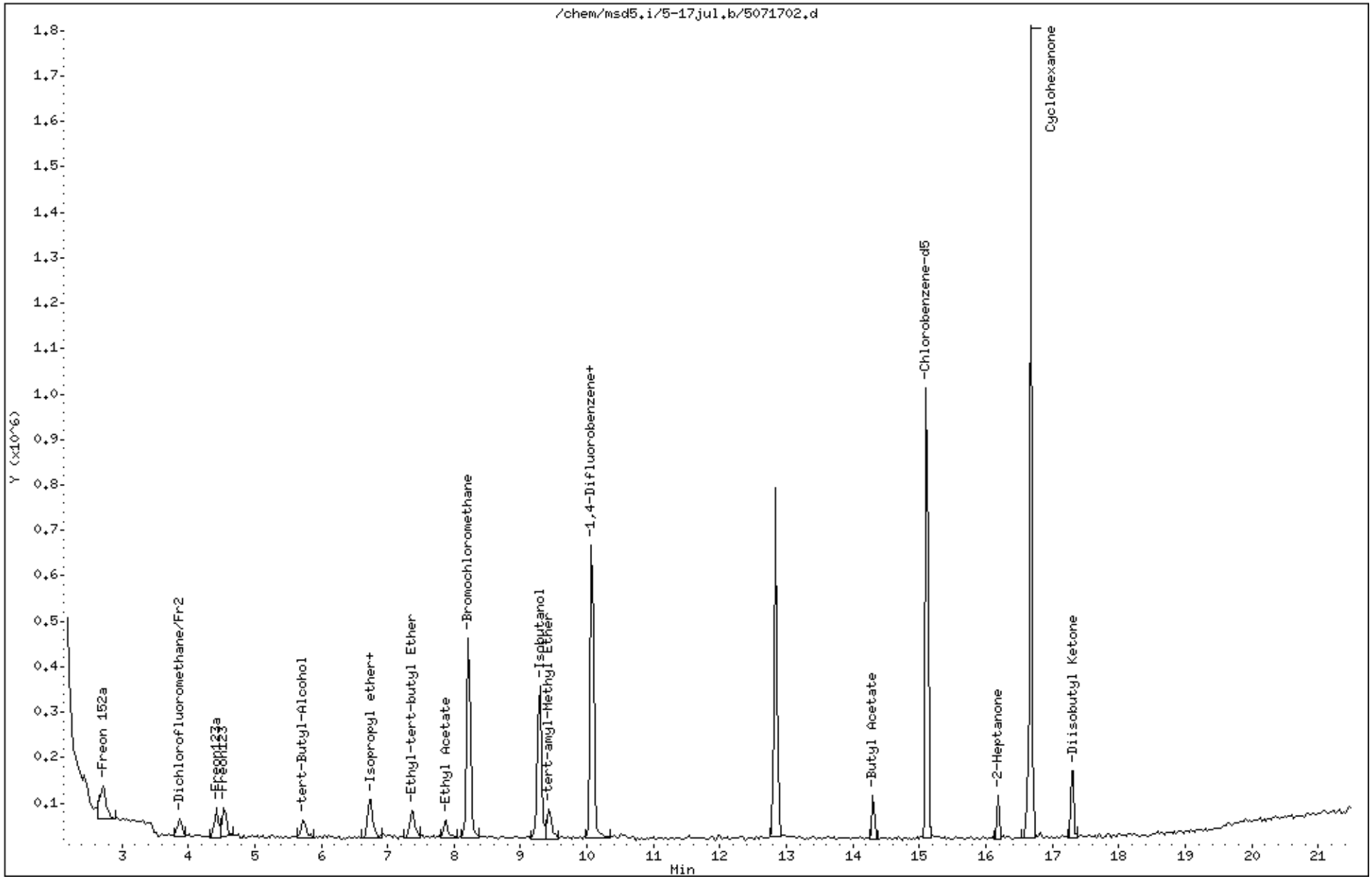
0095

Data File: /chem/msd5.i/5-17jul.b/5071702.d
Date : 17-JUL-2007 09:35
Client ID: Level 3
Sample Info: 2.0ml #1487-341

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071007.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 10-JUL-2007 15:30
Operator : db Inst ID: msd5.i
Smp Info : 2.0ml #1443-151
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:09 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 15:30 Cal File: 5071007.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	217300	25.0000		70.00- 130.00	100.00
8.214	8.214 (1.000)	128	170502			46.71- 106.71	78.46
8.187	8.187 (1.000)	49	522194			194.03- 254.03	240.31
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	832528	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	142709			0.00- 46.61	17.14
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	692667	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	424088			0.00- 30.00	61.23
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	443536	25.0000	25.072	70.00- 130.00	100.00
9.265	9.265 (1.128)	67	200276			0.00- 30.00	45.15
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	730465	25.0000	25.209	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	83763			0.00- 30.00	11.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	471053			0.00- 30.00	64.49
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	468869	25.0000	24.864	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	703609			123.91- 183.91	150.07
16.675	16.675 (1.104)	176	444817			68.17- 128.17	94.87
6 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.286)	41	74766	2.00000	2.013	70.00- 130.00	100.00
2.353	2.353 (0.286)	42	53041			0.00- 30.00	70.94
2.353	2.353 (0.286)	39	68007			0.00- 30.00	90.96
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.293)	85	148327	2.00000	2.285	70.00- 130.00	100.00
2.408	2.408 (0.293)	87	46522			0.00- 30.00	31.36
9 Freon 114					CAS #: 76-14-2		
2.546	2.546 (0.310)	135	116685	2.00000	2.060	70.00- 130.00	100.00
2.546	2.546 (0.310)	137	39874			1.51- 61.51	34.17
10 Chloromethane					CAS #: 74-87-3		
2.712	2.712 (0.330)	50	79125	2.00000	1.920	70.00- 130.00	100.00(a)
2.712	2.712 (0.330)	52	28743			0.00- 30.00	36.33
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.347)	62	71104	2.00000	2.061	70.00- 130.00	100.00
2.850	2.850 (0.347)	64	21939			0.00- 30.00	30.85
12 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.347)	54	65288	2.00000	1.996	70.00- 130.00	100.00
2.850	2.850 (0.347)	39	79004			0.00- 30.00	121.01
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.411)	94	42959	2.00000	2.056	70.00- 130.00	100.00
3.376	3.376 (0.411)	96	42765			64.14- 124.14	99.55
19 Chloroethane					CAS #: 75-00-3		
3.542	3.542 (0.431)	64	38716	2.00000	2.224	70.00- 130.00	100.00
3.542	3.542 (0.431)	49	11901			0.00- 30.00	30.74
3.569	3.569 (0.435)	66	8959			0.00- 30.00	23.14
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.468)	101	116780	2.00000	2.078	70.00- 130.00	100.00
3.846	3.846 (0.468)	103	72173			34.84- 94.84	61.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.205	4.205 (0.512)	45	22842	2.00000	2.040	70.00- 130.00	100.00
4.233	4.233 (0.515)	43	5189			0.00- 30.00	22.72
4.205	4.205 (0.512)	46	9346			0.00- 30.00	40.92
30 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.566)	151	64705	2.00000	2.135	70.00- 130.00	100.00
4.648	4.648 (0.566)	153	41997			33.68- 93.68	64.91
4.648	4.648 (0.566)	101	78634			94.70- 154.70	121.53
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.703	4.703 (0.573)	61	79768	2.00000	2.122	70.00- 130.00	100.00
4.703	4.703 (0.573)	96	37300			21.33- 81.33	46.76
4.703	4.703 (0.573)	98	26973			2.11- 62.11	33.81
32 Acetone					CAS #: 67-64-1		
4.869	4.869 (0.593)	58	21807	2.00000	1.815	70.00- 130.00	100.00(a)
4.841	4.841 (0.589)	43	87827			0.00- 30.00	402.75
36 2-Propanol					CAS #: 67-63-0		
5.062	5.062 (0.616)	45	105972	2.00000	2.046	70.00- 130.00	100.00
5.062	5.062 (0.616)	43	27473			0.00- 30.00	25.92
5.062	5.062 (0.616)	59	4495			0.00- 30.00	4.24
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.613)	76	109507	2.00000	1.991	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.647)	76	17816	2.00000	1.978	70.00- 130.00	100.00(a)
5.339	5.339 (0.650)	41	75117			0.00- 30.00	421.63
43 Methylene Chloride					CAS #: 75-09-2		
5.588	5.588 (0.680)	49	66247	2.00000	2.096	70.00- 130.00	100.00
5.588	5.588 (0.680)	84	30195			20.85- 80.85	45.58
5.588	5.588 (0.680)	51	19088			0.00- 30.00	28.81
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.717)	73	59976	2.00000	1.810	70.00- 130.00	100.00
5.892	5.892 (0.717)	57	17245			2.25- 62.25	28.75
5.892	5.892 (0.717)	41	26758			0.00- 30.00	44.61
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.724)	96	38147	2.00000	1.921	70.00- 130.00	100.00
5.947	5.947 (0.724)	61	71806			141.19- 201.19	188.23
5.975	5.975 (0.727)	98	23408			0.00- 30.00	61.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.307	6.307 (0.768)	57	75111	2.00000	1.844	70.00- 130.00	100.00
6.307	6.307 (0.768)	43	62834			0.00- 30.00	83.65
6.307	6.307 (0.768)	86	10907			0.00- 30.00	14.52
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.749	6.749 (0.822)	63	74344	2.00000	2.089	70.00- 130.00	100.00
6.749	6.749 (0.822)	65	19232			0.00- 59.97	25.87
67 2-Butanone					CAS #: 78-93-3		
7.827	7.827 (0.953)	72	10810	2.00000	1.496	70.00- 130.00	100.00
7.800	7.800 (0.950)	43	100490			715.89- 775.89	929.60
7.827	7.827 (0.953)	57	6153			0.00- 30.00	56.92
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.946)	61	48865	2.00000	1.916	70.00- 130.00	100.00
7.772	7.772 (0.946)	96	32138			26.40- 86.40	65.77
7.772	7.772 (0.946)	98	19473			6.40- 66.40	39.85
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (0.997)	42	68375	2.00000	2.053	70.00- 130.00	100.00
8.214	8.214 (1.000)	71	13834			0.00- 50.92	20.23
8.187	8.187 (0.997)	72	15017			0.00- 30.00	21.96
72 Chloroform					CAS #: 67-66-3		
8.353	8.353 (1.017)	83	58031	2.00000	1.915	70.00- 130.00	100.00
8.353	8.353 (1.017)	85	39465			34.70- 94.70	68.01
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.044)	97	72213	2.00000	2.092	70.00- 130.00	100.00
8.574	8.574 (1.044)	99	46756			33.02- 93.02	64.75
74 Cyclohexane					CAS #: 110-82-7		
8.574	8.574 (1.044)	84	36340	2.00000	1.885	70.00- 130.00	100.00
8.546	8.546 (1.040)	56	64943			142.16- 202.16	178.71
8.546	8.546 (1.040)	41	41563			87.22- 147.22	114.37
56 Vinyl Acetate					CAS #: 108-05-4		
6.832	6.832 (0.832)	86	8473	2.00000	1.856	70.00- 130.00	100.00(a)
6.804	6.804 (0.828)	43	118123			0.00- 30.00	1394.11
6.804	6.804 (0.828)	42	11178			0.00- 30.00	131.92
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.074)	119	60619	2.00000	1.766	70.00- 130.00	100.00
8.823	8.823 (1.074)	117	70044			75.04- 135.04	115.55

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.125)	57	182181	2.00000	1.986	70.00- 130.00	100.00
9.237	9.237 (1.125)	56	58524			0.00- 30.00	32.12
9.237	9.237 (1.125)	41	67676			0.00- 30.00	37.15
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	66058	2.00000	1.738	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	15812			0.00- 30.00	23.94
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.431	9.431 (0.937)	62	56115	2.00000	1.943	70.00- 130.00	100.00
9.431	9.431 (0.937)	64	19272			0.00- 30.00	34.34
90 Heptane					CAS #: 142-82-5		
9.625	9.625 (0.956)	100	12946	2.00000	2.482	70.00- 130.00	100.00
9.625	9.625 (0.956)	43	77734			0.00- 30.00	600.45
9.625	9.625 (0.956)	71	28793			0.00- 30.00	222.41
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	36542	2.00000	2.061	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	31079			67.78- 127.78	85.05
10.482	10.482 (1.041)	97	23308			34.90- 94.90	63.78
98 1,2-Dichloropropane					CAS #: 78-87-5		
11.007	11.007 (1.093)	63	26523	2.00000	1.885	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	18374			45.06- 105.06	69.28
11.007	11.007 (1.093)	41	33975			89.61- 149.61	128.10
99 1,4-Dioxane					CAS #: 123-91-1		
11.228	11.228 (1.115)	88	18949	2.00000	2.309	70.00- 130.00	100.00
11.228	11.228 (1.115)	58	20034			68.71- 128.71	105.73
11.228	11.228 (1.115)	57	8240			0.00- 30.00	43.49
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	54431	2.00000	1.940	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	32911			31.98- 91.98	60.46
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	32894	2.00000	1.821	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	13249			0.50- 60.50	40.28
12.445	12.445 (1.236)	39	33961			80.91- 140.91	103.24
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	26819	2.00000	2.085	70.00- 130.00	100.00
12.749	12.749 (1.266)	43	103065			0.00- 30.00	384.30
12.749	12.749 (1.266)	85	9643			0.00- 30.00	35.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	72679	2.00000	1.901	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	45118			29.75- 89.75	62.08
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	40366	2.00000	1.840	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	12449			0.39- 60.39	30.84
13.468	13.468 (0.892)	39	34872			62.40- 122.40	86.39
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.772	13.772 (0.912)	97	21849	2.00000	1.735	70.00- 130.00	100.00
13.772	13.772 (0.912)	99	15430			30.91- 90.91	70.62
13.772	13.772 (0.912)	83	20428			49.76- 109.76	93.50
116 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.800 (0.914)	166	36356	2.00000	2.075	70.00- 130.00	100.00
13.800	13.800 (0.914)	129	28511			53.81- 113.81	78.42
13.800	13.800 (0.914)	131	28110			52.52- 112.52	77.32
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	30991	2.00000	1.725	70.00- 130.00	100.00(a)
14.131	14.131 (0.936)	43	85015			231.54- 291.54	274.32
14.131	14.131 (0.936)	100	5512			0.00- 30.00	17.79
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	44280	2.00000	1.707	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	33007			0.00- 30.00	74.54
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	37936	2.00000	1.752	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	40887			67.68- 127.68	107.78
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	62532	2.00000	1.922	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	20988			2.43- 62.43	33.56
15.154	15.154 (1.004)	77	51711			32.38- 92.38	82.70
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	34984	2.00000	1.955	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	116604			0.00- 30.00	333.31
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	45448	2.00000	2.019	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	90204			0.00- 30.00	198.48
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	38653	2.00000	1.838	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	91963			202.47- 262.47	237.92
133 Styrene					CAS #: 100-42-5		
16.012	16.012 (1.060)	104	62796	2.00000	1.818	70.00- 130.00	100.00
16.012	16.012 (1.060)	78	37987			31.18- 91.18	60.49
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	41743	2.00000	1.851	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	18517			20.85- 80.85	44.36
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	60628	2.00000	2.084	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	36448			34.27- 94.27	60.12
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	161339	2.00000	2.095	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	44846			0.00- 58.00	27.80
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	133036	2.00000	2.040	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	51918			0.00- 30.00	39.03
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	138317	2.00000	1.921	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	57270			11.27- 71.27	41.40
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	94033	2.00000	2.181	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	59123			0.00- 30.00	62.87
17.836	17.836 (1.181)	111	42783			0.00- 30.00	45.50
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	71998	2.00000	2.016	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	44330			0.00- 30.00	61.57
17.919	17.919 (1.187)	111	34945			0.00- 30.00	48.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	104319	2.00000	1.769	70.00- 130.00	100.00
18.058	18.058 (1.196)	126	21145			0.00- 30.00	20.27
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	96267	2.00000	2.219	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	59542			32.97- 92.97	61.85
18.279	18.279 (1.211)	111	46481			17.35- 77.35	48.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	85289	2.00000	2.614	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	72353			61.02- 121.02	84.83
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	68533	2.00000	2.453	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	44975			31.22- 91.22	65.63
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	155229	2.00000	1.968	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	37471			0.00- 30.00	24.14
16.924	16.924 (1.121)	105	7032			0.00- 30.00	4.53
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	135011	2.00000	1.924	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	32518			0.00- 30.00	24.09
16.426	16.426 (1.088)	51	25012			0.00- 30.00	18.53
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	242182	2.00000	2.612	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	28110			0.00- 30.00	11.61
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.428)	43	97121	2.00000	1.994	70.00- 130.00	100.00(a)
3.514	3.514 (0.428)	57	56445			0.00- 30.00	58.12
3.514	3.514 (0.428)	72	7328			0.00- 30.00	7.55
11 Butane					CAS #: 106-97-8		
2.767	2.767 (0.337)	58	19220	2.00000	2.128	70.00- 130.00	100.00
2.767	2.767 (0.337)	43	155191			0.00- 30.00	807.45
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	38069	2.00000	1.885	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	21306			0.00- 30.00	55.97
10.703	10.703 (1.063)	55	50546			0.00- 30.00	132.77

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071007.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	217300	-7.47
92 1,4-Difluorobenze	894476	536686	1252266	832528	-6.93
125 Chlorobenzene-d5	750815	450489	1051141	692667	-7.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	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.

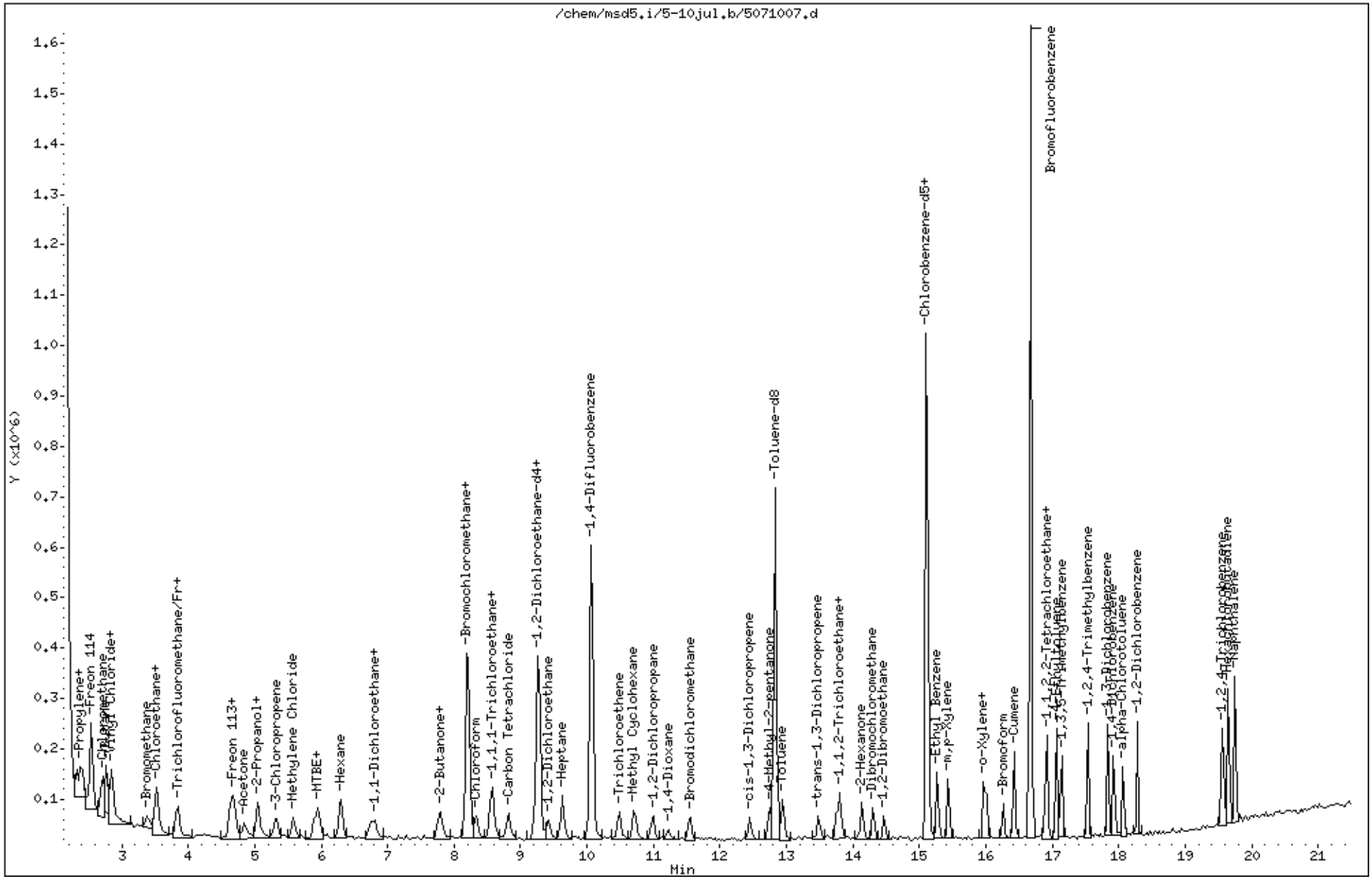
0105

Data File: /chem/msd5.i/5-10jul.b/5071007.d
Date : 10-JUL-2007 15:30
Client ID: Level 3
Sample Info: 2.0ml #1443-151

Instrument: msd5.i

Operator: db

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071008.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 10-JUL-2007 15:58
Operator : db Inst ID: msd5.i
Smp Info : 25ml #1443-151
Misc Info : 200ppbv-25ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:09 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 15:58 Cal File: 5071008.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.187	8.187 (1.000)	130	223232	25.0000		70.00- 130.00		100.00
8.187	8.187 (1.000)	128	182847			46.71- 106.71		81.91
8.187	8.187 (1.000)	49	519143			194.03- 254.03		232.56
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	865901	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	147810			0.00- 46.61		17.07
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	729173	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	445919			0.00- 30.00		61.15
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.265	9.265 (1.132)	65	442502	25.0000	24.349	70.00- 130.00		100.00
9.265	9.265 (1.132)	67	211774			0.00- 30.00		47.86
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	760107	25.0000	25.221	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	92835			0.00- 30.00		12.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	509173			0.00- 30.00	66.99
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	490650	25.0000	24.716	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	745834			123.91- 183.91	152.01
16.675	16.675 (1.104)	176	481274			68.17- 128.17	98.09
6 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	1107835	25.0000	29.039	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	742087			0.00- 30.00	66.99
2.353	2.353 (0.287)	39	736663			0.00- 30.00	66.50
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	1824263	25.0000	27.355	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	595175			0.00- 30.00	32.63
9 Freon 114					CAS #: 76-14-2		
2.519	2.519 (0.308)	135	1652213	25.0000	28.396	70.00- 130.00	100.00
2.519	2.519 (0.308)	137	547041			1.51- 61.51	33.11
10 Chloromethane					CAS #: 74-87-3		
2.657	2.657 (0.325)	50	1266047	25.0000	29.912	70.00- 130.00	100.00
2.657	2.657 (0.325)	52	368862			0.00- 30.00	29.13
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	1008496	25.0000	28.455	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	307528			0.00- 30.00	30.49
12 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.823 (0.345)	54	980323	25.0000	29.173	70.00- 130.00	100.00
2.823	2.823 (0.345)	39	1100272			0.00- 30.00	112.24
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	617720	25.0000	28.778	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	604297			64.14- 124.14	97.83
19 Chloroethane					CAS #: 75-00-3		
3.486	3.486 (0.426)	64	484250	25.0000	27.077	70.00- 130.00	100.00
3.486	3.486 (0.426)	49	151801			0.00- 30.00	31.35
3.486	3.486 (0.426)	66	134319			0.00- 30.00	27.74
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.818 (0.466)	101	1570004	25.0000	27.194	70.00- 130.00	100.00
3.818	3.818 (0.466)	103	1023461			34.84- 94.84	65.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.178	4.178 (0.510)	45	309743	25.0000	26.922	70.00- 130.00	100.00
4.178	4.178 (0.510)	43	66530			0.00- 30.00	21.48
4.178	4.178 (0.510)	46	136535			0.00- 30.00	44.08
30 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.568)	151	892998	25.0000	28.683	70.00- 130.00	100.00
4.648	4.648 (0.568)	153	559534			33.68- 93.68	62.66
4.648	4.648 (0.568)	101	1094634			94.70- 154.70	122.58
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	1058240	25.0000	27.402	70.00- 130.00	100.00
4.675	4.675 (0.571)	96	533922			21.33- 81.33	50.45
4.675	4.675 (0.571)	98	351718			2.11- 62.11	33.24
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	336477	25.0000	27.257	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	1316398			0.00- 30.00	391.23
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	1410901	25.0000	26.516	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	309723			0.00- 30.00	21.95
5.035	5.035 (0.615)	59	46853			0.00- 30.00	3.32
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	1569037	25.0000	27.768	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	249438	25.0000	26.958	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	1142389			0.00- 30.00	457.99
43 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	897151	25.0000	27.624	70.00- 130.00	100.00
5.560	5.560 (0.679)	84	432011			20.85- 80.85	48.15
5.560	5.560 (0.679)	51	263740			0.00- 30.00	29.40
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	1088552	25.0000	31.976	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	343842			2.25- 62.25	31.59
5.892	5.892 (0.720)	41	382577			0.00- 30.00	35.15
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	542034	25.0000	26.570	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	949850			141.19- 201.19	175.24
5.947	5.947 (0.726)	98	345727			0.00- 30.00	63.78

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
51 Hexane						CAS #: 110-54-3	
6.279	6.279 (0.767)	57	1137646	25.0000	27.196	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	865934			0.00- 30.00	76.12
6.307	6.307 (0.770)	86	162374			0.00- 30.00	14.27
55 1,1-Dichloroethane						CAS #: 75-34-3	
6.721	6.721 (0.821)	63	1002420	25.0000	27.424	70.00- 130.00	100.00
6.721	6.721 (0.821)	65	281256			0.00- 59.97	28.06
67 2-Butanone						CAS #: 78-93-3	
7.800	7.800 (0.953)	72	195547	25.0000	26.350	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	1422536			715.89- 775.89	727.47
7.800	7.800 (0.953)	57	90544			0.00- 30.00	46.30
66 cis-1,2-Dichloroethene						CAS #: 156-59-2	
7.772	7.772 (0.949)	61	725776	25.0000	27.694	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	435988			26.40- 86.40	60.07
7.772	7.772 (0.949)	98	281243			6.40- 66.40	38.75
70 Tetrahydrofuran						CAS #: 109-99-9	
8.187	8.187 (1.000)	42	814419	25.0000	23.803	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	164879			0.00- 50.92	20.24
8.187	8.187 (1.000)	72	180517			0.00- 30.00	22.17
72 Chloroform						CAS #: 67-66-3	
8.325	8.325 (1.017)	83	853414	25.0000	27.414	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	531761			34.70- 94.70	62.31
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
8.574	8.574 (1.047)	97	966191	25.0000	27.247	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	611127			33.02- 93.02	63.25
74 Cyclohexane						CAS #: 110-82-7	
8.546	8.546 (1.044)	84	545396	25.0000	27.539	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	938841			142.16- 202.16	172.14
8.546	8.546 (1.044)	41	614750			87.22- 147.22	112.72
56 Vinyl Acetate						CAS #: 108-05-4	
6.804	6.804 (0.831)	86	124808	25.0000	26.610	70.00- 130.00	100.00
6.777	6.777 (0.828)	43	1966696			0.00- 30.00	1575.78
6.804	6.804 (0.831)	42	153842			0.00- 30.00	123.26
77 Carbon Tetrachloride						CAS #: 56-23-5	
8.823	8.823 (1.078)	119	971939	25.0000	27.557	70.00- 130.00	100.00
8.823	8.823 (1.078)	117	995646			75.04- 135.04	102.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	2568938	25.0000	27.262	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	848037			0.00- 30.00	33.01
9.237	9.237 (1.128)	41	935219			0.00- 30.00	36.40
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	1035909	25.0000	26.200	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	248757			0.00- 30.00	24.01
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	824917	25.0000	27.464	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	248304			0.00- 30.00	30.10
90 Heptane					CAS #: 142-82-5		
9.625	9.625 (0.956)	100	143586	25.0000	26.467	70.00- 130.00	100.00
9.625	9.625 (0.956)	43	1168363			0.00- 30.00	813.70
9.625	9.625 (0.956)	71	354626			0.00- 30.00	246.98
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	479866	25.0000	26.028	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	460818			67.78- 127.78	96.03
10.482	10.482 (1.041)	97	300657			34.90- 94.90	62.65
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	393124	25.0000	26.864	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	282371			45.06- 105.06	71.83
10.979	10.979 (1.091)	41	456097			89.61- 149.61	116.02
99 1,4-Dioxane					CAS #: 123-91-1		
11.228	11.228 (1.115)	88	203363	25.0000	23.829	70.00- 130.00	100.00
11.201	11.201 (1.113)	58	215810			68.71- 128.71	106.12
11.201	11.201 (1.113)	57	79107			0.00- 30.00	38.90
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	782427	25.0000	26.819	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	507015			31.98- 91.98	64.80
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	494755	25.0000	26.335	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	154081			0.50- 60.50	31.14
12.445	12.445 (1.236)	39	542282			80.91- 140.91	109.61
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	359944	25.0000	26.907	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	1305075			0.00- 30.00	362.58
12.749	12.749 (1.266)	85	128449			0.00- 30.00	35.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.943	12.943 (1.286)	91	1029932	25.0000	25.903	70.00- 130.00	100.00
12.943	12.943 (1.286)	92	610831			29.75- 89.75	59.31
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	591682	25.0000	25.618	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	178962			0.39- 60.39	30.25
13.468	13.468 (0.892)	39	538998			62.40- 122.40	91.10
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	350473	25.0000	26.438	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	220524			30.91- 90.91	62.92
13.744	13.744 (0.910)	83	280988			49.76- 109.76	80.17
116 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.800 (0.914)	166	501373	25.0000	27.186	70.00- 130.00	100.00
13.800	13.800 (0.914)	129	427833			53.81- 113.81	85.33
13.800	13.800 (0.914)	131	422163			52.52- 112.52	84.20
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	495695	25.0000	26.216	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	1284516			231.54- 291.54	259.13
14.131	14.131 (0.936)	100	81519			0.00- 30.00	16.45
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	758318	25.0000	27.772	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	585411			0.00- 30.00	77.20
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	620006	25.0000	27.193	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	581394			67.68- 127.68	93.77
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	917344	25.0000	26.791	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	290673			2.43- 62.43	31.69
15.154	15.154 (1.004)	77	584858			32.38- 92.38	63.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	499813	25.0000	26.531	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	1652644			0.00- 30.00	330.65
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	626920	25.0000	26.456	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	1371485			0.00- 30.00	218.77
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	562112	25.0000	25.397	70.00- 130.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	1324351			202.47- 262.47	235.60
133 Styrene					CAS #: 100-42-5		
16.012	16.012 (1.060)	104	943056	25.0000	25.938	70.00- 130.00	100.00
16.012	16.012 (1.060)	78	558953			31.18- 91.18	59.27
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	656138	25.0000	27.634	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	347777			20.85- 80.85	53.00
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	796784	25.0000	26.016	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	522945			34.27- 94.27	65.63
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	2180788	25.0000	26.898	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	614037			0.00- 58.00	28.16
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	1790535	25.0000	26.089	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	798902			0.00- 30.00	44.62
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	2079143	25.0000	27.434	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	859843			11.27- 71.27	41.36
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	1171142	25.0000	25.806	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	742641			0.00- 30.00	63.41
17.836	17.836 (1.181)	111	568375			0.00- 30.00	48.53
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	965271	25.0000	25.674	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	599716			0.00- 30.00	62.13
17.919	17.919 (1.187)	111	457687			0.00- 30.00	47.42
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	1605117	25.0000	25.861	70.00- 130.00	100.00
18.058	18.058 (1.196)	126	282502			0.00- 30.00	17.60
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	1197592	25.0000	26.225	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	738021			32.97- 92.97	61.63
18.279	18.279 (1.211)	111	562120			17.35- 77.35	46.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	767914	25.0000	22.357	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	757836			61.02- 121.02	98.69
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	722430	25.0000	24.561	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	459184			31.22- 91.22	63.56
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	2295039	25.0000	27.634	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	520493			0.00- 30.00	22.68
16.924	16.924 (1.121)	105	87661			0.00- 30.00	3.82
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	1932484	25.0000	26.155	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	491618			0.00- 30.00	25.44
16.426	16.426 (1.088)	51	334837			0.00- 30.00	17.33
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	2291614	25.0000	23.478	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	290222			0.00- 30.00	12.66
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	1417801	25.0000	28.340	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	826651			0.00- 30.00	58.31
3.514	3.514 (0.429)	72	71534			0.00- 30.00	5.05
11 Butane					CAS #: 106-97-8		
2.740	2.740 (0.335)	58	263434	25.0000	28.389	70.00- 130.00	100.00
2.740	2.740 (0.335)	43	2165106			0.00- 30.00	821.88
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	587375	25.0000	27.967	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	288878			0.00- 30.00	49.18
10.703	10.703 (1.063)	55	783822			0.00- 30.00	133.44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071008.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-25ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	223232	-4.94
92 1,4-Difluorobenze	894476	536686	1252266	865901	-3.19
125 Chlorobenzene-d5	750815	450489	1051141	729173	-2.88

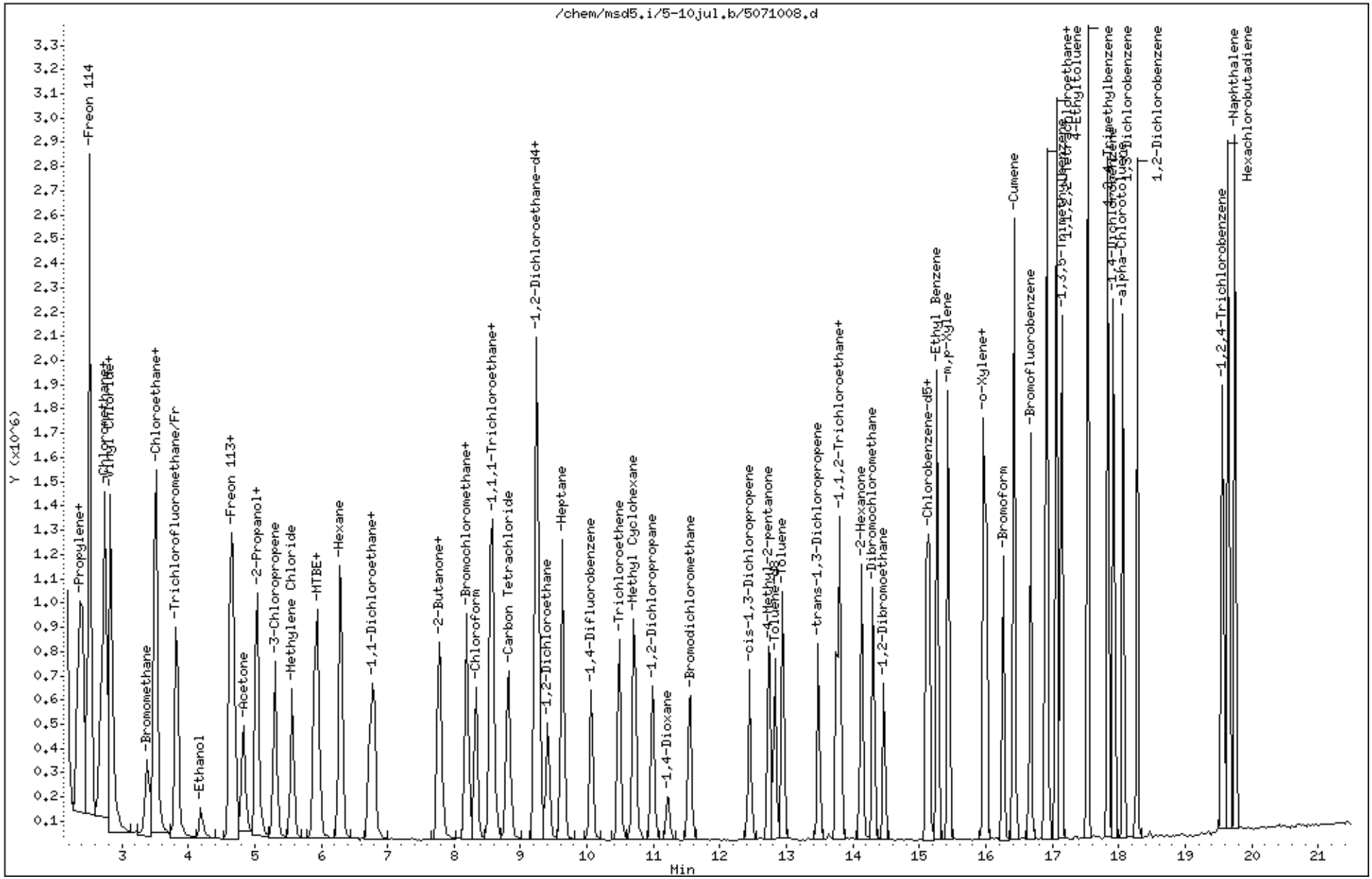
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-10jul.b/5071008.d
Date : 10-JUL-2007 15:58
Client ID: Level 4
Sample Info: 25ml #1443-151

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

Column phase: RTx-624



0115

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071707.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 17-JUL-2007 13:58
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1487-336
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 16:00 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 13:58 Cal File: 5071707.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp15b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	198564	25.0000		70.00- 130.00	100.00
8.187	8.187 (1.000)	128	158973			50.06- 110.06	80.06
8.187	8.187 (1.000)	49	434042			188.59- 248.59	218.59
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	742516	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	124590			0.00- 46.78	16.78
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	579346	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	358254			0.00- 30.00	61.84
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.717	7.717 (0.943)	77	1154238	50.0000	61.831	70.00- 130.00	100.00
7.717	7.717 (0.943)	79	357418			0.97- 60.97	30.97
7.717	7.717 (0.943)	97	207321			0.00- 30.00	17.96
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.878	8.878 (1.084)	110	305669	50.0000	49.193	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1-Dichloropropene (continued)							
8.878	8.878 (1.084)	75	885104			0.00- 30.00	289.56
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.293	15.293 (1.013)	131	785519	50.0000	54.066	70.00- 130.00	100.00
15.293	15.293 (1.013)	117	453286			0.00- 30.00	57.71
15.293	15.293 (1.013)	95	360144			0.00- 30.00	45.85
137 Bromobenzene					CAS #: 108-86-1		
16.841	16.841 (1.115)	156	698186	50.0000	48.104	70.00- 130.00	100.00
16.841	16.841 (1.115)	77	1270221			151.93- 211.93	181.93
16.841	16.841 (1.115)	158	702619			0.00- 30.00	100.63
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.952	16.952 (1.123)	110	477183	50.0000	53.843	70.00- 130.00	100.00
16.952	16.952 (1.123)	61	346971			0.00- 30.00	72.71
16.952	16.952 (1.123)	112	304691			0.00- 30.00	63.85
140 2-Chlorotoluene					CAS #: 95-49-8		
17.062	17.062 (1.130)	126	611192	50.0000	51.450	70.00- 130.00	100.00
17.035	17.035 (1.128)	91	1961510			290.93- 350.93	320.93
17.035	17.035 (1.128)	65	238891			0.00- 30.00	39.09
143 4-Chlorotoluene					CAS #: 106-43-4		
17.173	17.173 (1.137)	126	583682	50.0000	51.168	70.00- 130.00	100.00
17.173	17.173 (1.137)	91	2039599			319.44- 379.44	349.44
17.173	17.173 (1.137)	63	370462			0.00- 30.00	63.47
149 tert-Butylbenzene					CAS #: 98-06-6		
17.477	17.477 (1.157)	119	2445485	50.0000	53.643	70.00- 130.00	100.00
17.477	17.477 (1.157)	134	539995			0.00- 52.08	22.08
17.477	17.477 (1.157)	91	1799664			0.00- 30.00	73.59
150 Pentachloroethane					CAS #: 76-01-7		
17.532	17.532 (1.161)	167	764381	50.0000	52.941	70.00- 130.00	100.00
17.532	17.532 (1.161)	117	765003			0.00- 30.00	100.08
151 sec-Butylbenzene					CAS #: 135-98-8		
17.698	17.698 (1.172)	105	3329916	50.0000	53.040	70.00- 130.00	100.00
17.698	17.698 (1.172)	134	686736			0.00- 50.62	20.62
17.698	17.698 (1.172)	91	576329			0.00- 30.00	17.31
153 p-Cymene					CAS #: 99-87-6		
17.836	17.836 (1.181)	134	914228	50.0000	52.300	70.00- 130.00	100.00
17.836	17.836 (1.181)	119	3792613			384.84- 444.84	414.84
17.836	17.836 (1.181)	91	1004072			0.00- 30.00	109.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.947	17.947 (1.189)	120	1097816	50.0000	54.523	70.00- 130.00	100.00
17.947	17.947 (1.189)	105	2900671			234.22- 294.22	264.22
17.947	17.947 (1.189)	77	385155			0.00- 30.00	35.08
158 Butylbenzene					CAS #: 104-51-8		
18.223	18.223 (1.207)	134	838101	50.0000	54.269	70.00- 130.00	100.00
18.223	18.223 (1.207)	91	2701578			292.35- 352.35	322.35
18.223	18.223 (1.207)	92	1450903			0.00- 30.00	173.12
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.970	18.970 (1.256)	157	690833	50.0000	49.104	70.00- 130.00	100.00
18.942	18.942 (1.255)	75	812020			87.54- 147.54	117.54
18.970	18.970 (1.256)	155	539347			0.00- 30.00	78.07

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071707.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 13:58
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	198564	119138	277990	198564	0.00
92 1,4-Difluorobenze	742516	445510	1039522	742516	0.00
125 Chlorobenzene-d5	579346	347608	811084	579346	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

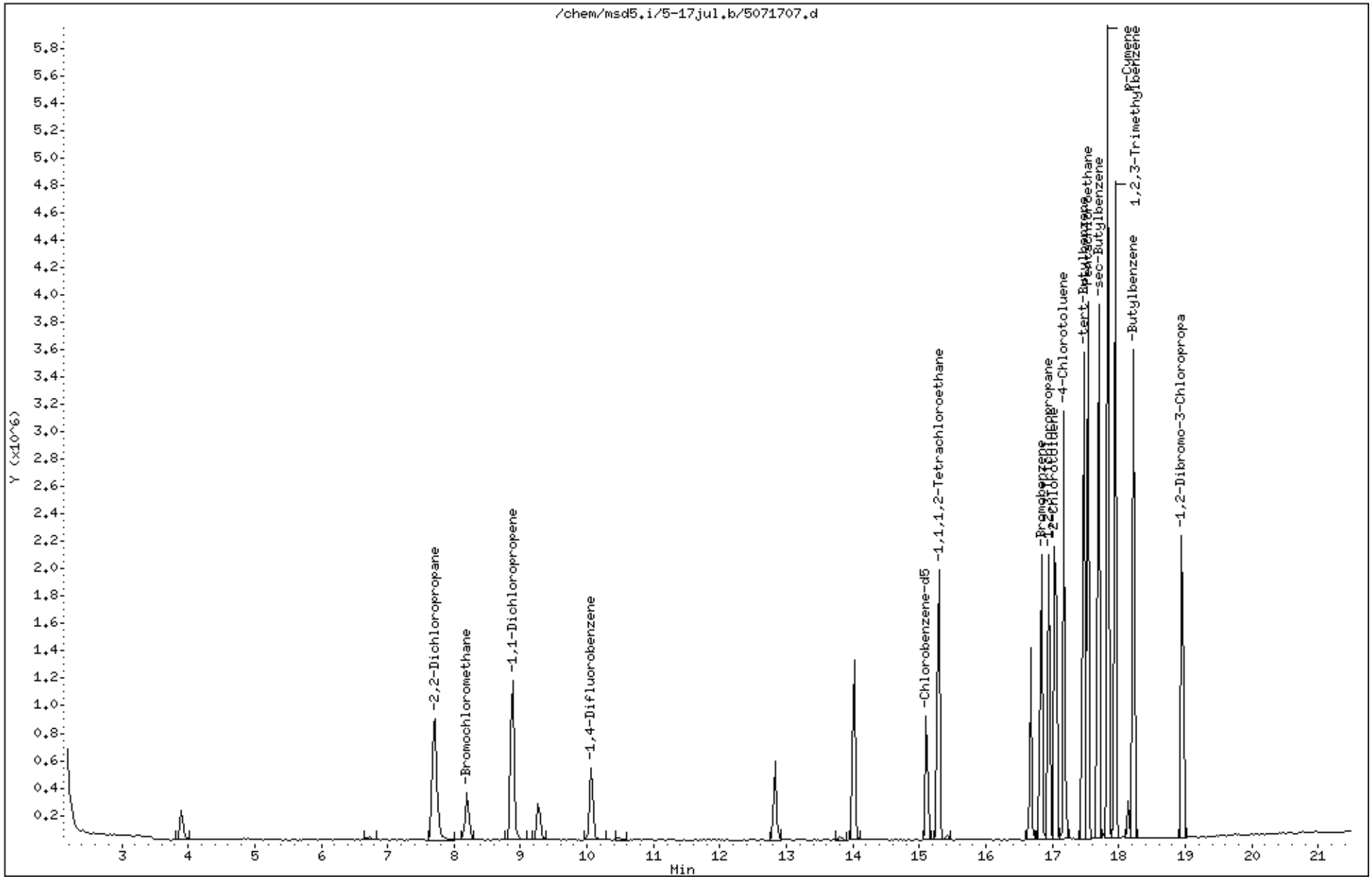
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0120

Data File: /chem/msd5.i/5-17jul.b/5071707.d
Date : 17-JUL-2007 13:58
Client ID: Level 5
Sample Info: 50ml #1487-336

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071703.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 17-JUL-2007 10:03
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1487-341
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 15:56 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 13:58 Cal File: 5071707.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	219552	25.0000		70.00- 130.00	100.00
8.187	8.187 (1.000)	128	164697			45.02- 105.02	75.02
8.187	8.187 (1.000)	49	486791			191.72- 251.72	221.72
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	774915	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	143983			0.00- 48.58	18.58
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	603786	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	390628			0.00- 30.00	64.70
3 Freon 152a					CAS #: 75-37-6		
2.353	2.353 (0.287)	65	1145418	50.0000	49.515	70.00- 130.00	100.00
2.408	2.408 (0.294)	51	6680252			0.00- 30.00	583.22
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.818	3.818 (0.466)	67	2129358	50.0000	52.553	70.00- 130.00	100.00(T)
3.818	3.818 (0.466)	69	639506			0.00- 30.00	30.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21 (continued)							
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
22 Freon123a					CAS #: 354-23-4		
4.399	4.399 (0.537)	117	1234379	50.0000	54.931	70.00- 130.00	100.00
4.399	4.399 (0.537)	67	1495431			0.00- 30.00	121.15
24 Freon123					CAS #: 306-83-2		
4.509	4.509 (0.551)	83	1873735	50.0000	54.469	70.00- 130.00	100.00
4.509	4.509 (0.551)	133	381661			0.00- 30.00	20.37
4.509	4.509 (0.551)	85	1272628			0.00- 30.00	67.92
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.698	5.698 (0.696)	59	1391135	50.0000	50.557	70.00- 130.00	100.00
5.698	5.698 (0.696)	41	408566			0.00- 30.00	29.37
5.698	5.698 (0.696)	57	160592			0.00- 30.00	11.54
49 Isopropyl ether					CAS #: 108-20-3		
6.721	6.721 (0.821)	45	4924797	50.0000	51.898	70.00- 130.00	100.00
6.721	6.721 (0.821)	87	836493			0.00- 30.00	16.99
6.721	6.721 (0.821)	59	433706			0.00- 30.00	8.81
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.357	7.357 (0.899)	59	3643382	50.0000	53.586	70.00- 130.00	100.00
7.357	7.357 (0.899)	87	1157772			0.00- 30.00	31.78
7.357	7.357 (0.899)	41	838455			0.00- 30.00	23.01
61 Ethyl Acetate					CAS #: 141-78-6		
7.855	7.855 (0.959)	70	205636	50.0000	55.483	70.00- 130.00	100.00
7.855	7.855 (0.959)	43	3258717			0.00- 30.00	1584.70
7.855	7.855 (0.959)	61	308899			0.00- 30.00	150.22
76 Isobutanol					CAS #: 78-83-1		
9.210	9.210 (0.915)	43	1073691	50.0000	55.669	70.00- 130.00	100.00
9.210	9.210 (0.915)	41	807126			0.00- 30.00	75.17
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.431	9.431 (1.152)	73	2112769	50.0000	52.981	70.00- 130.00	100.00
9.403	9.403 (1.149)	87	544598			0.00- 30.00	25.78
9.403	9.403 (1.149)	55	883477			0.00- 30.00	41.82
118 Butyl Acetate					CAS #: 123-86-4		
14.297	14.297 (1.420)	56	1013016	50.0000	55.343	70.00- 130.00	100.00
14.297	14.297 (1.420)	73	259173			0.00- 30.00	25.58
14.297	14.297 (1.420)	43	3049093			0.00- 30.00	300.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
131 2-Heptanone					CAS #: 110-43-0		
16.177	16.177 (1.071)	58	1461530	50.0000	56.723	70.00- 130.00	100.00
16.177	16.177 (1.071)	43	3480238			0.00- 30.00	238.12
135 Cyclohexanone					CAS #: 108-94-1		
16.620	16.620 (1.101)	55	1280859	50.0000	51.863	70.00- 130.00	100.00
16.620	16.620 (1.101)	98	384282			0.00- 30.00	30.00
16.620	16.620 (1.101)	42	1195672			0.00- 30.00	93.35
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.283	17.283 (1.145)	57	3288458	50.0000	51.722	70.00- 130.00	100.00
17.311	17.311 (1.146)	85	1681975			21.15- 81.15	51.15

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071703.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 10:03
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	219552	131731	307373	219552	0.00
92 1,4-Difluorobenze	774915	464949	1084881	774915	0.00
125 Chlorobenzene-d5	603786	362272	845300	603786	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	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.

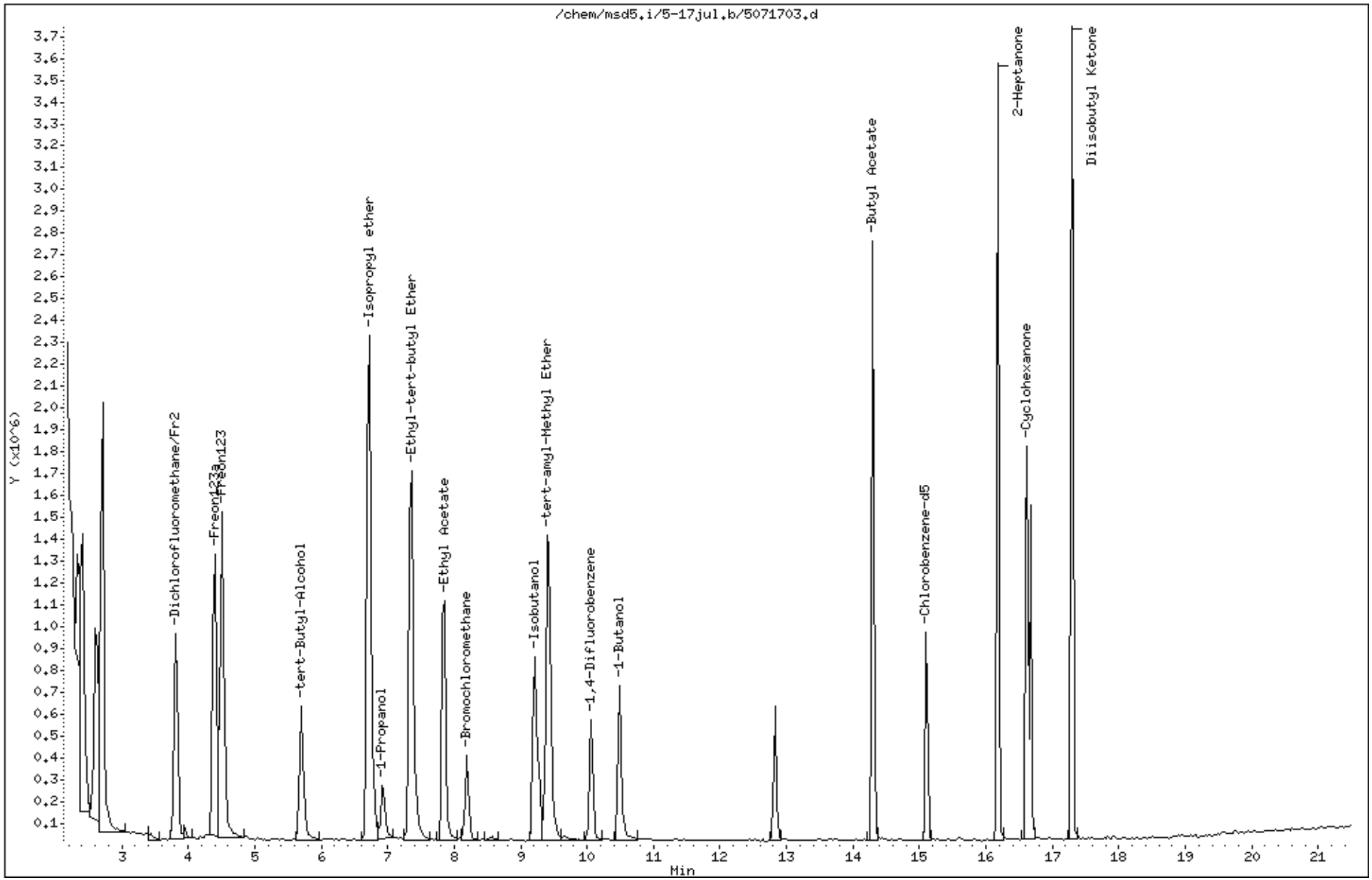
0125

Data File: /chem/msd5.i/5-17jul.b/5071703.d
Date : 17-JUL-2007 10:03
Client ID: Level 5
Sample Info: 50ml #1487-341

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071009.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 10-JUL-2007 16:27
Operator : db Inst ID: msd5.i
Smp Info : 50ml #1443-151
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:09 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 16:27 Cal File: 5071009.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	234839	25.0000		70.00- 130.00	100.00
8.187	8.187 (1.000)	128	180147			46.71- 106.71	76.71
8.187	8.187 (1.000)	49	526105			194.03- 254.03	224.03
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	894476	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	148531			0.00- 46.61	16.61
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	750815	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	453227			0.00- 30.00	60.36
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	479307	25.0000	25.070	70.00- 130.00	100.00
9.265	9.265 (1.132)	67	247157			0.00- 30.00	51.57
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	772643	25.0000	24.818	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	93805			0.00- 30.00	12.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	525952			0.00- 30.00	68.07
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.675	16.675 (1.104)	174	503206	25.0000	24.618	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	774462			123.91- 183.91	153.91
16.675	16.675 (1.104)	176	493988			68.17- 128.17	98.17
6 Propylene						CAS #: 115-07-1	
2.353	2.353 (0.287)	41	2075994	50.0000	51.727	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	1382662			0.00- 30.00	66.60
2.353	2.353 (0.287)	39	1417429			0.00- 30.00	68.28
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.408	2.408 (0.294)	85	3493931	50.0000	49.803	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	1132111			0.00- 30.00	32.40
9 Freon 114						CAS #: 76-14-2	
2.518	2.518 (0.308)	135	3132657	50.0000	51.180	70.00- 130.00	100.00
2.518	2.518 (0.308)	137	987219			1.51- 61.51	31.51
10 Chloromethane						CAS #: 74-87-3	
2.684	2.684 (0.328)	50	2350564	50.0000	52.790	70.00- 130.00	100.00
2.684	2.684 (0.328)	52	695943			0.00- 30.00	29.61
13 Vinyl Chloride						CAS #: 75-01-4	
2.850	2.850 (0.348)	62	1891619	50.0000	50.735	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	585945			0.00- 30.00	30.98
12 1,3-Butadiene						CAS #: 106-99-0	
2.823	2.823 (0.345)	54	1782940	50.0000	50.435	70.00- 130.00	100.00
2.823	2.823 (0.345)	39	1937015			0.00- 30.00	108.64
15 Bromomethane						CAS #: 74-83-9	
3.376	3.376 (0.412)	94	1186733	50.0000	52.554	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	1117246			64.14- 124.14	94.14
19 Chloroethane						CAS #: 75-00-3	
3.486	3.486 (0.426)	64	907019	50.0000	48.210	70.00- 130.00	100.00
3.514	3.514 (0.429)	49	280930			0.00- 30.00	30.97
3.514	3.514 (0.429)	66	244476			0.00- 30.00	26.95
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.818	3.818 (0.466)	101	3024861	50.0000	49.803	70.00- 130.00	100.00
3.818	3.818 (0.466)	103	1961248			34.84- 94.84	64.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.205	4.205 (0.514)	45	614002	50.0000	50.730	70.00- 130.00	100.00
4.205	4.205 (0.514)	43	128705			0.00- 30.00	20.96
4.205	4.205 (0.514)	46	266515			0.00- 30.00	43.41
30 Freon 113					CAS #: 76-13-1		
4.647	4.647 (0.568)	151	1673006	50.0000	51.081	70.00- 130.00	100.00
4.647	4.647 (0.568)	153	1065407			33.68- 93.68	63.68
4.647	4.647 (0.568)	101	2086288			94.70- 154.70	124.70
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	2007552	50.0000	49.414	70.00- 130.00	100.00
4.675	4.675 (0.571)	96	1030455			21.33- 81.33	51.33
4.675	4.675 (0.571)	98	644718			2.11- 62.11	32.11
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	664092	50.0000	51.137	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	2554652			0.00- 30.00	384.68
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	2795284	50.0000	49.936	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	618296			0.00- 30.00	22.12
5.035	5.035 (0.615)	59	87772			0.00- 30.00	3.14
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	3059290	50.0000	51.466	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	503051	50.0000	51.681	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	2246439			0.00- 30.00	446.56
43 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	1684220	50.0000	49.296	70.00- 130.00	100.00
5.560	5.560 (0.679)	84	856435			20.85- 80.85	50.85
5.560	5.560 (0.679)	51	509746			0.00- 30.00	30.27
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	1962799	50.0000	54.808	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	632974			2.25- 62.25	32.25
5.892	5.892 (0.720)	41	704308			0.00- 30.00	35.88
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	1068446	50.0000	49.786	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	1829123			141.19- 201.19	171.19
5.947	5.947 (0.726)	98	676293			0.00- 30.00	63.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	2202275	50.0000	50.044	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	1708985			0.00- 30.00	77.60
6.306	6.306 (0.770)	86	306823			0.00- 30.00	13.93
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	1921863	50.0000	49.979	70.00- 130.00	100.00
6.721	6.721 (0.821)	65	575903			0.00- 59.97	29.97
67 2-Butanone					CAS #: 78-93-3		
7.799	7.799 (0.953)	72	379073	50.0000	48.555	70.00- 130.00	100.00
7.799	7.799 (0.953)	43	2827462			715.89- 775.89	745.89
7.799	7.799 (0.953)	57	181407			0.00- 30.00	47.86
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	1471618	50.0000	53.379	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	829931			26.40- 86.40	56.40
7.772	7.772 (0.949)	98	535601			6.40- 66.40	36.40
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	1622629	50.0000	45.080	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	339419			0.00- 50.92	20.92
8.187	8.187 (1.000)	72	359384			0.00- 30.00	22.15
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	1649686	50.0000	50.373	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	1067347			34.70- 94.70	64.70
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	1913436	50.0000	51.293	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	1205871			33.02- 93.02	63.02
74 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	1058727	50.0000	50.817	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	1822706			142.16- 202.16	172.16
8.546	8.546 (1.044)	41	1241028			87.22- 147.22	117.22
56 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.831)	86	246872	50.0000	50.034	70.00- 130.00	100.00
6.776	6.776 (0.828)	43	3963506			0.00- 30.00	1605.49
6.776	6.776 (0.828)	42	319596			0.00- 30.00	129.46
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.822	8.822 (1.078)	119	1894259	50.0000	51.053	70.00- 130.00	100.00
8.822	8.822 (1.078)	117	1989791			75.04- 135.04	105.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	5058262	50.0000	51.026	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	1649975			0.00- 30.00	32.62
9.237	9.237 (1.128)	41	1813396			0.00- 30.00	35.85
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	2070422	50.0000	50.692	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	488776			0.00- 30.00	23.61
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	1626768	50.0000	52.431	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	499214			0.00- 30.00	30.69
90 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	273434	50.0000	48.792	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	2366945			0.00- 30.00	865.64
9.624	9.624 (0.956)	71	699216			0.00- 30.00	255.72
93 Trichloroethene					CAS #: 79-01-6		
10.481	10.481 (1.041)	95	907220	50.0000	47.636	70.00- 130.00	100.00
10.481	10.481 (1.041)	130	887078			67.78- 127.78	97.78
10.481	10.481 (1.041)	97	588759			34.90- 94.90	64.90
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	748654	50.0000	49.525	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	561909			45.06- 105.06	75.06
10.979	10.979 (1.091)	41	895468			89.61- 149.61	119.61
99 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	444546	50.0000	50.426	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	438819			68.71- 128.71	98.71
11.200	11.200 (1.113)	57	151725			0.00- 30.00	34.13
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	1561639	50.0000	51.817	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	967903			31.98- 91.98	61.98
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	997712	50.0000	51.410	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	304255			0.50- 60.50	30.50
12.445	12.445 (1.236)	39	1106556			80.91- 140.91	110.91
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	729957	50.0000	52.824	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	2614478			0.00- 30.00	358.17
12.749	12.749 (1.266)	85	262286			0.00- 30.00	35.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	2073303	50.0000	50.478	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	1238864			29.75- 89.75	59.75
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	1179882	50.0000	49.613	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	358571			0.39- 60.39	30.39
13.468	13.468 (0.892)	39	1090188			62.40- 122.40	92.40
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	733706	50.0000	53.751	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	446871			30.91- 90.91	60.91
13.744	13.744 (0.910)	83	585200			49.76- 109.76	79.76
116 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	977995	50.0000	51.501	70.00- 130.00	100.00
13.799	13.799 (0.914)	129	819670			53.81- 113.81	83.81
13.799	13.799 (0.914)	131	807003			52.52- 112.52	82.52
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	998377	50.0000	51.280	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	2611183			231.54- 291.54	261.54
14.131	14.131 (0.936)	100	158802			0.00- 30.00	15.91
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1469613	50.0000	52.270	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	1140851			0.00- 30.00	77.63
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	1226226	50.0000	52.231	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	1197793			67.68- 127.68	97.68
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1801610	50.0000	51.100	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	584352			2.43- 62.43	32.43
15.154	15.154 (1.004)	77	1123801			32.38- 92.38	62.38
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	997416	50.0000	51.418	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	3275715			0.00- 30.00	328.42
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	1255932	50.0000	51.473	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	2780629			0.00- 30.00	221.40
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	1145245	50.0000	50.253	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	2662361			202.47- 262.47	232.47
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	1904395	50.0000	50.870	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	1165177			31.18- 91.18	61.18
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	1342862	50.0000	54.925	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	682869			20.85- 80.85	50.85
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1574427	50.0000	49.925	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	1011841			34.27- 94.27	64.27
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	4450746	50.0000	53.314	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	1246272			0.00- 58.00	28.00
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	3775786	50.0000	53.430	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	1655963			0.00- 30.00	43.86
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	4089447	50.0000	52.404	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	1687698			11.27- 71.27	41.27
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	2402394	50.0000	51.410	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	1484328			0.00- 30.00	61.79
17.836	17.836 (1.181)	111	1104258			0.00- 30.00	45.96
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1942731	50.0000	50.182	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	1228705			0.00- 30.00	63.25
17.919	17.919 (1.187)	111	946609			0.00- 30.00	48.73
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.057 (1.196)	91	3498242	50.0000	54.738	70.00- 130.00	100.00
18.057	18.057 (1.196)	126	593512			0.00- 30.00	16.97
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	2404727	50.0000	51.141	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	1514323			32.97- 92.97	62.97
18.279	18.279 (1.211)	111	1138676			17.35- 77.35	47.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1751688	50.0000	49.529	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	1594413			61.02- 121.02	91.02
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1493146	50.0000	49.301	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	914122			31.22- 91.22	61.22
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	4615020	50.0000	53.967	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	1012647			0.00- 30.00	21.94
16.924	16.924 (1.121)	105	188031			0.00- 30.00	4.07
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	3943383	50.0000	51.834	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	1029995			0.00- 30.00	26.12
16.426	16.426 (1.088)	51	638856			0.00- 30.00	16.20
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	4907073	50.0000	48.825	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	620331			0.00- 30.00	12.64
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	2699812	50.0000	51.299	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	1581439			0.00- 30.00	58.58
3.514	3.514 (0.429)	72	145130			0.00- 30.00	5.38
11 Butane					CAS #: 106-97-8		
2.767	2.767 (0.338)	58	507622	50.0000	51.999	70.00- 130.00	100.00
2.767	2.767 (0.338)	43	4046093			0.00- 30.00	797.07
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	1179942	50.0000	54.387	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	593887			0.00- 30.00	50.33
10.703	10.703 (1.063)	55	1508633			0.00- 30.00	127.86

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071009.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	234839	0.00
92 1,4-Difluorobenze	894476	536686	1252266	894476	0.00
125 Chlorobenzene-d5	750815	450489	1051141	750815	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

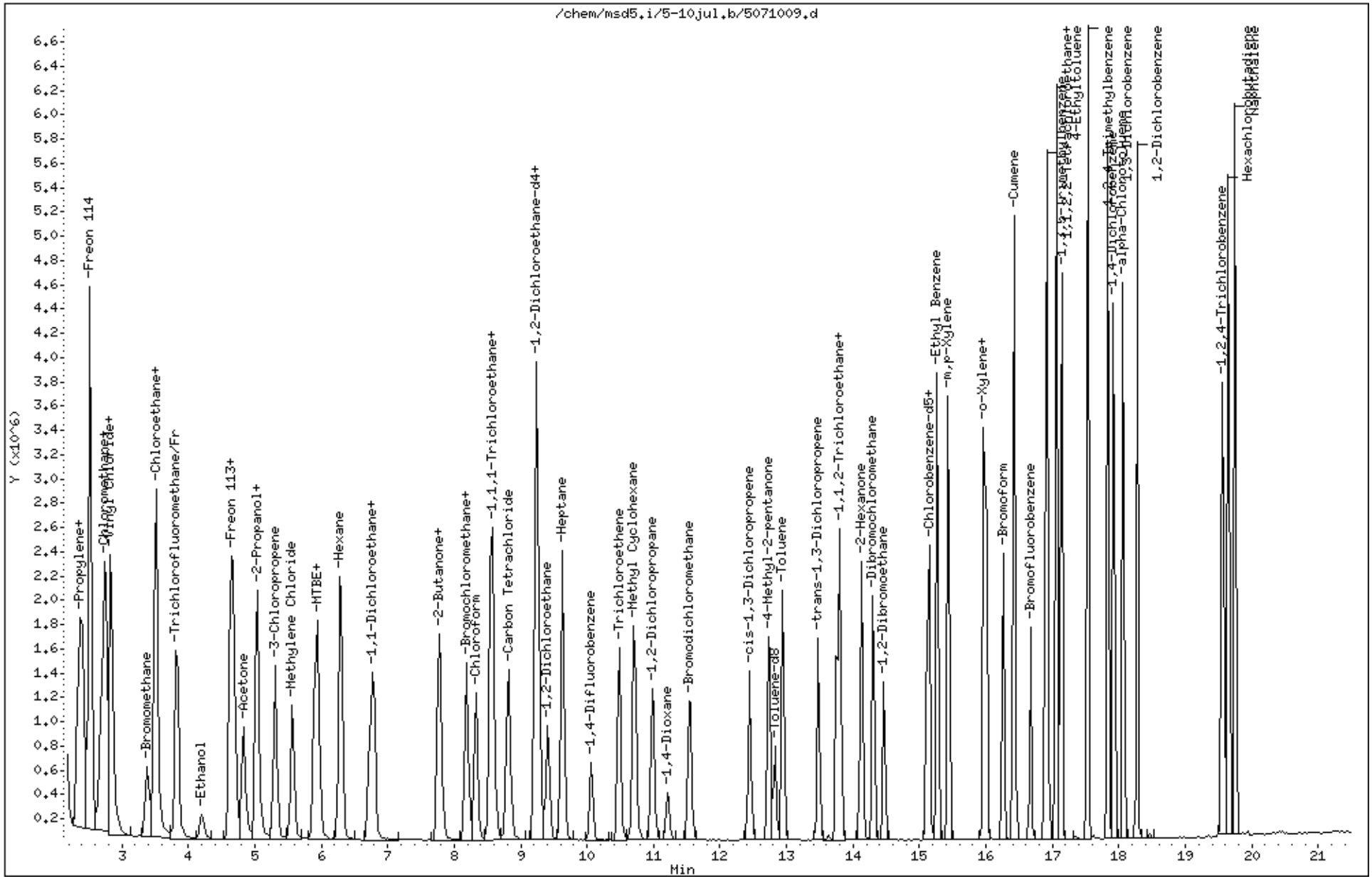
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0135

Data File: /chem/msd5.i/5-10jul.b/5071009.d
Date : 10-JUL-2007 16:27
Client ID: Level 5
Sample Info: 50ml #1443-151

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071010.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 10-JUL-2007 16:55
Operator : db Inst ID: msd5.i
Smp Info : 100ml #1443-151
Misc Info : 200ppbv-100ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:10 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 16:55 Cal File: 5071010.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	242637	25.0000		70.00- 130.00	100.00
8.187	8.187 (1.000)	128	197787			51.52- 111.52	81.52
8.187	8.187 (1.000)	49	578085			208.25- 268.25	238.25
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	960483	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	159720			0.00- 46.63	16.63
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	767869	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	465094			30.57- 90.57	60.57
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	495047	25.0000	25.062	70.00- 130.00	100.00
9.265	9.265 (1.132)	67	288001			28.18- 88.18	58.18
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	826407	25.0000	24.721	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	97147			0.00- 41.76	11.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	587206			41.06- 101.06	71.06
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	534123	25.0000	25.550	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	801033			119.97- 179.97	149.97
16.675	16.675 (1.104)	176	520230			67.40- 127.40	97.40
6 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	3939469	100.000	95.004	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	2615324			36.39- 96.39	66.39
2.353	2.353 (0.287)	39	2686687			38.20- 98.20	68.20
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	6385714	100.000	88.097	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	2094535			2.80- 62.80	32.80
9 Freon 114					CAS #: 76-14-2		
2.546	2.546 (0.311)	135	5925534	100.000	93.697	70.00- 130.00	100.00
2.546	2.546 (0.311)	137	1874764			1.64- 61.64	31.64
10 Chloromethane					CAS #: 74-87-3		
2.684	2.684 (0.328)	50	4468005	100.000	97.119	70.00- 130.00	100.00
2.684	2.684 (0.328)	52	1322161			0.00- 59.59	29.59
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	3521484	100.000	91.414	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	1089468			0.94- 60.94	30.94
12 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.348)	54	3403367	100.000	93.179	70.00- 130.00	100.00
2.850	2.850 (0.348)	39	3713951			79.13- 139.13	109.13
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	2357633	100.000	101.05	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	2163953			61.78- 121.78	91.78
19 Chloroethane					CAS #: 75-00-3		
3.514	3.514 (0.429)	64	1655481	100.000	85.164	70.00- 130.00	100.00
3.514	3.514 (0.429)	49	517052			1.23- 61.23	31.23
3.514	3.514 (0.429)	66	488431			0.00- 59.50	29.50
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.470)	101	5843699	100.000	93.122	70.00- 130.00	100.00
3.846	3.846 (0.470)	103	3757415			34.30- 94.30	64.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.233	4.233 (0.517)	45	1198312	100.000	95.825	70.00- 130.00	100.00
4.233	4.233 (0.517)	43	247189			0.00- 50.63	20.63
4.233	4.233 (0.517)	46	513789			12.88- 72.88	42.88
30 Freon 113					CAS #: 76-13-1		
4.647	4.647 (0.568)	151	3214036	100.000	94.978	70.00- 130.00	100.00
4.647	4.647 (0.568)	153	2024788			33.00- 93.00	63.00
4.647	4.647 (0.568)	101	4068029			96.57- 156.57	126.57
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	3984726	100.000	94.928	70.00- 130.00	100.00
4.703	4.703 (0.574)	96	2054864			21.57- 81.57	51.57
4.703	4.703 (0.574)	98	1292109			2.43- 62.43	32.43
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	1358043	100.000	101.21	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	5105378			345.94- 405.94	375.94
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	5642990	100.000	97.570	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	1199135			0.00- 51.25	21.25
5.035	5.035 (0.615)	59	183687			0.00- 33.26	3.26
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	5939508	100.000	96.709	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	972129	100.000	96.662	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	4455168			428.29- 488.29	458.29
43 Methylene Chloride					CAS #: 75-09-2		
5.588	5.588 (0.683)	49	3372192	100.000	95.529	70.00- 130.00	100.00
5.588	5.588 (0.683)	84	1655720			19.10- 79.10	49.10
5.588	5.588 (0.683)	51	998859			0.00- 59.62	29.62
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	3357709	100.000	90.745	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	1064850			1.71- 61.71	31.71
5.892	5.892 (0.720)	41	1202793			5.82- 65.82	35.82
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	2104421	100.000	94.907	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	3736562			147.56- 207.56	177.56
5.947	5.947 (0.726)	98	1349076			34.11- 94.11	64.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	4363157	100.000	95.960	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	3403079			48.00- 108.00	78.00
6.306	6.306 (0.770)	86	589106			0.00- 43.50	13.50
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	3795454	100.000	95.530	70.00- 130.00	100.00
6.721	6.721 (0.821)	65	1141704			0.08- 60.08	30.08
67 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	791538	100.000	98.129	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	5787735			701.20- 761.20	731.20
7.800	7.800 (0.953)	57	379458			17.94- 77.94	47.94
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	2897916	100.000	101.74	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	1700823			28.69- 88.69	58.69
7.772	7.772 (0.949)	98	1079051			7.24- 67.24	37.24
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	3287184	100.000	88.391	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	688879			0.00- 50.96	20.96
8.187	8.187 (1.000)	72	742077			0.00- 52.57	22.57
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	3281821	100.000	96.989	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	2115737			34.47- 94.47	64.47
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	3809979	100.000	98.851	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	2450058			34.31- 94.31	64.31
74 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	2138276	100.000	99.336	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	3628657			139.70- 199.70	169.70
8.546	8.546 (1.044)	41	2411760			82.79- 142.79	112.79
56 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.831)	86	525247	100.000	103.03	70.00- 130.00	100.00
6.776	6.776 (0.828)	43	8130324			1517.90-1577.90	1547.90
6.776	6.776 (0.828)	42	656822			95.05- 155.05	125.05
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	3777437	100.000	98.535	70.00- 130.00	100.00
8.823	8.823 (1.078)	117	3918427			73.73- 133.73	103.73

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	10153022	100.000	99.128	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	3364182			3.13- 63.13	33.13
9.237	9.237 (1.128)	41	3621740			5.67- 65.67	35.67
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	4112395	100.000	93.768	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	971628			0.00- 53.63	23.63
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	3225022	100.000	96.799	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	969363			0.06- 60.06	30.06
90 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	538715	100.000	89.524	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	4677842			838.33- 898.33	868.33
9.624	9.624 (0.956)	71	1459473			240.92- 300.92	270.92
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	1828845	100.000	89.428	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	1806758			68.79- 128.79	98.79
10.482	10.482 (1.041)	97	1166416			33.78- 93.78	63.78
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	1487737	100.000	91.653	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	1095369			43.63- 103.63	73.63
10.979	10.979 (1.091)	41	1738340			86.84- 146.84	116.84
99 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	897956	100.000	94.857	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	858653			65.62- 125.62	95.62
11.200	11.200 (1.113)	57	314237			4.99- 64.99	34.99
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	3135287	100.000	96.884	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	2008179			34.05- 94.05	64.05
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	2037376	100.000	97.768	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	646255			1.72- 61.72	31.72
12.445	12.445 (1.236)	39	2187431			77.37- 137.37	107.37
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	1488836	100.000	100.34	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	5271092			324.04- 384.04	354.04
12.749	12.749 (1.266)	85	534626			5.91- 65.91	35.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	4206470	100.000	95.375	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	2496619			29.35- 89.35	59.35
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	2467699	100.000	101.46	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	774077			1.37- 61.37	31.37
13.468	13.468 (0.892)	39	2210214			59.57- 119.57	89.57
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	1419432	100.000	101.68	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	868294			31.17- 91.17	61.17
13.744	13.744 (0.910)	83	1132639			49.80- 109.80	79.80
116 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	1923066	100.000	99.019	70.00- 130.00	100.00
13.799	13.799 (0.914)	129	1630705			54.80- 114.80	84.80
13.799	13.799 (0.914)	131	1609206			53.68- 113.68	83.68
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	2053053	100.000	103.11	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	5382998			232.19- 292.19	262.19
14.131	14.131 (0.936)	100	374983			0.00- 48.26	18.26
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	2970169	100.000	103.29	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	2304488			47.59- 107.59	77.59
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	2444538	100.000	101.81	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	2339248			65.69- 125.69	95.69
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	3569262	100.000	98.989	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	1154274			2.34- 62.34	32.34
15.154	15.154 (1.004)	77	2278337			33.83- 93.83	63.83
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	2013750	100.000	101.51	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	6589830			297.24- 357.24	327.24
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	2493533	100.000	99.925	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	5570343			193.39- 253.39	223.39
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	2285639	100.000	98.066	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	5486790			210.05- 270.05	240.05
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	3959404	100.000	103.41	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	2366049			29.76- 89.76	59.76
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	2721874	100.000	108.86	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	1392876			21.17- 81.17	51.17
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	3145802	100.000	97.537	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	2043317			34.95- 94.95	64.95
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	8798196	100.000	103.05	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	2399886			0.00- 57.28	27.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	7406088	100.000	102.47	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	3274880			14.22- 74.22	44.22
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	8101046	100.000	101.50	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	3309983			10.86- 70.86	40.86
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	4680855	100.000	97.944	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	2920611			32.39- 92.39	62.39
17.836	17.836 (1.181)	111	2183683			16.65- 76.65	46.65
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	3877185	100.000	97.926	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	2441254			32.96- 92.96	62.96
17.919	17.919 (1.187)	111	1880320			18.50- 78.50	48.50
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.057 (1.196)	91	7235597	100.000	110.70	70.00- 130.00	100.00
18.057	18.057 (1.196)	126	1267242			0.00- 47.51	17.51
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	4748769	100.000	98.748	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	2952825			32.18- 92.18	62.18
18.279	18.279 (1.211)	111	2217595			16.70- 76.70	46.70

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	3339067	100.000	92.315	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	3174987			65.09- 125.09	95.09
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	2880397	100.000	92.994	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	1797931			32.42- 92.42	62.42
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	9121943	100.000	104.30	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	2038243			0.00- 52.34	22.34
16.924	16.924 (1.121)	105	360641			0.00- 33.95	3.95
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	7935655	100.000	101.99	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	1907805			0.00- 54.04	24.04
16.426	16.426 (1.088)	51	1281463			0.00- 46.15	16.15
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	9969013	100.000	96.987	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	1240391			0.00- 42.44	12.44
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	5205701	100.000	95.734	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	3030067			28.21- 88.21	58.21
3.514	3.514 (0.429)	72	267502			0.00- 35.14	5.14
11 Butane					CAS #: 106-97-8		
2.767	2.767 (0.338)	58	949249	100.000	94.113	70.00- 130.00	100.00
2.767	2.767 (0.338)	43	7726054			783.91- 843.91	813.91
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	2405345	100.000	103.25	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	1215761			20.54- 80.54	50.54
10.703	10.703 (1.063)	55	3063401			97.36- 157.36	127.36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071010.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-100ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	242637	3.32
92 1,4-Difluorobenze	894476	536686	1252266	960483	7.38
125 Chlorobenzene-d5	750815	450489	1051141	767869	2.27

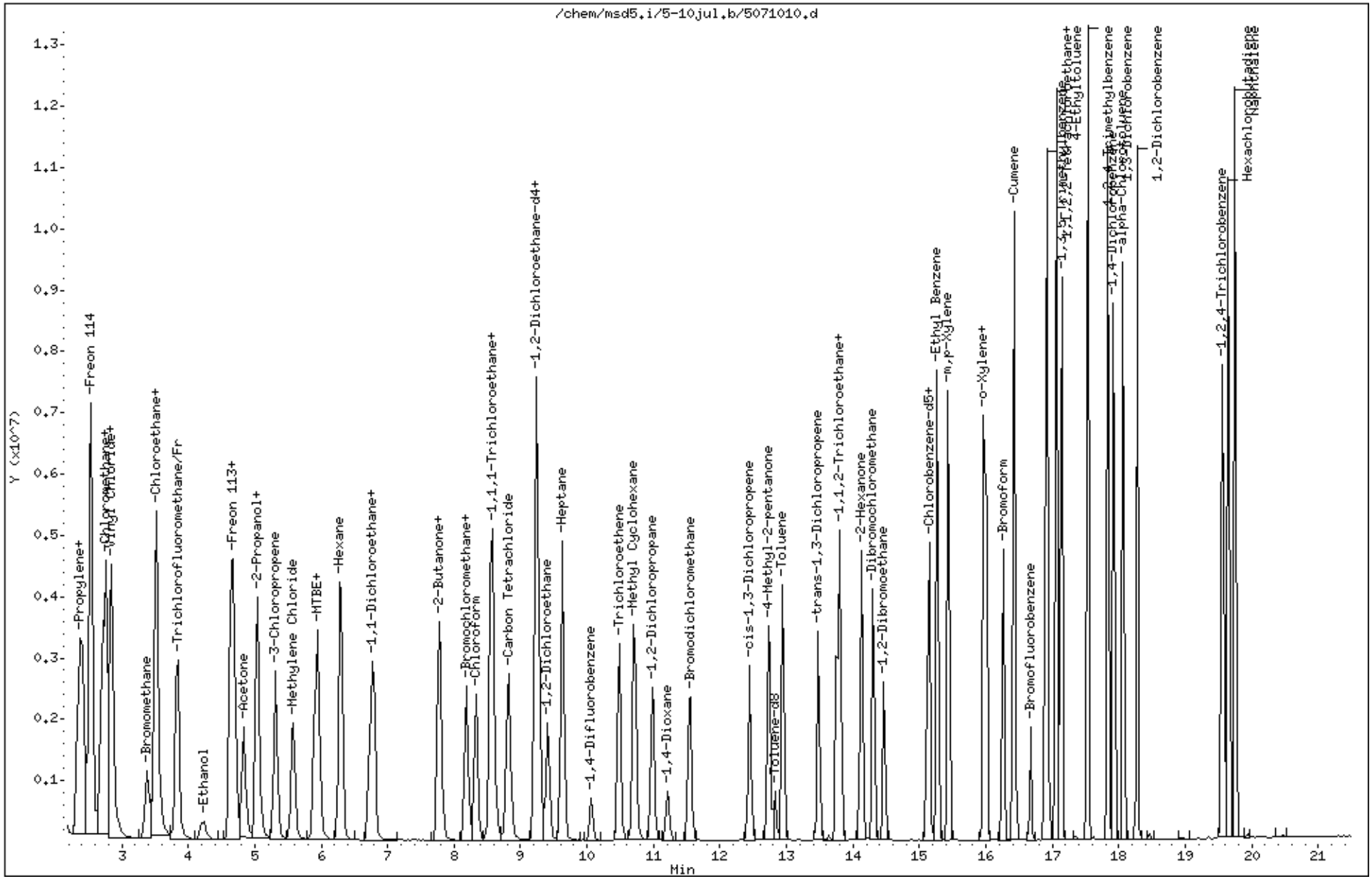
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-10jul.b/5071010.d
Date : 10-JUL-2007 16:55
Client ID: Level 6
Sample Info: 100ml #1443-151

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

Column phase: RTx-624



0145

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071708.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 17-JUL-2007 14:31
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1487-336
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 16:00 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 14:31 Cal File: 5071708.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp15b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.214	8.214 (1.000)	130	197509	25.0000		70.00- 130.00		100.00
8.214	8.214 (1.000)	128	163233			50.06- 110.06		82.65
8.214	8.214 (1.000)	49	462182			188.59- 248.59		234.01
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	770967	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	132265			0.00- 46.78		17.16
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	583510	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	363739			0.00- 30.00		62.34
60 2,2-Dichloropropane					CAS #: 594-20-7			
7.716	7.716 (0.939)	77	4053511	200.000	218.30	70.00- 130.00		100.00(A)
7.716	7.716 (0.939)	79	1289349			0.97- 60.97		31.81
7.716	7.716 (0.939)	97	744567			0.00- 30.00		18.37
73 1,1-Dichloropropene					CAS #: 563-58-6			
8.878	8.878 (1.081)	110	1235823	200.000	199.95	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1-Dichloropropene (continued)							
8.878	8.878 (1.081)	75	3512212			0.00- 30.00	284.20
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.292	15.292 (1.013)	131	3048402	200.000	208.32	70.00- 130.00	100.00(A)
15.292	15.292 (1.013)	117	1752847			0.00- 30.00	57.50
15.292	15.292 (1.013)	95	1442658			0.00- 30.00	47.33
137 Bromobenzene					CAS #: 108-86-1		
16.841	16.841 (1.115)	156	2813237	200.000	192.44	70.00- 130.00	100.00
16.841	16.841 (1.115)	77	4946038			151.93- 211.93	175.81
16.841	16.841 (1.115)	158	2699202			0.00- 30.00	95.95
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.951	16.951 (1.123)	110	1843112	200.000	206.48	70.00- 130.00	100.00(A)
16.951	16.951 (1.123)	61	1408882			0.00- 30.00	76.44
16.951	16.951 (1.123)	112	1188008			0.00- 30.00	64.46
140 2-Chlorotoluene					CAS #: 95-49-8		
17.062	17.062 (1.130)	126	2384027	200.000	199.25	70.00- 130.00	100.00
17.062	17.062 (1.130)	91	7855625			290.93- 350.93	329.51
17.034	17.034 (1.128)	65	991670			0.00- 30.00	41.60
143 4-Chlorotoluene					CAS #: 106-43-4		
17.173	17.173 (1.137)	126	2280370	200.000	198.48	70.00- 130.00	100.00
17.173	17.173 (1.137)	91	8114630			319.44- 379.44	355.85
17.173	17.173 (1.137)	63	1510871			0.00- 30.00	66.26
149 tert-Butylbenzene					CAS #: 98-06-6		
17.477	17.477 (1.157)	119	9644661	200.000	210.05	70.00- 130.00	100.00(A)
17.477	17.477 (1.157)	134	2154082			0.00- 52.08	22.33
17.477	17.477 (1.157)	91	7250914			0.00- 30.00	75.18
150 Pentachloroethane					CAS #: 76-01-7		
17.532	17.532 (1.161)	167	2932064	200.000	201.62	70.00- 130.00	100.00
17.532	17.532 (1.161)	117	2929000			0.00- 30.00	99.90
151 sec-Butylbenzene					CAS #: 135-98-8		
17.698	17.698 (1.172)	105	13073606	200.000	206.75	70.00- 130.00	100.00(A)
17.698	17.698 (1.172)	134	2617976			0.00- 50.62	20.02
17.698	17.698 (1.172)	91	2320061			0.00- 30.00	17.75
153 p-Cymene					CAS #: 99-87-6		
17.836	17.836 (1.181)	134	3398293	200.000	193.02	70.00- 130.00	100.00
17.836	17.836 (1.181)	119	14371882			384.84- 444.84	422.91
17.836	17.836 (1.181)	91	4133968			0.00- 30.00	121.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.947	17.947 (1.189)	120	4141201	200.000	204.20	70.00- 130.00	100.00
17.947	17.947 (1.189)	105	11413283			234.22- 294.22	275.60
17.947	17.947 (1.189)	77	1497716			0.00- 30.00	36.17
158 Butylbenzene					CAS #: 104-51-8		
18.223	18.223 (1.207)	134	3104378	200.000	199.58	70.00- 130.00	100.00
18.223	18.223 (1.207)	91	11301337			292.35- 352.35	364.05
18.223	18.223 (1.207)	92	6048236			0.00- 30.00	194.83
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.970	18.970 (1.256)	157	2943713	200.000	207.74	70.00- 130.00	100.00(A)
18.942	18.942 (1.255)	75	3463489			87.54- 147.54	117.66
18.970	18.970 (1.256)	155	2303858			0.00- 30.00	78.26

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071708.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 13:58
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	198564	119138	277990	197509	-0.53
92 1,4-Difluorobenze	742516	445510	1039522	770967	3.83
125 Chlorobenzene-d5	579346	347608	811084	583510	0.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

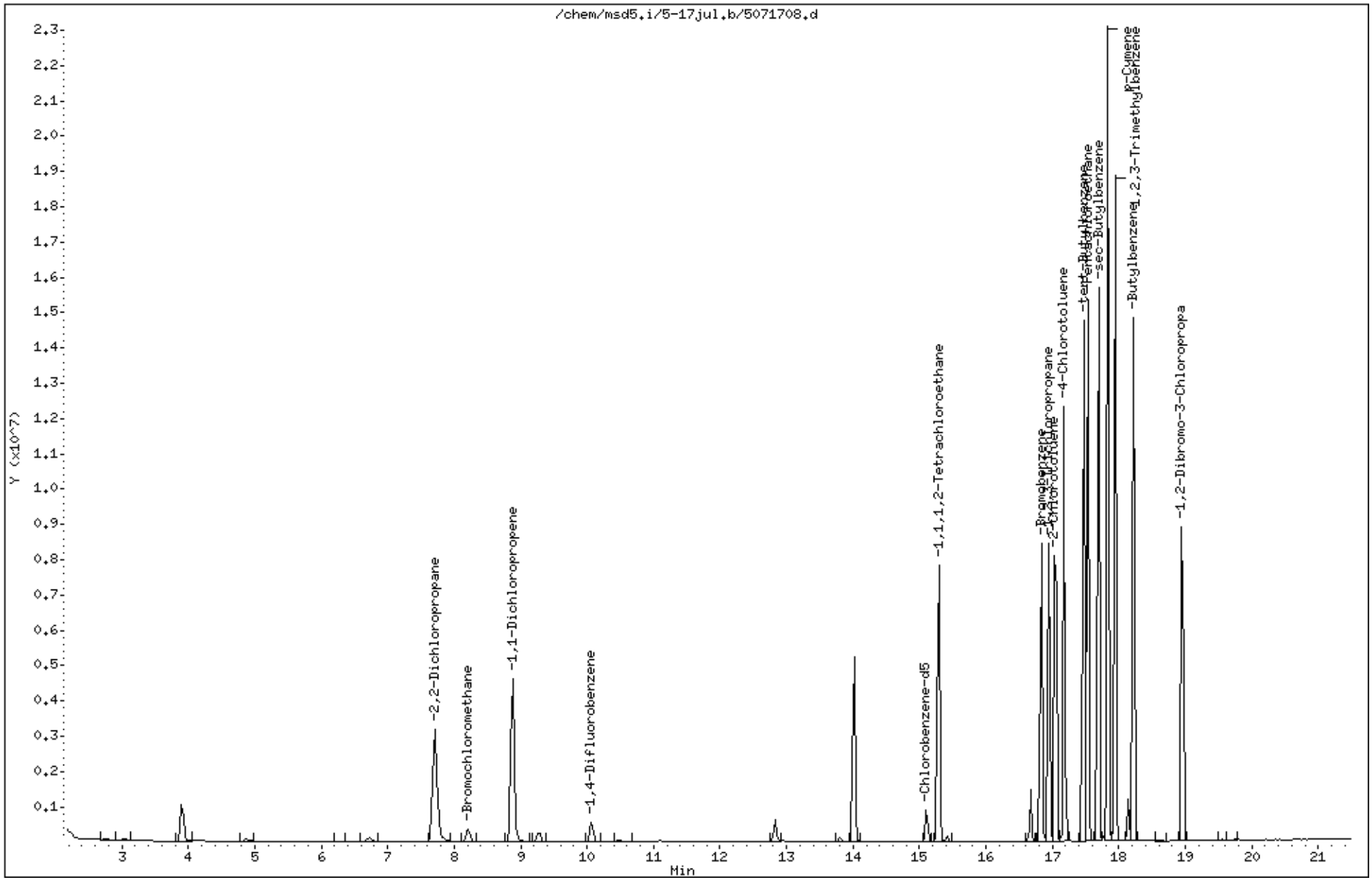
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0150

Data File: /chem/msd5.i/5-17jul.b/5071708.d
Date : 17-JUL-2007 14:31
Client ID: Level 7
Sample Info: 200ml #1487-336

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071704.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 17-JUL-2007 10:36
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1487-341
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 15:56 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 14:31 Cal File: 5071708.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	214401	25.0000		70.00- 130.00	100.00
8.214	8.214 (1.000)	128	165395			45.02- 105.02	77.14
8.214	8.214 (1.000)	49	490770			191.72- 251.72	228.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	847410	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	142309			0.00- 48.58	16.79
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	664587	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	411108			0.00- 30.00	61.86
3 Freon 152a					CAS #: 75-37-6		
2.353	2.353 (0.286)	65	4387789	200.000	194.24	70.00- 130.00	100.00
2.408	2.408 (0.293)	51	24877151			0.00- 30.00	566.96
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.873	3.873 (0.472)	67	8068590	200.000	203.92	70.00- 130.00	100.00(A)
3.873	3.873 (0.472)	69	2373418			0.00- 30.00	29.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Dichlorofluoromethane/Fr21 (continued)							
4.095	4.095 (0.498)	35	4592			0.00- 30.00	0.06
22 Freon123a					CAS #: 354-23-4		
4.399	4.399 (0.535)	117	4449144	200.000	202.75	70.00- 130.00	100.00(A)
4.399	4.399 (0.535)	67	5741999			0.00- 30.00	129.06
24 Freon123					CAS #: 306-83-2		
4.509	4.509 (0.549)	83	7213182	200.000	214.72	70.00- 130.00	100.00(A)
4.537	4.537 (0.552)	133	1438467			0.00- 30.00	19.94
4.509	4.509 (0.549)	85	4998026			0.00- 30.00	69.29
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.698	5.698 (0.694)	59	3263490	200.000	121.45	70.00- 130.00	100.00
5.698	5.698 (0.694)	41	935659			0.00- 30.00	28.67
5.698	5.698 (0.694)	57	356046			0.00- 30.00	10.91
49 Isopropyl ether					CAS #: 108-20-3		
6.721	6.721 (0.818)	45	19576995	200.000	211.26	70.00- 130.00	100.00(A)
6.721	6.721 (0.818)	87	3293611			0.00- 30.00	16.82
6.721	6.721 (0.818)	59	1686308			0.00- 30.00	8.61
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.357	7.357 (0.896)	59	14102368	200.000	212.40	70.00- 130.00	100.00(A)
7.357	7.357 (0.896)	87	4429408			0.00- 30.00	31.41
7.357	7.357 (0.896)	41	3200902			0.00- 30.00	22.70
61 Ethyl Acetate					CAS #: 141-78-6		
7.855	7.855 (0.956)	70	830432	200.000	229.44	70.00- 130.00	100.00(A)
7.855	7.855 (0.956)	43	13491719			0.00- 30.00	1624.66
7.855	7.855 (0.956)	61	1277021			0.00- 30.00	153.78
76 Isobutanol					CAS #: 78-83-1		
9.210	9.210 (0.915)	43	4628276	200.000	219.44	70.00- 130.00	100.00(A)
9.210	9.210 (0.915)	41	3484928			0.00- 30.00	75.30
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.431	9.431 (1.148)	73	8707282	200.000	223.59	70.00- 130.00	100.00(A)
9.431	9.431 (1.148)	87	2365671			0.00- 30.00	27.17
9.431	9.431 (1.148)	55	3480902			0.00- 30.00	39.98
118 Butyl Acetate					CAS #: 123-86-4		
14.297	14.297 (1.420)	56	4131322	200.000	206.39	70.00- 130.00	100.00(A)
14.297	14.297 (1.420)	73	1110189			0.00- 30.00	26.87
14.297	14.297 (1.420)	43	12616927			0.00- 30.00	305.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
131 2-Heptanone					CAS #: 110-43-0		
16.177	16.177 (1.071)	58	6201728	200.000	218.67	70.00- 130.00	100.00(A)
16.177	16.177 (1.071)	43	14801075			0.00- 30.00	238.66
135 Cyclohexanone					CAS #: 108-94-1		
16.620	16.620 (1.101)	55	5697686	200.000	209.60	70.00- 130.00	100.00(A)
16.620	16.620 (1.101)	98	1746658			0.00- 30.00	30.66
16.620	16.620 (1.101)	42	5330690			0.00- 30.00	93.56
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.283	17.283 (1.145)	57	13921744	200.000	198.93	70.00- 130.00	100.00
17.311	17.311 (1.146)	85	7263739			21.15- 81.15	52.18

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071704.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 10:03
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	219552	131731	307373	214401	-2.35
92 1,4-Difluorobenze	774915	464949	1084881	847410	9.36
125 Chlorobenzene-d5	603786	362272	845300	664587	10.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

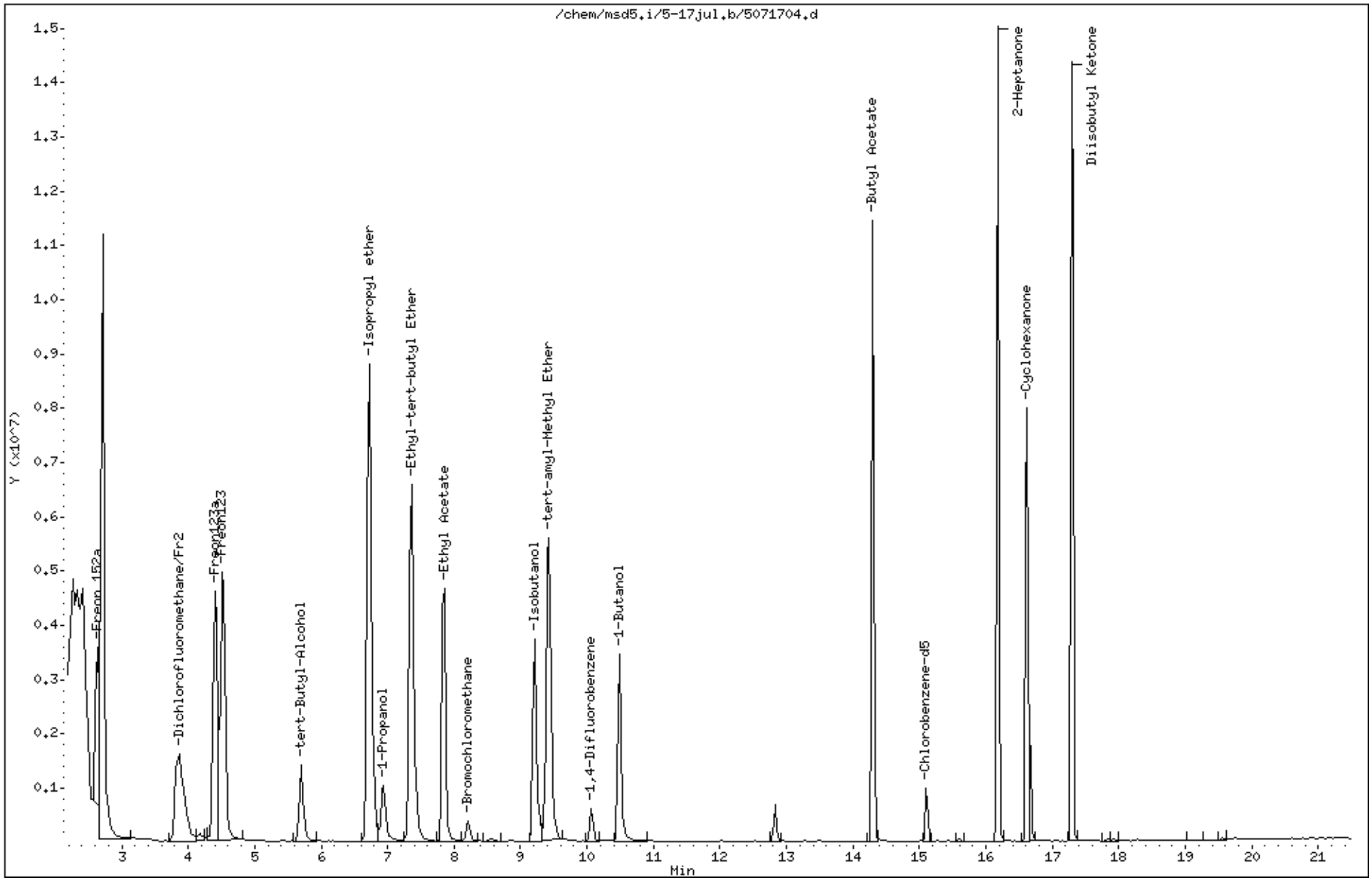
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0155

Data File: /chem/msd5.i/5-17jul.b/5071704.d
Date : 17-JUL-2007 10:36
Client ID: Level 7
Sample Info: 200ml #1487-341

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10jul.b/5071011.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 10-JUL-2007 17:28
Operator : db Inst ID: msd5.i
Smp Info : 200ml #1443-151
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-10jul.b/t14q710a.m
Meth Date : 11-Jul-2007 11:10 jgray Quant Type: ISTD
Cal Date : 10-JUL-2007 17:28 Cal File: 5071011.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	258614	25.0000		70.00- 130.00	100.00
8.214	8.214 (1.000)	128	198240			51.52- 111.52	76.65
8.214	8.214 (1.000)	49	587929			208.25- 268.25	227.34
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	992549	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	171877			0.00- 46.63	17.32
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	790858	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	519670			30.57- 90.57	65.71
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.128)	65	549983	25.0000	26.123	70.00- 130.00	100.00
9.265	9.265 (1.128)	67	390680			28.18- 88.18	71.03
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	865093	25.0000	25.042	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	100929			0.00- 41.76	11.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	651897			41.06- 101.06	75.36
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	564610	25.0000	26.223	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	836237			119.97- 179.97	148.11
16.675	16.675 (1.104)	176	542758			67.40- 127.40	96.13
6 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.286)	41	7488961	200.000	169.44	70.00- 130.00	100.00
2.353	2.353 (0.286)	42	5055404			36.39- 96.39	67.50
2.353	2.353 (0.286)	39	5168636			38.20- 98.20	69.02
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.293)	85	13664630	200.000	176.87	70.00- 130.00	100.00
2.408	2.408 (0.293)	87	4432964			2.80- 62.80	32.44
9 Freon 114					CAS #: 76-14-2		
2.574	2.574 (0.313)	135	11176859	200.000	165.81	70.00- 130.00	100.00
2.574	2.574 (0.313)	137	3558968			1.64- 61.64	31.84
10 Chloromethane					CAS #: 74-87-3		
2.712	2.712 (0.330)	50	8005454	200.000	163.26	70.00- 130.00	100.00
2.712	2.712 (0.330)	52	2389411			0.00- 59.59	29.85
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.347)	62	6830364	200.000	166.36	70.00- 130.00	100.00
2.850	2.850 (0.347)	64	2066041			0.94- 60.94	30.25
12 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.347)	54	6509331	200.000	167.20	70.00- 130.00	100.00
2.850	2.850 (0.347)	39	8522275			79.13- 139.13	130.92
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.411)	94	4398465	200.000	176.88	70.00- 130.00	100.00
3.376	3.376 (0.411)	96	4171377			61.78- 121.78	94.84
19 Chloroethane					CAS #: 75-00-3		
3.542	3.542 (0.431)	64	3322152	200.000	160.34	70.00- 130.00	100.00
3.542	3.542 (0.431)	49	1039970			1.23- 61.23	31.30
3.542	3.542 (0.431)	66	957956			0.00- 59.50	28.84
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.468)	101	11631733	200.000	173.90	70.00- 130.00	100.00
3.846	3.846 (0.468)	103	7481267			34.30- 94.30	64.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.260	4.260 (0.519)	45	2480352	200.000	186.09	70.00- 130.00	100.00
4.260	4.260 (0.519)	43	512107			0.00- 50.63	20.65
4.260	4.260 (0.519)	46	1025464			12.88- 72.88	41.34
30 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.566)	151	6476517	200.000	179.56	70.00- 130.00	100.00
4.648	4.648 (0.566)	153	4103412			33.00- 93.00	63.36
4.648	4.648 (0.566)	101	8170701			96.57- 156.57	126.16
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.703	4.703 (0.573)	61	7969949	200.000	178.14	70.00- 130.00	100.00
4.703	4.703 (0.573)	96	4072597			21.57- 81.57	51.10
4.703	4.703 (0.573)	98	2602017			2.43- 62.43	32.65
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.589)	58	2767386	200.000	193.50	70.00- 130.00	100.00
4.841	4.841 (0.589)	43	10384065			345.94- 405.94	375.23
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.613)	45	11613410	200.000	188.40	70.00- 130.00	100.00
5.035	5.035 (0.613)	43	2474238			0.00- 51.25	21.31
5.062	5.062 (0.616)	59	388899			0.00- 33.26	3.35
35 Carbon Disulfide					CAS #: 75-15-0		
5.062	5.062 (0.616)	76	11994930	200.000	183.24	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.339	5.339 (0.650)	76	1998883	200.000	186.48	70.00- 130.00	100.00
5.311	5.311 (0.647)	41	8967806			428.29- 488.29	448.64
43 Methylene Chloride					CAS #: 75-09-2		
5.588	5.588 (0.680)	49	6705515	200.000	178.22	70.00- 130.00	100.00
5.588	5.588 (0.680)	84	3264191			19.10- 79.10	48.68
5.588	5.588 (0.680)	51	1953673			0.00- 59.62	29.14
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.717)	73	5764161	200.000	146.16	70.00- 130.00	100.00
5.892	5.892 (0.717)	57	1808387			1.71- 61.71	31.37
5.892	5.892 (0.717)	41	1966557			5.82- 65.82	34.12
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.975	5.975 (0.727)	96	4229075	200.000	178.94	70.00- 130.00	100.00
5.947	5.947 (0.724)	61	7473155			147.56- 207.56	176.71
5.975	5.975 (0.727)	98	2681928			34.11- 94.11	63.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.306	6.306 (0.768)	57	8790513	200.000	181.39	70.00- 130.00	100.00
6.306	6.306 (0.768)	43	6805768			48.00- 108.00	77.42
6.306	6.306 (0.768)	86	1202196			0.00- 43.50	13.68
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.749	6.749 (0.822)	63	7704328	200.000	181.93	70.00- 130.00	100.00
6.749	6.749 (0.822)	65	2301598			0.08- 60.08	29.87
67 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.950)	72	1685410	200.000	196.04	70.00- 130.00	100.00
7.800	7.800 (0.950)	43	11677015			701.20- 761.20	692.83
7.800	7.800 (0.950)	57	766229			17.94- 77.94	45.46
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.946)	61	5821201	200.000	191.74	70.00- 130.00	100.00
7.772	7.772 (0.946)	96	3376434			28.69- 88.69	58.00
7.772	7.772 (0.946)	98	2148368			7.24- 67.24	36.91
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (0.997)	42	6545531	200.000	165.13	70.00- 130.00	100.00
8.187	8.187 (0.997)	71	1425335			0.00- 50.96	21.78
8.187	8.187 (0.997)	72	1540587			0.00- 52.57	23.54
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.013)	83	6639248	200.000	184.09	70.00- 130.00	100.00
8.325	8.325 (1.013)	85	4280004			34.47- 94.47	64.47
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.044)	97	7606238	200.000	185.15	70.00- 130.00	100.00
8.574	8.574 (1.044)	99	4890623			34.31- 94.31	64.30
74 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.040)	84	4210279	200.000	183.51	70.00- 130.00	100.00
8.546	8.546 (1.040)	56	7343342			139.70- 199.70	174.41
8.546	8.546 (1.040)	41	4802094			82.79- 142.79	114.06
56 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.828)	86	1061397	200.000	195.34	70.00- 130.00	100.00
6.804	6.804 (0.828)	43	16728709			1517.90-1577.90	1576.10
6.804	6.804 (0.828)	42	1346348			95.05- 155.05	126.85
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.074)	119	7547124	200.000	184.70	70.00- 130.00	100.00
8.823	8.823 (1.074)	117	7803288			73.73- 133.73	103.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.125)	57	20220361	200.000	185.22	70.00- 130.00	100.00
9.237	9.237 (1.125)	56	6749665			3.13- 63.13	33.38
9.237	9.237 (1.125)	41	7116747			5.67- 65.67	35.20
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	8018418	200.000	176.92	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	1908686			0.00- 53.63	23.80
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	6432169	200.000	186.82	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	1984875			0.06- 60.06	30.86
90 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	1087127	200.000	174.82	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	9529390			838.33- 898.33	876.57
9.624	9.624 (0.956)	71	2951521			240.92- 300.92	271.50
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	3628192	200.000	171.68	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	3575719			68.79- 128.79	98.55
10.482	10.482 (1.041)	97	2338325			33.78- 93.78	64.45
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	3079594	200.000	183.59	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	2334905			43.63- 103.63	75.82
10.979	10.979 (1.091)	41	3426722			86.84- 146.84	111.27
99 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	1829412	200.000	187.01	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	1768500			65.62- 125.62	96.67
11.200	11.200 (1.113)	57	633524			4.99- 64.99	34.63
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	6328922	200.000	189.25	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	4083650			34.05- 94.05	64.52
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	4154268	200.000	192.91	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	1301115			1.72- 61.72	31.32
12.445	12.445 (1.236)	39	4426699			77.37- 137.37	106.56
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	3084141	200.000	201.13	70.00- 130.00	100.00(A)
12.721	12.721 (1.264)	43	10608130			324.04- 384.04	343.96
12.749	12.749 (1.266)	85	1080323			5.91- 65.91	35.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	8634189	200.000	189.44	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	5028789			29.35- 89.35	58.24
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	4967299	200.000	198.29	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	1555543			1.37- 61.37	31.32
13.468	13.468 (0.892)	39	4466348			59.57- 119.57	89.92
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	2826197	200.000	196.56	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	1774358			31.17- 91.17	62.78
13.744	13.744 (0.910)	83	2245209			49.80- 109.80	79.44
116 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.800 (0.914)	166	3778256	200.000	188.89	70.00- 130.00	100.00
13.800	13.800 (0.914)	129	3320181			54.80- 114.80	87.88
13.800	13.800 (0.914)	131	3168582			53.68- 113.68	83.86
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	4232316	200.000	206.38	70.00- 130.00	100.00(A)
14.131	14.131 (0.936)	43	10879780			232.19- 292.19	257.06
14.131	14.131 (0.936)	100	721650			0.00- 48.26	17.05
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	6018679	200.000	203.23	70.00- 130.00	100.00(A)
14.297	14.297 (0.947)	127	4712326			47.59- 107.59	78.30
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	4973334	200.000	201.11	70.00- 130.00	100.00(A)
14.463	14.463 (0.958)	109	4629730			65.69- 125.69	93.09
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	7151972	200.000	192.58	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	2294551			2.34- 62.34	32.08
15.154	15.154 (1.004)	77	4530730			33.83- 93.83	63.35
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	3902738	200.000	191.00	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	12996148			297.24- 357.24	333.00
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	4909345	200.000	191.02	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	10919292			193.39- 253.39	222.42
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	4614083	200.000	192.21	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	10825300			210.05- 270.05	234.61
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	7958991	200.000	201.83	70.00- 130.00	100.00(A)
16.011	16.011 (1.060)	78	4776629			29.76- 89.76	60.02
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	5388470	200.000	209.24	70.00- 130.00	100.00(A)
16.260	16.260 (1.077)	171	2782383			21.17- 81.17	51.64
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	6134581	200.000	184.68	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	3888121			34.95- 94.95	63.38
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	15613486	200.000	177.56	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	4702792			0.00- 57.28	30.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	14810310	200.000	198.96	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	6410326			14.22- 74.22	43.28
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	14925211	200.000	181.57	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	6284934			10.86- 70.86	42.11
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	8900178	200.000	180.82	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	5521495			32.39- 92.39	62.04
17.836	17.836 (1.181)	111	4245867			16.65- 76.65	47.71
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	7719477	200.000	189.30	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	4746190			32.96- 92.96	61.48
17.919	17.919 (1.187)	111	3735468			18.50- 78.50	48.39
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	14774735	200.000	219.48	70.00- 130.00	100.00(A)
18.058	18.058 (1.196)	126	2563644			0.00- 47.51	17.35
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	8995718	200.000	181.62	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	5617857			32.18- 92.18	62.45
18.279	18.279 (1.211)	111	4363160			16.70- 76.70	48.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	6593848	200.000	177.00	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	6240814			65.09- 125.09	94.65
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	5583810	200.000	175.03	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	3437711			32.42- 92.42	61.57
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	16499239	200.000	183.17	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	3934375			0.00- 52.34	23.85
16.924	16.924 (1.121)	105	709281			0.00- 33.95	4.30
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	15519087	200.000	193.66	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	3784052			0.00- 54.04	24.38
16.426	16.426 (1.088)	51	2500743			0.00- 46.15	16.11
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	17119036	200.000	161.71	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	2539915			0.00- 42.44	14.84
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.428)	43	10268689	200.000	177.18	70.00- 130.00	100.00
3.542	3.542 (0.431)	57	6002044			28.21- 88.21	58.45
3.542	3.542 (0.431)	72	561121			0.00- 35.14	5.46
11 Butane					CAS #: 106-97-8		
2.767	2.767 (0.337)	58	1761884	200.000	163.89	70.00- 130.00	100.00
2.767	2.767 (0.337)	43	14575082			783.91- 843.91	827.24
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	4838805	200.000	201.00	70.00- 130.00	100.00(A)
10.703	10.703 (1.063)	98	2472298			20.54- 80.54	51.09
10.703	10.703 (1.063)	55	6124094			97.36- 157.36	126.56

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071011.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msd5.i/5-10jul.b/t14q710a.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 10-JUL-2007
Calibration Time: 16:27
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	234839	140903	328775	258614	10.12
92 1,4-Difluorobenze	894476	536686	1252266	992549	10.96
125 Chlorobenzene-d5	750815	450489	1051141	790858	5.33

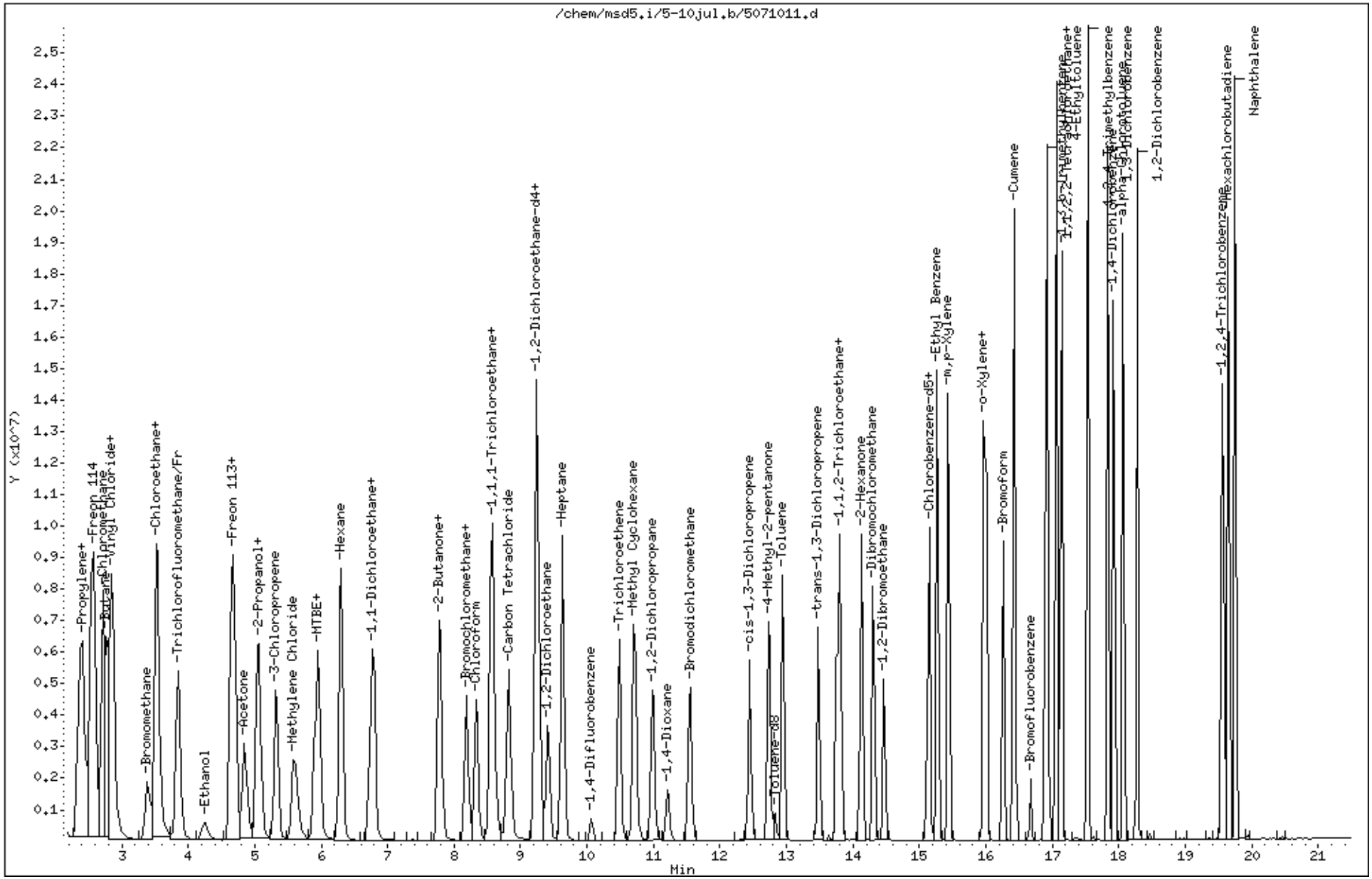
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-10jul.b/5071011.d
Date : 10-JUL-2007 17:28
Client ID: Level 7
Sample Info: 200ml #1443-151

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

Column phase: RTx-624



0165

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0707163-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071710**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/07 04:00 PM**	

Compound	%Recovery
Freon 12	75
Freon 114	79
Vinyl Chloride	81
Bromomethane	85
Chloroethane	76
Freon 11	80
1,1-Dichloroethene	80
Freon 113	80
Methylene Chloride	80
1,1-Dichloroethane	78
cis-1,2-Dichloroethene	83
Chloroform	78
1,1,1-Trichloroethane	81
Carbon Tetrachloride	83
Benzene	86
1,2-Dichloroethane	92
Trichloroethene	82
1,2-Dichloropropane	81
cis-1,3-Dichloropropene	84
Toluene	84
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	91
Tetrachloroethene	88
1,2-Dibromoethane (EDB)	90
Chlorobenzene	87
Ethyl Benzene	92
m,p-Xylene	91
o-Xylene	88
Styrene	89
1,1,2,2-Tetrachloroethane	85
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	92
1,3-Butadiene	79
Hexane	79
Cyclohexane	79

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0707163-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071710**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/07 04:00 PM**	

Compound	%Recovery
Heptane	81
Bromodichloromethane	88
Dibromochloromethane	93
Cumene	89
Propylbenzene	95
Chloromethane	84
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	85
Acetone	79
Carbon Disulfide	82
2-Propanol	78
trans-1,2-Dichloroethene	79
2-Butanone (Methyl Ethyl Ketone)	79
Tetrahydrofuran	68 Q
1,4-Dioxane	86
4-Methyl-2-pentanone	88
2-Hexanone	85
Bromoform	94
4-Ethyltoluene	92
Ethanol	79
Methyl tert-butyl ether	79
3-Chloropropene	79
2,2,4-Trimethylpentane	78
Naphthalene	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 17-JUL-2007 16:00
Lab File ID: 5071710.d Init. Cal. Date(s): 10-JUL-2007 17-JUL-2007
Analysis Type: AIR Init. Cal. Times: 14:34 14:31
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-17jul.b/t14q710b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 84 1,2-Dichloroethane-d4	2.03526	1.90322	0.010	6.48746	30.00000	Averaged	
$ 107 Toluene-d8	0.87012	0.87899	0.010	-1.02030	30.00000	Averaged	
$ 138 Bromofluorobenzene	0.68062	0.65896	0.010	3.18168	30.00000	Averaged	
6 Propylene	4.27247	3.33855	0.010	21.85907	30.00000	Averaged	
8 Dichlorodifluoromethane/Fr1	7.46846	5.61067	0.010	24.87518	30.00000	Averaged	
9 Freon 114	6.51605	5.15040	0.010	20.95823	30.00000	Averaged	
10 Chloromethane	4.74013	3.96761	0.010	16.29755	30.00000	Averaged	
13 Vinyl Chloride	3.96912	3.22873	0.010	18.65379	30.00000	Averaged	
12 1,3-Butadiene	3.76333	2.98466	0.010	20.69110	30.00000	Averaged	
15 Bromomethane	2.40391	2.03837	0.010	15.20621	30.00000	Averaged	
19 Chloroethane	2.00287	1.51734	0.010	24.24173	30.00000	Averaged	
20 Trichlorofluoromethane/Fr11	6.46575	5.20857	0.010	19.44367	30.00000	Averaged	
26 Ethanol	1.28847	1.02064	0.010	20.78650	30.00000	Averaged	
30 Freon 113	3.48667	2.78462	0.010	20.13527	30.00000	Averaged	
31 1,1-Dichloroethene	4.32501	3.46917	0.010	19.78800	30.00000	Averaged	
32 Acetone	1.38250	1.08983	0.010	21.16953	30.00000	Averaged	
36 2-Propanol	5.95906	4.64497	0.010	22.05195	30.00000	Averaged	
35 Carbon Disulfide	6.32799	5.15906	0.010	18.47232	30.00000	Averaged	
38 3-Chloropropene	1.03622	0.82042	0.010	20.82523	30.00000	Averaged	
43 Methylene Chloride	3.63712	2.90080	0.010	20.24457	30.00000	Averaged	
46 MTBE	3.81243	3.01224	0.010	20.98894	30.00000	Averaged	
47 trans-1,2-Dichloroethene	2.28463	1.80814	0.010	20.85655	30.00000	Averaged	
51 Hexane	4.68480	3.68246	0.010	21.39558	30.00000	Averaged	
55 1,1-Dichloroethane	4.09362	3.20522	0.010	21.70215	30.00000	Averaged	
67 2-Butanone	0.83111	0.65695	0.010	20.95449	30.00000	Averaged	
66 cis-1,2-Dichloroethene	2.93492	2.45059	0.010	16.50240	30.00000	Averaged	
70 Tetrahydrofuran	3.83177	2.59999	0.010	32.14662	30.00000	Averaged	<-
72 Chloroform	3.48638	2.72006	0.010	21.98041	30.00000	Averaged	
75 1,1,1-Trichloroethane	3.97123	3.22138	0.010	18.88220	30.00000	Averaged	
74 Cyclohexane	2.21790	1.74989	0.010	21.10137	30.00000	Averaged	
56 Vinyl Acetate	0.52527	0.39214	0.010	25.34530	30.00000	Averaged	
77 Carbon Tetrachloride	3.94992	3.29685	0.010	16.53398	30.00000	Averaged	
80 2,2,4-Trimethylpentane	10.55316	8.22853	0.010	22.02784	30.00000	Averaged	
81 Benzene	1.14154	0.98314	0.010	13.87666	30.00000	Averaged	
85 1,2-Dichloroethane	0.86718	0.79874	0.010	7.89249	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 17-JUL-2007 16:00
Lab File ID: 5071710.d Init. Cal. Date(s): 10-JUL-2007 17-JUL-2007
Analysis Type: AIR Init. Cal. Times: 14:34 14:31
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-17jul.b/t14q710b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.15663	0.12676	0.010	19.07258	30.00000	Averaged
93 Trichloroethene	0.53230	0.43605	0.010	18.08134	30.00000	Averaged
98 1,2-Dichloropropane	0.42250	0.34244	0.010	18.94992	30.00000	Averaged
99 1,4-Dioxane	0.24640	0.21267	0.010	13.68888	30.00000	Averaged
100 Bromodichloromethane	0.84232	0.74397	0.010	11.67646	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.54241	0.45732	0.010	15.68595	30.00000	Averaged
106 4-Methyl-2-pentanone	0.38623	0.33796	0.010	12.49565	30.00000	Averaged
108 Toluene	1.14798	0.96558	0.010	15.88934	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.79187	0.69572	0.010	12.14175	30.00000	Averaged
114 1,1,2-Trichloroethane	0.45450	0.41569	0.010	8.54086	30.00000	Averaged
116 Tetrachloroethene	0.63231	0.56009	0.010	11.42120	30.00000	Averaged
119 2-Hexanone	0.64826	0.54892	0.010	15.32464	30.00000	Averaged
120 Dibromochloromethane	0.93618	0.87027	0.010	7.04035	30.00000	Averaged
122 1,2-Dibromoethane	0.78171	0.70562	0.010	9.73448	30.00000	Averaged
126 Chlorobenzene	1.17394	1.02549	0.010	12.64498	30.00000	Averaged
128 Ethyl Benzene	0.64590	0.59437	0.010	7.97841	30.00000	Averaged
130 m,p-Xylene	0.81244	0.74305	0.010	8.54131	30.00000	Averaged
132 o-Xylene	0.75883	0.66631	0.010	12.19267	30.00000	Averaged
133 Styrene	1.24653	1.11164	0.010	10.82125	30.00000	Averaged
134 Bromoform	0.81408	0.77007	0.010	5.40619	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.05006	0.89088	0.010	15.15883	30.00000	Averaged
144 4-Ethyltoluene	2.77973	2.56130	0.010	7.85797	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.35303	2.15344	0.010	8.48230	30.00000	Averaged
152 1,2,4-Trimethylbenzene	2.59840	2.37438	0.010	8.62173	30.00000	Averaged
155 1,3-Dichlorobenzene	1.55597	1.37409	0.010	11.68967	30.00000	Averaged
156 1,4-Dichlorobenzene	1.28905	1.15561	0.010	10.35141	30.00000	Averaged
157 alpha-Chlorotoluene	2.12798	2.01573	0.010	5.27503	30.00000	Averaged
159 1,2-Dichlorobenzene	1.56569	1.44717	0.010	7.56970	30.00000	Averaged
163 1,2,4-Trichlorobenzene	1.17762	0.97574	0.010	17.14319	30.00000	Averaged
164 Hexachlorobutadiene	1.00844	0.85596	0.010	15.12014	30.00000	Averaged
142 Propylbenzene	2.84742	2.71758	0.010	4.55990	30.00000	Averaged
136 Cumene	2.53316	2.24934	0.010	11.20419	30.00000	Averaged
165 Naphthalene	3.34650	2.80306	0.010	16.23915	30.00000	Averaged
17 Isopentane	5.60265	4.54928	0.010	18.80128	30.00000	Averaged
11 Butane	1.03923	0.82361	0.010	20.74795	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 17-JUL-2007 16:00
Lab File ID: 5071710.d Init. Cal. Date(s): 10-JUL-2007 17-JUL-2007
Analysis Type: AIR Init. Cal. Times: 14:34 14:31
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-17jul.b/t14q710b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.60637	0.57095	0.010	5.84091	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071710.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 17-JUL-2007 16:00
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1443-151
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 18-Jul-2007 16:01 ctaylor Quant Type: ISTD
Cal Date : 17-JUL-2007 14:31 Cal File: 5071708.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.187	8.187 (1.000)	130	224693	25.0000		80.00- 120.00		100.00
8.187	8.187 (1.000)	128	169111			45.26- 105.26		75.26
8.187	8.187 (1.000)	49	465103			176.99- 236.99		206.99
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	775023	25.0000		80.00- 120.00		100.00
10.067	10.067 (1.000)	88	128672			0.00- 46.60		16.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	629827	25.0000		80.00- 120.00		100.00
15.099	15.099 (1.000)	82	403790			0.00- 30.00		64.11
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.265	9.265 (1.132)	65	427640	25.0000	23.378	80.00- 120.00		100.00
9.265	9.265 (1.132)	67	222449			28.18- 88.18		52.02
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	681240	25.0000	25.255	80.00- 120.00		100.00
12.832	12.832 (1.275)	70	87039			0.00- 41.76		12.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	440869			41.06- 101.06	64.72
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	415032	25.0000	24.204	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	653808			127.53- 187.53	157.53
16.675	16.675 (1.104)	176	423857			72.13- 132.13	102.13
6 Propylene					CAS #: 115-07-1		
2.325	2.325 (0.284)	41	1500298	50.0000	39.070	80.00- 120.00	100.00
2.325	2.325 (0.284)	42	1017833			36.39- 96.39	67.84
2.325	2.325 (0.284)	39	1019910			38.20- 98.20	67.98
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	2521356	50.0000	37.562	80.00- 120.00	100.00
2.408	2.408 (0.294)	87	818857			2.80- 62.80	32.48
9 Freon 114					CAS #: 76-14-2		
2.519	2.519 (0.308)	135	2314517	50.0000	39.521	80.00- 120.00	100.00
2.519	2.519 (0.308)	137	735272			1.77- 61.77	31.77
10 Chloromethane					CAS #: 74-87-3		
2.684	2.684 (0.328)	50	1782987	50.0000	41.851	80.00- 120.00	100.00
2.657	2.657 (0.325)	52	526990			0.00- 59.59	29.56
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	1450946	50.0000	40.673	80.00- 120.00	100.00
2.850	2.850 (0.348)	64	436952			0.94- 60.94	30.11
12 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.823 (0.345)	54	1341264	50.0000	39.654	80.00- 120.00	100.00
2.823	2.823 (0.345)	39	1565276			79.13- 139.13	116.70
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	916015	50.0000	42.397	80.00- 120.00	100.00
3.376	3.376 (0.412)	96	882573			66.35- 126.35	96.35
19 Chloroethane					CAS #: 75-00-3		
3.486	3.486 (0.426)	64	681872	50.0000	37.879	80.00- 120.00	100.00
3.486	3.486 (0.426)	49	219902			1.23- 61.23	32.25
3.486	3.486 (0.426)	66	194746			0.00- 59.50	28.56
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.818 (0.466)	101	2340660	50.0000	40.278	80.00- 120.00	100.00
3.818	3.818 (0.466)	103	1483718			33.39- 93.39	63.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.205	4.205 (0.514)	45	458661	50.0000	39.607	80.00- 120.00	100.00
4.205	4.205 (0.514)	43	95654			0.00- 50.63	20.86
4.205	4.205 (0.514)	46	182358			12.88- 72.88	39.76
30 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.568)	151	1251370	50.0000	39.932	80.00- 120.00	100.00
4.648	4.648 (0.568)	153	825063			35.93- 95.93	65.93
4.648	4.648 (0.568)	101	1617004			99.22- 159.22	129.22
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	1558998	50.0000	40.106	80.00- 120.00	100.00
4.675	4.675 (0.571)	96	764231			19.02- 79.02	49.02
4.675	4.675 (0.571)	98	491888			1.55- 61.55	31.55
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	489756	50.0000	39.415	80.00- 120.00	100.00
4.841	4.841 (0.591)	43	1956256			345.94- 405.94	399.43
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	2087385	50.0000	38.974	80.00- 120.00	100.00
5.035	5.035 (0.615)	43	466693			0.00- 51.25	22.36
5.035	5.035 (0.615)	59	69895			0.00- 33.26	3.35
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	2318411	50.0000	40.764	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	368686	50.0000	39.587	80.00- 120.00	100.00
5.311	5.311 (0.649)	41	1658628			428.29- 488.29	449.88
43 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	1303580	50.0000	39.878	80.00- 120.00	100.00
5.560	5.560 (0.679)	84	638840			19.01- 79.01	49.01
5.560	5.560 (0.679)	51	381973			0.00- 59.62	29.30
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	1353658	50.0000	39.506	80.00- 120.00	100.00
5.892	5.892 (0.720)	57	449272			3.19- 63.19	33.19
5.892	5.892 (0.720)	41	520153			5.82- 65.82	38.43
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	812552	50.0000	39.572	80.00- 120.00	100.00
5.947	5.947 (0.726)	61	1409514			143.47- 203.47	173.47
5.947	5.947 (0.726)	98	514811			34.11- 94.11	63.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	1654847	50.0000	39.302	80.00- 120.00	100.00
6.279	6.279 (0.767)	43	1280237			48.00- 108.00	77.36
6.306	6.306 (0.770)	86	225957			0.00- 43.50	13.65
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	1440381	50.0000	39.149	80.00- 120.00	100.00
6.721	6.721 (0.821)	65	427467			0.00- 59.68	29.68
67 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	295225	50.0000	39.523	80.00- 120.00	100.00
7.800	7.800 (0.953)	43	2152562			699.13- 759.13	729.13
7.800	7.800 (0.953)	57	144624			17.94- 77.94	48.99
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	1101259	50.0000	41.749	80.00- 120.00	100.00
7.772	7.772 (0.949)	96	649649			28.99- 88.99	58.99
7.772	7.772 (0.949)	98	406727			6.93- 66.93	36.93
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	1168397	50.0000	33.927	80.00- 120.00	100.00
8.187	8.187 (1.000)	71	256731			0.00- 51.97	21.97
8.187	8.187 (1.000)	72	261811			0.00- 52.57	22.41
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	1222357	50.0000	39.010	80.00- 120.00	100.00
8.325	8.325 (1.017)	85	812235			36.45- 96.45	66.45
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	1447641	50.0000	40.559	80.00- 120.00	100.00
8.574	8.574 (1.047)	99	942922			35.14- 95.14	65.14
74 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	786377	50.0000	39.449	80.00- 120.00	100.00
8.546	8.546 (1.044)	56	1350903			141.79- 201.79	171.79
8.546	8.546 (1.044)	41	935254			88.93- 148.93	118.93
56 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.831)	86	176220	50.0000	37.327	80.00- 120.00	100.00
6.777	6.777 (0.828)	43	2920021			1517.90-1577.90	1657.03
6.777	6.777 (0.828)	42	229582			95.05- 155.05	130.28
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	1481556	50.0000	41.733	80.00- 120.00	100.00
8.823	8.823 (1.078)	117	1527550			73.10- 133.10	103.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	3697785	50.0000	38.986	80.00- 120.00	100.00
9.237	9.237 (1.128)	56	1231640			3.13- 63.13	33.31
9.237	9.237 (1.128)	41	1406012			5.67- 65.67	38.02
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	1523906	50.0000	43.062	80.00- 120.00	100.00
9.237	9.237 (0.918)	77	363330			0.00- 53.63	23.84
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	1238086	50.0000	46.054	80.00- 120.00	100.00
9.403	9.403 (0.934)	64	380446			0.06- 60.06	30.73
90 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	196477	50.0000	40.464	80.00- 120.00	100.00
9.624	9.624 (0.956)	43	1764346			838.33- 898.33	897.99
9.624	9.624 (0.956)	71	537348			240.92- 300.92	273.49
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	675896	50.0000	40.959	80.00- 120.00	100.00
10.482	10.482 (1.041)	130	652532			66.54- 126.54	96.54
10.482	10.482 (1.041)	97	445695			35.94- 95.94	65.94
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	530797	50.0000	40.525	80.00- 120.00	100.00
10.979	10.979 (1.091)	62	423619			49.81- 109.81	79.81
10.979	10.979 (1.091)	41	667367			95.73- 155.73	125.73
99 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	329644	50.0000	43.156	80.00- 120.00	100.00
11.200	11.200 (1.113)	58	301402			61.43- 121.43	91.43
11.200	11.200 (1.113)	57	117206			4.99- 64.99	35.56
100 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	1153180	50.0000	44.162	80.00- 120.00	100.00
11.532	11.532 (1.146)	85	732716			33.54- 93.54	63.54
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	708874	50.0000	42.157	80.00- 120.00	100.00
12.445	12.445 (1.236)	77	216338			0.52- 60.52	30.52
12.445	12.445 (1.236)	39	835421			87.85- 147.85	117.85
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	523860	50.0000	43.752	80.00- 120.00	100.00
12.721	12.721 (1.264)	43	1886460			324.04- 384.04	360.11
12.749	12.749 (1.266)	85	186299			5.91- 65.91	35.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	1496687	50.0000	42.055	80.00- 120.00	100.00
12.942	12.942 (1.286)	92	886290			29.22- 89.22	59.22
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	876366	50.0000	43.929	80.00- 120.00	100.00
13.468	13.468 (0.892)	77	280492			2.01- 62.01	32.01
13.468	13.468 (0.892)	39	838455			65.67- 125.67	95.67
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	523621	50.0000	45.730	80.00- 120.00	100.00
13.744	13.744 (0.910)	99	324108			31.90- 91.90	61.90
13.744	13.744 (0.910)	83	418363			49.90- 109.90	79.90
116 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	705522	50.0000	44.289	80.00- 120.00	100.00
13.799	13.799 (0.914)	129	607092			56.05- 116.05	86.05
13.799	13.799 (0.914)	131	590404			53.68- 113.68	83.68
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	691446	50.0000	42.338	80.00- 120.00	100.00
14.131	14.131 (0.936)	43	1927904			248.82- 308.82	278.82
14.131	14.131 (0.936)	100	115594			0.00- 48.26	16.72
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1096237	50.0000	46.480	80.00- 120.00	100.00
14.297	14.297 (0.947)	127	873972			47.59- 107.59	79.72
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	888835	50.0000	45.133	80.00- 120.00	100.00
14.463	14.463 (0.958)	109	832058			63.61- 123.61	93.61
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1291767	50.0000	43.678	80.00- 120.00	100.00
15.154	15.154 (1.004)	114	425374			2.93- 62.93	32.93
15.154	15.154 (1.004)	77	854243			36.13- 96.13	66.13
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	748695	50.0000	46.011	80.00- 120.00	100.00
15.265	15.265 (1.011)	91	2371653			297.24- 357.24	316.77
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	935986	50.0000	45.729	80.00- 120.00	100.00
15.431	15.431 (1.022)	91	2025431			193.39- 253.39	216.40
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	839317	50.0000	43.904	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	2005984			209.00- 269.00	239.00
133 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	1400283	50.0000	44.589	80.00- 120.00	100.00
16.011	16.011 (1.060)	78	843141			30.21- 90.21	60.21
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	970023	50.0000	47.297	80.00- 120.00	100.00
16.260	16.260 (1.077)	171	517793			23.38- 83.38	53.38
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1122205	50.0000	42.420	80.00- 120.00	100.00
16.896	16.896 (1.119)	85	726957			34.78- 94.78	64.78
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	3226346	50.0000	46.071	80.00- 120.00	100.00
17.062	17.062 (1.130)	120	910349			0.00- 58.22	28.22
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	2712593	50.0000	45.759	80.00- 120.00	100.00
17.145	17.145 (1.135)	120	1226519			14.22- 74.22	45.22
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	2990891	50.0000	45.689	80.00- 120.00	100.00
17.532	17.532 (1.161)	120	1198574			10.07- 70.07	40.07
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	1730872	50.0000	44.155	80.00- 120.00	100.00
17.836	17.836 (1.181)	148	1079071			32.39- 92.39	62.34
17.836	17.836 (1.181)	111	835231			16.65- 76.65	48.25
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1455675	50.0000	44.824	80.00- 120.00	100.00
17.919	17.919 (1.187)	148	909955			32.96- 92.96	62.51
17.919	17.919 (1.187)	111	680335			18.50- 78.50	46.74
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	2539122	50.0000	47.362	80.00- 120.00	100.00
18.058	18.058 (1.196)	126	423841			0.00- 47.51	16.69
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	1822934	50.0000	46.215	80.00- 120.00	100.00
18.279	18.279 (1.211)	148	1127745			31.86- 91.86	61.86
18.279	18.279 (1.211)	111	853655			16.83- 76.83	46.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1229096	50.0000	41.428	80.00- 120.00	100.00
19.578	19.578 (1.297)	182	1159835			64.36- 124.36	94.36
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1078218	50.0000	42.440	80.00- 120.00	100.00
19.661	19.661 (1.302)	223	710803			35.92- 95.92	65.92
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	3423213	50.0000	47.720	80.00- 120.00	100.00
16.924	16.924 (1.121)	120	751702			0.00- 52.34	21.96
16.924	16.924 (1.121)	105	135193			0.00- 33.95	3.95
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	2833391	50.0000	44.398	80.00- 120.00	100.00
16.426	16.426 (1.088)	120	703314			0.00- 54.04	24.82
16.426	16.426 (1.088)	51	487180			0.00- 46.15	17.19
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	3530881	50.0000	41.880	80.00- 120.00	100.00
19.744	19.744 (1.308)	127	457221			0.00- 42.44	12.95
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	2044384	50.0000	40.599	80.00- 120.00	100.00
3.514	3.514 (0.429)	57	1179163			28.21- 88.21	57.68
3.514	3.514 (0.429)	72	104619			0.00- 35.14	5.12
11 Butane					CAS #: 106-97-8		
2.740	2.740 (0.335)	58	370119	50.0000	39.626	80.00- 120.00	100.00
2.740	2.740 (0.335)	43	3019451			783.91- 843.91	815.81
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	885003	50.0000	47.080	80.00- 120.00	100.00
10.703	10.703 (1.063)	98	450231			20.54- 80.54	50.87
10.703	10.703 (1.063)	55	1131847			97.36- 157.36	127.89

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071710.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 13:58
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	198564	119138	277990	224693	13.16
92 1,4-Difluorobenze	742516	445510	1039522	775023	4.38
125 Chlorobenzene-d5	579346	347608	811084	629827	8.71

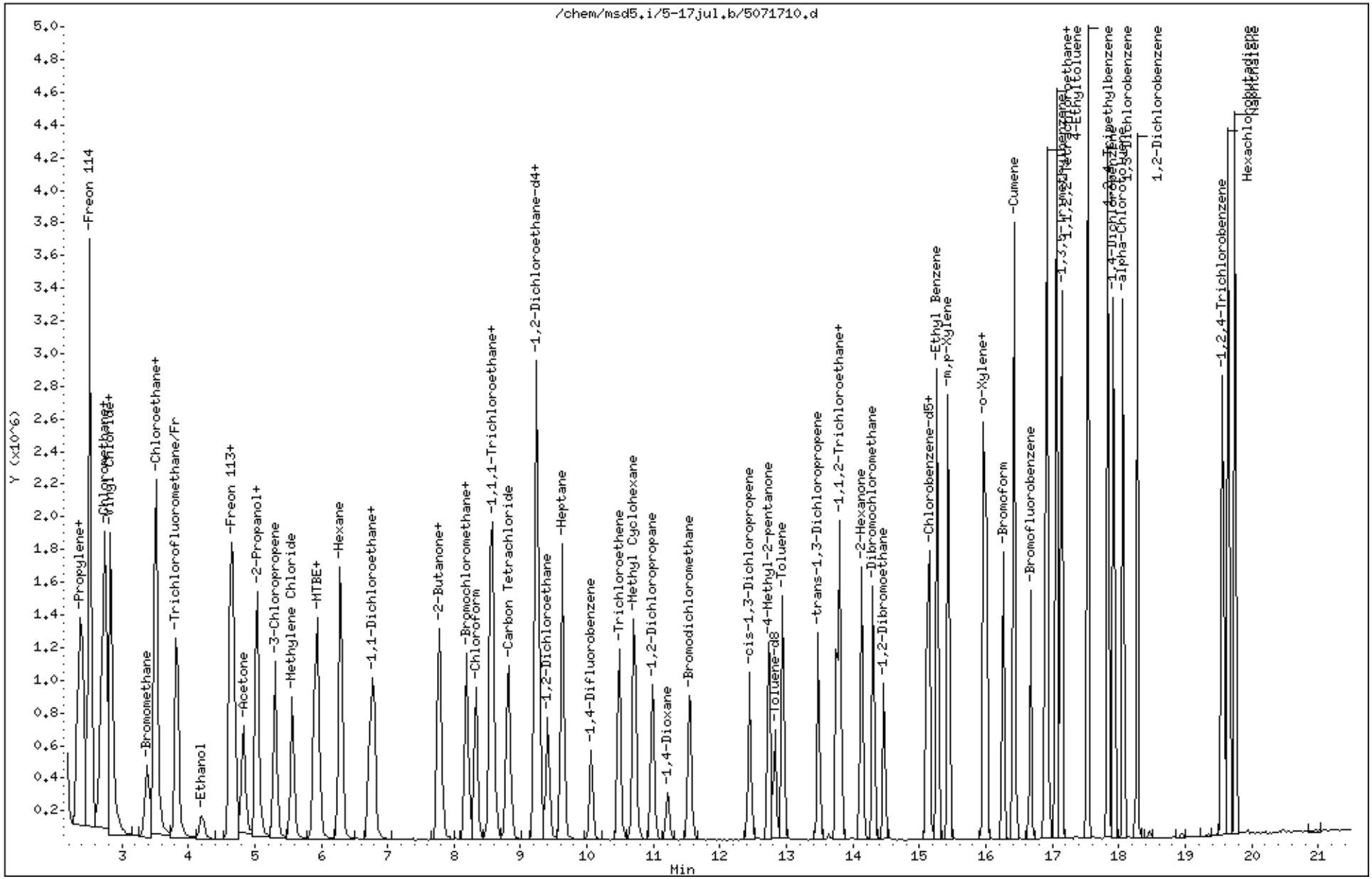
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-17jul.b/5071710.d
Date : 17-JUL-2007 16:00
Client ID: CCV-1
Sample Info: 50ml #1443-151

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0707163-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071711**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/07 04:41 PM**	

Compound	%Recovery
Freon 12	107
Freon 114	113
Vinyl Chloride	112
Bromomethane	120
Chloroethane	104
Freon 11	116
1,1-Dichloroethene	129
Freon 113	131 Q
Methylene Chloride	124
1,1-Dichloroethane	120
cis-1,2-Dichloroethene	123
Chloroform	118
1,1,1-Trichloroethane	120
Carbon Tetrachloride	120
Benzene	115
1,2-Dichloroethane	122
Trichloroethene	106
1,2-Dichloropropane	108
cis-1,3-Dichloropropene	110
Toluene	116
trans-1,3-Dichloropropene	115
1,1,2-Trichloroethane	123
Tetrachloroethene	118
1,2-Dibromoethane (EDB)	116
Chlorobenzene	114
Ethyl Benzene	114
m,p-Xylene	114
o-Xylene	115
Styrene	112
1,1,2,2-Tetrachloroethane	110
1,3,5-Trimethylbenzene	119
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	112
1,3-Butadiene	110
Hexane	113
Cyclohexane	116

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0707163-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5071711**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/07 04:41 PM**	

Compound	%Recovery
Heptane	113
Bromodichloromethane	119
Dibromochloromethane	122
Cumene	119
Propylbenzene	123
Chloromethane	117
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	111
Acetone	119
Carbon Disulfide	120
2-Propanol	121
trans-1,2-Dichloroethene	115
2-Butanone (Methyl Ethyl Ketone)	113
Tetrahydrofuran	102
1,4-Dioxane	115
4-Methyl-2-pentanone	116
2-Hexanone	113
Bromoform	128
4-Ethyltoluene	120
Ethanol	129
Methyl tert-butyl ether	124
3-Chloropropene	116
2,2,4-Trimethylpentane	115
Naphthalene	91

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 17-Jul-2007 16:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-17jul
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: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	53.420	106.84	70-130
9 Freon 114	50.000	56.636	113.27	70-130
10 Chloromethane	50.000	58.511	117.02	70-130
13 Vinyl Chloride	50.000	55.776	111.55	70-130
12 1,3-Butadiene	50.000	54.762	109.52	60-140
15 Bromomethane	50.000	59.990	119.98	70-130
19 Chloroethane	50.000	52.251	104.50	70-130
20 Trichlorofluoromet	50.000	57.772	115.54	70-130
26 Ethanol	50.000	64.480	128.96	60-140
30 Freon 113	50.000	65.553	131.11*	70-130
31 1,1-Dichloroethene	50.000	64.356	128.71	70-130
35 Carbon Disulfide	50.000	60.266	120.53	60-140
32 Acetone	50.000	59.323	118.65	60-140
36 2-Propanol	50.000	60.641	121.28	60-140
38 3-Chloropropene	50.000	58.096	116.19	60-140
43 Methylene Chloride	50.000	61.930	123.86	70-130
46 MTBE	50.000	61.969	123.94	60-140
47 trans-1,2-Dichloro	50.000	57.657	115.31	60-140
51 Hexane	50.000	56.706	113.41	60-140
55 1,1-Dichloroethane	50.000	60.262	120.52	70-130
66 cis-1,2-Dichloroet	50.000	61.541	123.08	70-130
67 2-Butanone	50.000	56.647	113.29	60-140
70 Tetrahydrofuran	50.000	50.918	101.84	60-140
72 Chloroform	50.000	59.095	118.19	70-130
74 Cyclohexane	50.000	58.057	116.11	60-140
75 1,1,1-Trichloroeth	50.000	60.109	120.22	70-130
56 Vinyl Acetate	50.000	57.540	115.08	60-140
77 Carbon Tetrachlori	50.000	60.084	120.17	70-130
80 2,2,4-Trimethylpen	50.000	57.386	114.77	60-140
81 Benzene	50.000	57.588	115.18	70-130
85 1,2-Dichloroethane	50.000	61.161	122.32	70-130
90 Heptane	50.000	56.489	112.98	60-140
93 Trichloroethene	50.000	53.155	106.31	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	53.823	107.65	70-130
99 1,4-Dioxane	50.000	57.430	114.86	60-140
100 Bromodichlorometha	50.000	59.325	118.65	60-140
103 cis-1,3-Dichloropr	50.000	54.870	109.74	70-130
106 4-Methyl-2-pentano	50.000	57.916	115.83	60-140
108 Toluene	50.000	57.842	115.68	70-130
113 trans-1,3-Dichloro	50.000	57.596	115.19	70-130
114 1,1,2-Trichloroeth	50.000	61.552	123.11	70-130
116 Tetrachloroethene	50.000	59.064	118.13	70-130
119 2-Hexanone	50.000	56.386	112.77	60-140
120 Dibromochlorometha	50.000	61.134	122.27	60-140
122 1,2-Dibromoethane	50.000	58.168	116.34	70-130
126 Chlorobenzene	50.000	57.167	114.33	70-130
128 Ethyl Benzene	50.000	56.788	113.58	70-130
130 m,p-Xylene	50.000	57.040	114.08	70-130
132 o-Xylene	50.000	57.543	115.09	70-130
133 Styrene	50.000	55.983	111.97	70-130
134 Bromoform	50.000	63.853	127.71	60-140
136 Cumene	50.000	59.360	118.72	60-140
141 1,1,2,2-Tetrachlor	50.000	55.251	110.50	70-130
142 Propylbenzene	50.000	61.588	123.18	60-140
144 4-Ethyltoluene	50.000	59.996	119.99	60-140
147 1,3,5-Trimethylben	50.000	59.529	119.06	70-130
152 1,2,4-Trimethylben	50.000	58.061	116.12	70-130
155 1,3-Dichlorobenzen	50.000	56.711	113.42	70-130
156 1,4-Dichlorobenzen	50.000	57.198	114.40	70-130
157 alpha-Chlorotoluen	50.000	59.572	119.14	70-130
159 1,2-Dichlorobenzen	50.000	56.055	112.11	70-130
163 1,2,4-Trichloroben	50.000	49.364	98.73	70-130
164 Hexachlorobutadien	50.000	55.351	110.70	70-130
6 Propylene	50.000	58.984	117.97	70-130
165 Naphthalene	50.000	45.548	91.10	60-140
11 Butane	50.000	56.804	113.61	70-130
17 Isopentane	50.000	57.844	115.69	70-130
94 Methyl Cyclohexane	50.000	61.636	123.27	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.703	102.81	70-130
$ 107 Toluene-d8	25.000	24.448	97.79	70-130
$ 138 Bromofluorobenzene	25.000	25.099	100.40	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jul.b/5071711.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 17-JUL-2007 16:41
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1443-147
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-17jul.b/t14q710b.m
Meth Date : 17-Jul-2007 16:10 lrandolp Quant Type: ISTD
Cal Date : 17-JUL-2007 13:31 Cal File: 5071706.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	216277	25.0000		80.00- 120.00	100.00
8.187	8.187 (1.000)	128	177728			45.26- 105.26	82.18
8.187	8.187 (1.000)	49	491624			176.99- 236.99	227.31
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	840844	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	146124			0.00- 46.60	17.38
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	672787	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	417827			0.00- 30.00	62.10
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	452558	25.7031	25.703	80.00- 120.00	100.00
9.265	9.265 (1.132)	67	231075			28.18- 88.18	51.06
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	715484	24.4483	24.448	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	80743			0.00- 41.76	11.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	482551			41.06- 101.06	67.44
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	459722	25.0989	25.099	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	683751			127.53- 187.53	148.73
16.675	16.675 (1.104)	176	447369			72.13- 132.13	97.31
6 Propylene					CAS #: 115-07-1		
2.325	2.325 (0.284)	41	2180157	58.9845	58.984	80.00- 120.00	100.00
2.325	2.325 (0.284)	42	1464457			36.39- 96.39	67.17
2.325	2.325 (0.284)	39	1531297			38.20- 98.20	70.24
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	3451493	53.4201	53.420	80.00- 120.00	100.00
2.408	2.408 (0.294)	87	1121971			2.80- 62.80	32.51
9 Freon 114					CAS #: 76-14-2		
2.519	2.519 (0.308)	135	3192624	56.6360	56.636	80.00- 120.00	100.00
2.519	2.519 (0.308)	137	1006732			1.77- 61.77	31.53
10 Chloromethane					CAS #: 74-87-3		
2.657	2.684 (0.325)	50	2399373	58.5109	58.511	80.00- 120.00	100.00
2.657	2.657 (0.325)	52	682079			0.00- 59.59	28.43
13 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	1915198	55.7762	55.776	80.00- 120.00	100.00
2.850	2.850 (0.348)	64	589755			0.94- 60.94	30.79
12 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.823 (0.345)	54	1782878	54.7619	54.762	80.00- 120.00	100.00
2.823	2.823 (0.345)	39	2160025			79.13- 139.13	121.15
15 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	1247586	59.9903	59.990	80.00- 120.00	100.00
3.376	3.376 (0.412)	96	1191565			66.35- 126.35	95.51
19 Chloroethane					CAS #: 75-00-3		
3.486	3.486 (0.426)	64	905353	52.2510	52.251	80.00- 120.00	100.00
3.486	3.486 (0.426)	49	301464			1.23- 61.23	33.30
3.486	3.486 (0.426)	66	260925			0.00- 59.50	28.82
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.818 (0.466)	101	3231508	57.7717	57.772	80.00- 120.00	100.00
3.818	3.818 (0.466)	103	2108897			33.39- 93.39	65.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.205	4.205 (0.514)	45	718736	64.4802	64.480	80.00- 120.00	100.00
4.205	4.205 (0.514)	43	148978			0.00- 50.63	20.73
4.205	4.205 (0.514)	46	308155			12.88- 72.88	42.87
30 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.568)	151	1977310	65.5531	65.553	80.00- 120.00	100.00(R)
4.648	4.648 (0.568)	153	1230162			35.93- 95.93	62.21
4.648	4.648 (0.568)	101	2451823			99.22- 159.22	124.00
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	2407929	64.3556	64.356	80.00- 120.00	100.00
4.675	4.675 (0.571)	96	1237049			19.02- 79.02	51.37
4.675	4.675 (0.571)	98	782351			1.55- 61.55	32.49
32 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	709511	59.3230	59.323	80.00- 120.00	100.00
4.841	4.841 (0.591)	43	2863787			345.94- 405.94	403.63
36 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	3126206	60.6414	60.641	80.00- 120.00	100.00
5.035	5.035 (0.615)	43	652877			0.00- 51.25	20.88
5.035	5.035 (0.615)	59	100875			0.00- 33.26	3.23
35 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	3299220	60.2663	60.266	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	520800	58.0966	58.096	80.00- 120.00	100.00
5.311	5.311 (0.649)	41	2450074			428.29- 488.29	470.44
43 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	1948626	61.9298	61.930	80.00- 120.00	100.00
5.560	5.560 (0.679)	84	960390			19.01- 79.01	49.29
5.560	5.560 (0.679)	51	577134			0.00- 59.62	29.62
46 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	2043854	61.9695	61.969	80.00- 120.00	100.00
5.892	5.892 (0.720)	57	651150			3.19- 63.19	31.86
5.892	5.892 (0.720)	41	749579			5.82- 65.82	36.67
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	1139570	57.6572	57.657	80.00- 120.00	100.00
5.947	5.947 (0.726)	61	1994776			143.47- 203.47	175.05
5.947	5.947 (0.726)	98	751619			34.11- 94.11	65.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	2298216	56.7060	56.706	80.00- 120.00	100.00
6.279	6.279 (0.767)	43	1791135			48.00- 108.00	77.94
6.307	6.306 (0.770)	86	338077			0.00- 43.50	14.71
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	2134127	60.2617	60.262	80.00- 120.00	100.00
6.721	6.721 (0.821)	65	632183			0.00- 59.68	29.62
67 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	407291	56.6472	56.647	80.00- 120.00	100.00
7.800	7.800 (0.953)	43	3050467			699.13- 759.13	748.96
7.800	7.800 (0.953)	57	178383			17.94- 77.94	43.80
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	1562542	61.5411	61.541	80.00- 120.00	100.00
7.772	7.772 (0.949)	96	915332			28.99- 88.99	58.58
7.772	7.772 (0.949)	98	600427			6.93- 66.93	38.43
70 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	1687891	50.9184	50.918	80.00- 120.00	100.00
8.187	8.187 (1.000)	71	354223			0.00- 51.97	20.99
8.187	8.187 (1.000)	72	381574			0.00- 52.57	22.61
72 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	1782368	59.0952	59.095	80.00- 120.00	100.00
8.325	8.325 (1.017)	85	1196517			36.45- 96.45	67.13
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	2065076	60.1091	60.109	80.00- 120.00	100.00
8.574	8.574 (1.047)	99	1313056			35.14- 95.14	63.58
74 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	1113951	58.0569	58.057	80.00- 120.00	100.00
8.546	8.546 (1.044)	56	1917063			141.79- 201.79	172.10
8.546	8.546 (1.044)	41	1285540			88.93- 148.93	115.40
56 Vinyl Acetate					CAS #: 108-05-4		
6.777	6.804 (0.828)	86	261466	57.5396	57.540	80.00- 120.00	100.00
6.777	6.777 (0.828)	43	4307176			1517.90-1577.90	1647.31
6.777	6.777 (0.828)	42	354936			95.05- 155.05	135.75
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	2053155	60.0845	60.084	80.00- 120.00	100.00
8.823	8.823 (1.078)	117	2135022			73.10- 133.10	103.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	5239125	57.3859	57.386	80.00- 120.00	100.00
9.237	9.237 (1.128)	56	1725035			3.13- 63.13	32.93
9.237	9.237 (1.128)	41	1918349			5.67- 65.67	36.62
81 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	2211073	57.5884	57.588	80.00- 120.00	100.00
9.237	9.237 (0.918)	77	500229			0.00- 53.63	22.62
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	1783861	61.1610	61.161	80.00- 120.00	100.00
9.403	9.403 (0.934)	64	539650			0.06- 60.06	30.25
90 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	297583	56.4887	56.489	80.00- 120.00	100.00
9.624	9.624 (0.956)	43	2472002			838.33- 898.33	830.69
9.624	9.624 (0.956)	71	764392			240.92- 300.92	256.87
93 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	951633	53.1547	53.155	80.00- 120.00	100.00
10.482	10.482 (1.041)	130	925758			66.54- 126.54	97.28
10.482	10.482 (1.041)	97	625018			35.94- 95.94	65.68
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	764842	53.8228	53.823	80.00- 120.00	100.00
10.979	10.979 (1.091)	62	593945			49.81- 109.81	77.66
10.979	10.979 (1.091)	41	936223			95.73- 155.73	122.41
99 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	475940	57.4305	57.430	80.00- 120.00	100.00
11.200	11.200 (1.113)	58	439426			61.43- 121.43	92.33
11.200	11.200 (1.113)	57	162952			4.99- 64.99	34.24
100 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.532 (1.148)	83	1680709	59.3255	59.325	80.00- 120.00	100.00
11.560	11.532 (1.148)	85	1046337			33.54- 93.54	62.26
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	1001007	54.8703	54.870	80.00- 120.00	100.00
12.445	12.445 (1.236)	77	327111			0.52- 60.52	32.68
12.445	12.445 (1.236)	39	1149307			87.85- 147.85	114.82
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	752337	57.9157	57.916	80.00- 120.00	100.00
12.721	12.721 (1.264)	43	2741197			324.04- 384.04	364.36
12.749	12.749 (1.266)	85	287726			5.91- 65.91	38.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	2233332	57.8419	57.842	80.00- 120.00	100.00
12.942	12.942 (1.286)	92	1297793			29.22- 89.22	58.11
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	1227382	57.5958	57.596	80.00- 120.00	100.00
13.468	13.468 (0.892)	77	378840			2.01- 62.01	30.87
13.468	13.468 (0.892)	39	1174870			65.67- 125.67	95.72
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	752874	61.5525	61.552	80.00- 120.00	100.00
13.744	13.744 (0.910)	99	450516			31.90- 91.90	59.84
13.744	13.744 (0.910)	83	575400			49.90- 109.90	76.43
116 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.799 (0.914)	166	1005050	59.0637	59.064	80.00- 120.00	100.00
13.800	13.799 (0.914)	129	873425			56.05- 116.05	86.90
13.800	13.799 (0.914)	131	815682			53.68- 113.68	81.16
119 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	983690	56.3859	56.386	80.00- 120.00	100.00
14.131	14.131 (0.936)	43	2707755			248.82- 308.82	275.26
14.131	14.131 (0.936)	100	178453			0.00- 48.26	18.14
120 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1540203	61.1338	61.134	80.00- 120.00	100.00
14.297	14.297 (0.947)	127	1206134			47.59- 107.59	78.31
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	1223678	58.1676	58.168	80.00- 120.00	100.00
14.463	14.463 (0.958)	109	1138054			63.61- 123.61	93.00
126 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1806058	57.1675	57.167	80.00- 120.00	100.00
15.154	15.154 (1.004)	114	573207			2.93- 62.93	31.74
15.154	15.154 (1.004)	77	1142538			36.13- 96.13	63.26
128 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	987087	56.7876	56.788	80.00- 120.00	100.00
15.265	15.265 (1.011)	91	3297910			297.24- 357.24	334.11
130 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	1247128	57.0401	57.040	80.00- 120.00	100.00
15.431	15.431 (1.022)	91	2799243			193.39- 253.39	224.46
132 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	1175105	57.5433	57.543	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.956	15.956 (1.057)	91	2752264			209.00- 269.00	234.21
133 Styrene					CAS #: 100-42-5		
16.012	16.011 (1.060)	104	1878007	55.9830	55.983	80.00- 120.00	100.00
16.012	16.011 (1.060)	78	1166164			30.21- 90.21	62.10
134 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	1398903	63.8531	63.853	80.00- 120.00	100.00
16.260	16.260 (1.077)	171	711057			23.38- 83.38	50.83
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1561323	55.2511	55.251	80.00- 120.00	100.00
16.896	16.896 (1.119)	85	1001878			34.78- 94.78	64.17
144 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	4488107	59.9962	59.996	80.00- 120.00	100.00
17.062	17.062 (1.130)	120	1265100			0.00- 58.22	28.19
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	3769578	59.5287	59.529	80.00- 120.00	100.00
17.145	17.145 (1.135)	120	1632786			14.22- 74.22	43.31
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	4060010	58.0608	58.061	80.00- 120.00	100.00
17.532	17.532 (1.161)	120	1660896			10.07- 70.07	40.91
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	2374699	56.7112	56.711	80.00- 120.00	100.00
17.836	17.836 (1.181)	148	1504070			32.39- 92.39	63.34
17.836	17.836 (1.181)	111	1120007			16.65- 76.65	47.16
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1984231	57.1985	57.198	80.00- 120.00	100.00
17.919	17.919 (1.187)	148	1273668			32.96- 92.96	64.19
17.919	17.919 (1.187)	111	953088			18.50- 78.50	48.03
157 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	3411534	59.5722	59.572	80.00- 120.00	100.00
18.058	18.058 (1.196)	126	597457			0.00- 47.51	17.51
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	2361881	56.0551	56.055	80.00- 120.00	100.00
18.279	18.279 (1.211)	148	1499922			31.86- 91.86	63.51
18.279	18.279 (1.211)	111	1157927			16.83- 76.83	49.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1564412	49.3636	49.364	80.00- 120.00	100.00
19.578	19.578 (1.297)	182	1482207			64.36- 124.36	94.75
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1502151	55.3510	55.351	80.00- 120.00	100.00
19.661	19.661 (1.302)	223	908796			35.92- 95.92	60.50
142 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	4719430	61.5885	61.588	80.00- 120.00	100.00
16.924	16.924 (1.121)	120	1028531			0.00- 52.34	21.79
16.924	16.924 (1.121)	105	186654			0.00- 33.95	3.96
136 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	4046622	59.3597	59.360	80.00- 120.00	100.00
16.426	16.426 (1.088)	120	1009327			0.00- 54.04	24.94
16.426	16.426 (1.088)	51	714106			0.00- 46.15	17.65
165 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	4102045	45.5483	45.548	80.00- 120.00	100.00
19.744	19.744 (1.308)	127	507924			0.00- 42.44	12.38
17 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	2803662	57.8444	57.844	80.00- 120.00	100.00
3.514	3.514 (0.429)	57	1602430			28.21- 88.21	57.15
3.514	3.514 (0.429)	72	146078			0.00- 35.14	5.21
11 Butane					CAS #: 106-97-8		
2.740	2.740 (0.335)	58	510698	56.8045	56.804	80.00- 120.00	100.00
2.740	2.740 (0.335)	43	4216701			783.91- 843.91	825.67
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	1257042	61.6363	61.636	80.00- 120.00	100.00
10.703	10.703 (1.063)	98	648111			20.54- 80.54	51.56
10.703	10.703 (1.063)	55	1626148			97.36- 157.36	129.36

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5071711.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-17jul.b/t14q710b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 17-JUL-2007
Calibration Time: 16:00
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	224693	134816	314570	216277	-3.75
92 1,4-Difluorobenze	775023	465014	1085032	840844	8.49
125 Chlorobenzene-d5	629827	377896	881758	672787	6.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
92 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
125 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

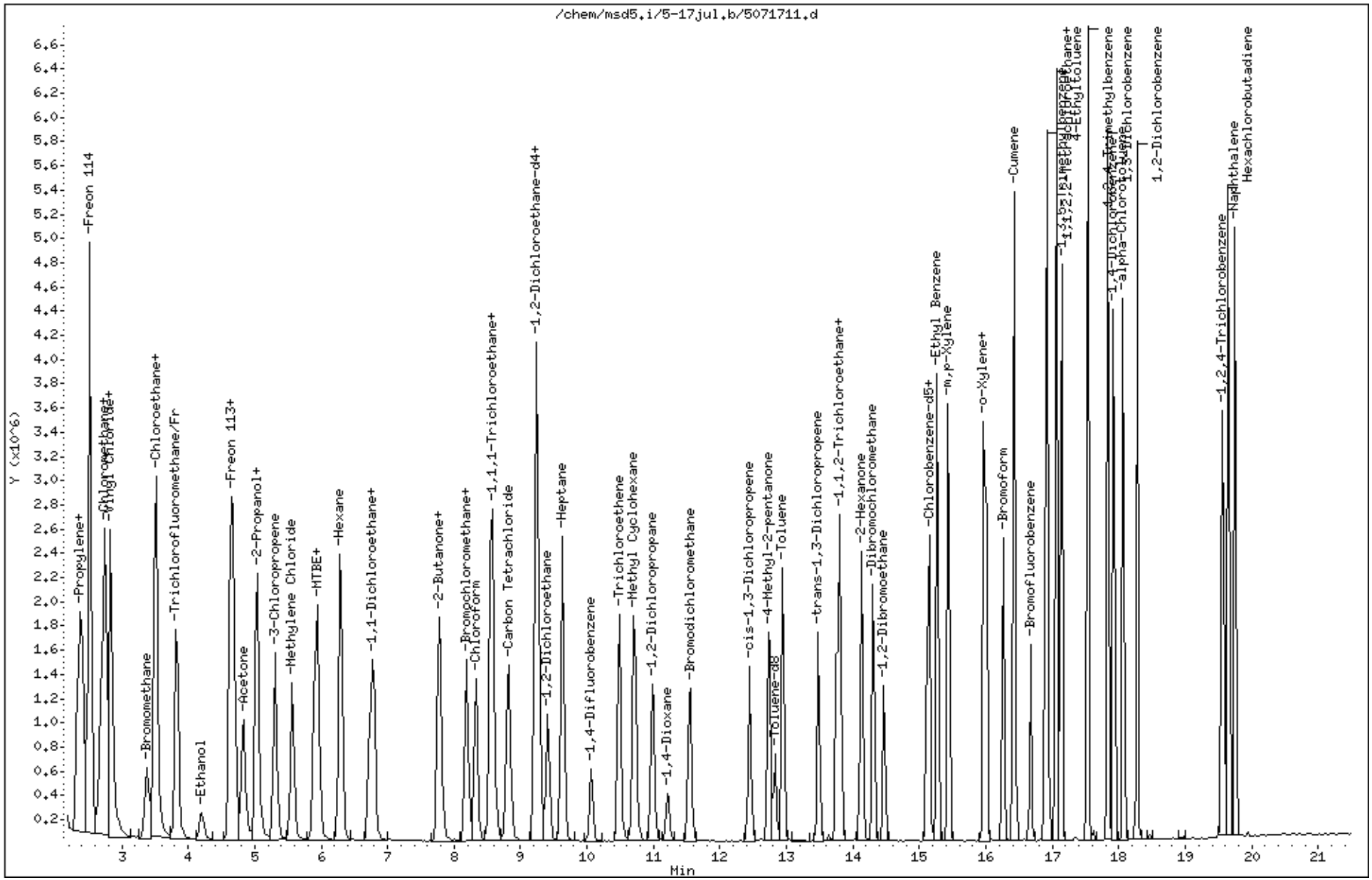
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0194

Data File: /chem/msd5.i/5-17jul.b/5071711.d
Date : 17-JUL-2007 16:41
Client ID: LCS-1
Sample Info: 50ml #1443-147

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

Column phase: RTx-624



@ Air Toxics Ltd.

MSD-5

Logbook #: 1523

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	39.77
75	30.0 – 60.0% of mass 95	58.76
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.20
173	Less than 2.0% of mass 174	(1.17)[1]
174	Greater than 50.0% of mass 95	52.22
175	5.0 – 9.0% of mass 174	(6.80)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.82)[1] ✓
177	5.0 – 9.0% of mass 176	(6.88)[2]

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

BFB Injection Date: 7/17/07
BFB Injection Time: 0845
BFB File ID: 5071701
Tekmar Purge Flow:
Vacuum: 7 LR 7/17/07

IS/S Std.#: 1487-311	Exp. Date: 9/10/07
BCM	224693
1,4-DFB	775023
CB-d5	629827

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

0195

Verify 176/174 m/z Ratio: ~~(220880/401856 x100~~ LR 7/17/07
481920/492672 x100 = 97.82

NOAH Cart #: 7/15 File #: U071708 | 5071709

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 681240\ )}{(\ 775023\ )} \times \frac{(\ 25\ )}{(\ 0.87012\ )} = 25.255$

File ID:	5071710
Compound:	Tol-d8
Initials:	LR

Reported Result 25.255

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5071701	BFB Tune Check	643-2480	50ng	2µl	1.00	LR	7/17/07	0845	LR	Apex-1
2	✓	02	ICAL Level 3(20ppb)	1487-341	20ppbv	2ml				0935	LR	
3	✓	03	5		50ppbv	50ml				1003	LR	sp226CCV
4	✓	04	7		200ppbv	200ml	↓	↓		1036	LR	
5		05	ICAL Level 3(20ppb)	~~1487-336~~	2ppbv	2ml						
6		06	5		50ppbv	50ml						
7		~~07~~	7		~~200ppbv~~	200ml	LR 7/17/07					
8	✗	05	System Blank	12941	humid	200ml	1.00	LR		1303	LR	
9	✓	06	ICAL Level 3(20ppb)	1487-336	2ppbv	2ml	↓	↓	↓	1331	LR	

Signature

7/17/07
Date

10	✓	5071707	ICAL levels (200ppbv)	1457-3516	50ppbv	50ml	1.00	LR	7/17/07	1358	LR	SpkSCCVb		
11	✓	08	↓ 7 ↓	↓	200ppbv	200ml	↓	↓		1431	LR			
12	✓	09	System Blank	1294|	humid	200ml	1.00	LR		1533	LR		
13	✓	10	CCV-1 (200ppbv)	1443-151	50ppbv	50ml	↓	↓		1600	LR			
14	✓	11	LCS-1 (200ppbv)	1443-147	|	|	1.00	LR		1624	SS			
15	✓	12	Lab Blank	1294| 15615	Humid	200ml	1.00	SS		1733	SS			
16	✓	5071713	07071163-01A	4242	10.5%-5psi	200ml	2.36	SS		1828	SS			
17	✓	14	↓ 02A	4218 4242	11.0%		2.12			1902	SS			
18	✓	15	07071165-01A	03595 4218	12.0%		2.23			1933	SS			
19	✓	16	07071166A-02A	34375 03595	8.0%		1.34			2006	SS			
20	✓	17	03A	34023 34375	4.0%		1.55			2039	SS			
21	✓	18	04A	5-5 34023	6.5%		1.71			2114	SS			
22	✓	19	05A	1592 R-5	6.0%	115ml	2.12			2140	SS			
23	✓	20	01A	34316	2.5%	25ml	11.7		7/18/07	2208	LR			
24	✓	21	07072165A-01A	4294	4.0 "As" Spk	200mL	1.55	LR	7/18/07	0042	LR			
25	✓	22	-01AA	4294	4.0		1.55			0115	LR			
26	✓	23	-02A	23886	2.0		1.44			0147	LR			
27	✓	24	-03A	9551	7.0		1.175			0219	LR			
28	✓	25	-04A	34491	3.5		1.52			0252	LR			
29	✓	26	-05A	34248	3.5		1.52			0324	LR			
30	✓	27	-06A	29307	5.5		1.64			0357	LR			
31	X	28	07072169A-01A	33779	3.0	20mL	14.9			0424	—	RR @ 200mL		
32	X	29	-02A	33570	2.5	20mL	7450			0452	—	500 X RRF 0.6A		
	✓	30	-01A	33779	3.0	200mL	1.49	LR	7/18/07	0607	LR			
	✓	31	-02A	33570	2.5	0.6mL	487	LR		0635	LR			

Comments:

C Thiel

7-18-07
Date

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-10jul.b/5071003.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 10-JUL-2007 13:34
Operator : db Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-10jul.b/bfb30.m
Meth Date : 10-Jul-2007 13:08 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.860	3.900	-0.040	95	763776			100.00- 100.00	100.00
3.860	3.900	-0.040	50	270462			15.00- 40.00	35.41
3.860	3.900	-0.040	75	451762			30.00- 60.00	59.15
3.860	3.900	-0.040	96	48619			5.00- 9.00	6.37
3.860	3.900	-0.040	173	3877			0.00- 2.00	0.78
3.860	3.900	-0.040	174	494869			50.00- 100.00	64.79
3.860	3.900	-0.040	175	35077			5.00- 9.00	7.09
3.860	3.900	-0.040	176	476309			95.00- 101.00	96.25
3.860	3.900	-0.040	177	29709			5.00- 9.00	6.24

Data File: /var/chem/msd5.i/5-10jul.b/5071003.d

Date : 10-JUL-2007 13:34

Client ID: BFB

Instrument: msd5.i

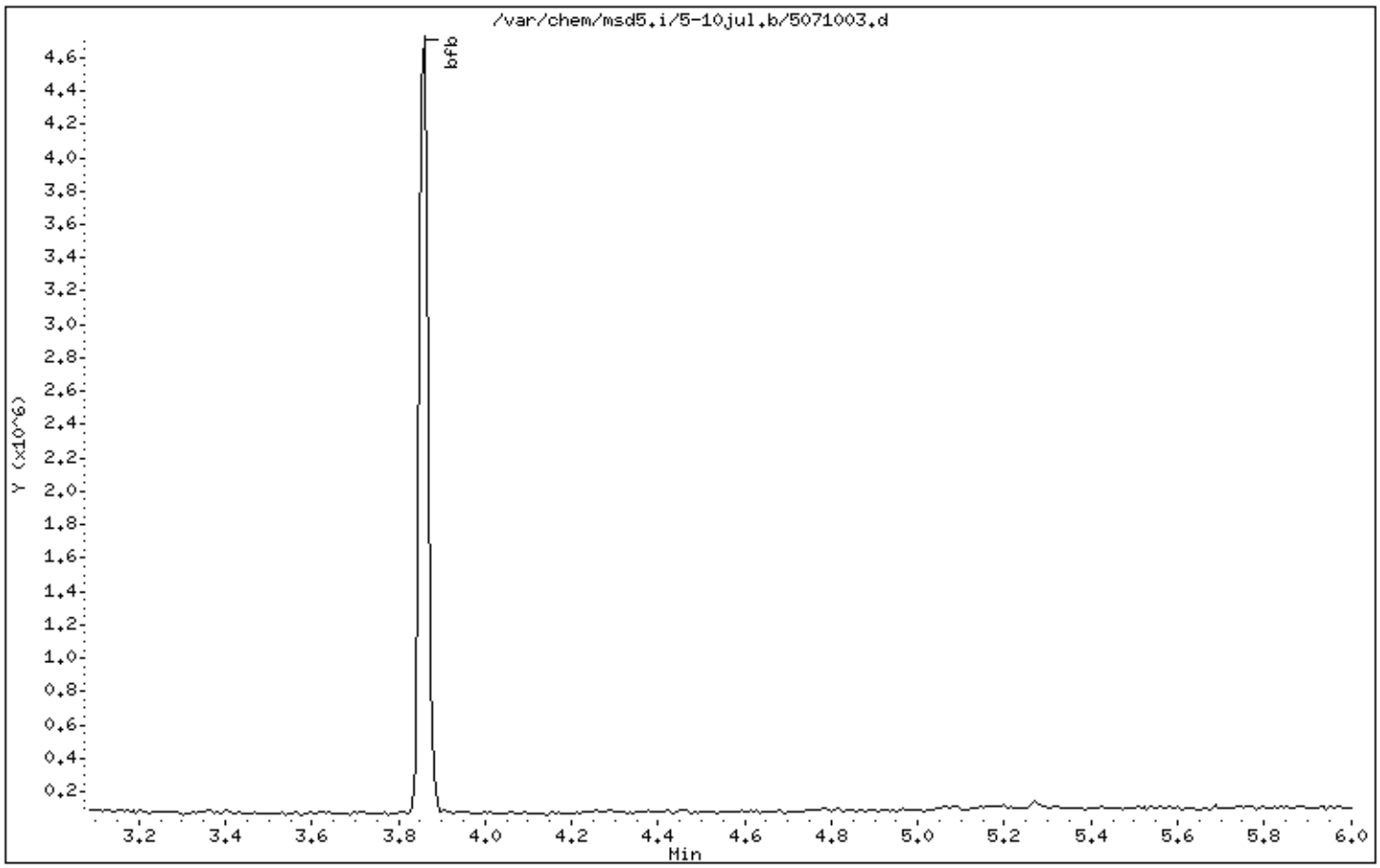
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-10jul.b/5071003.d

Date : 10-JUL-2007 13:34

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

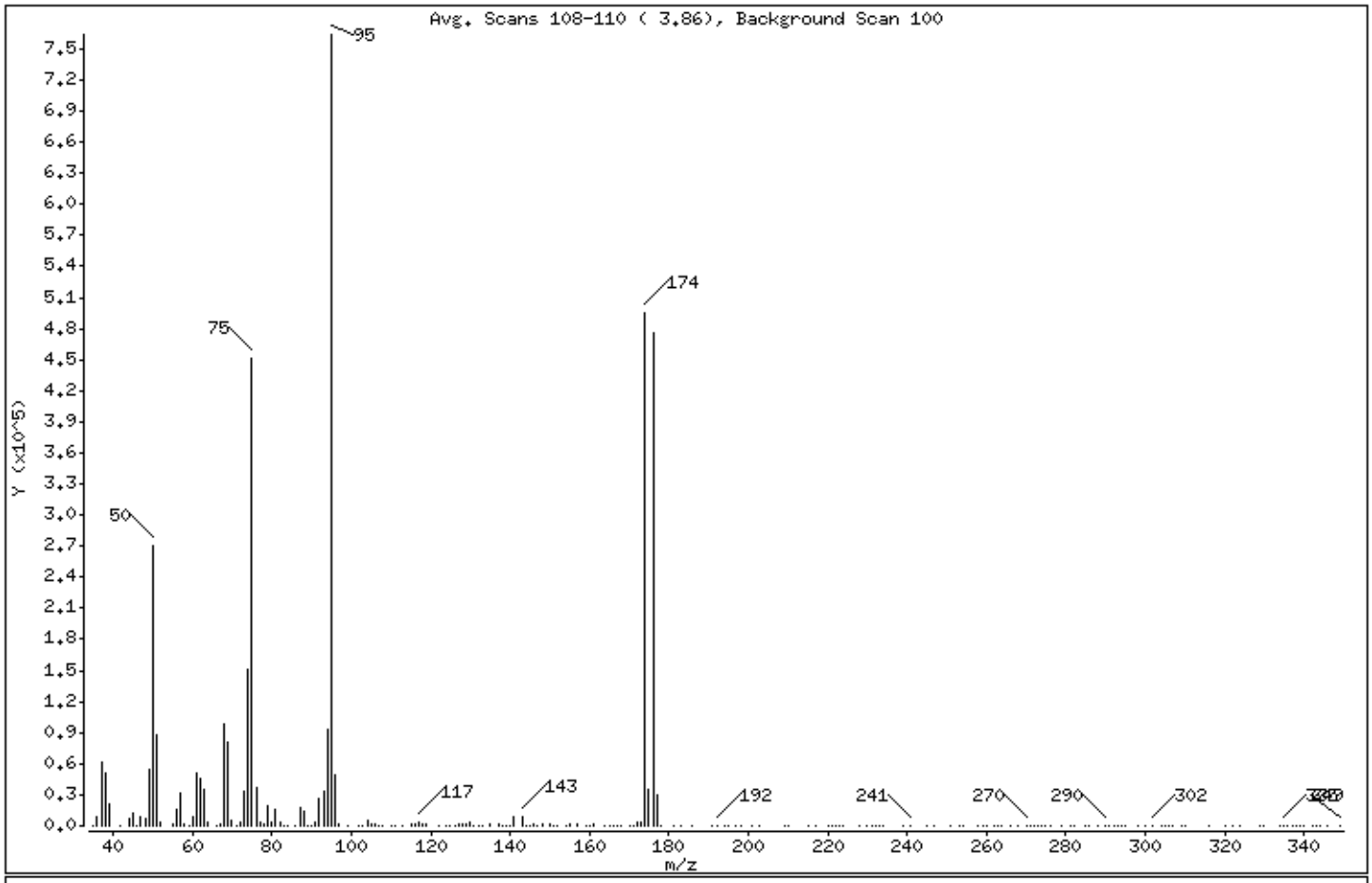
Volume Injected (uL): 1.0

Operator: db

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	35.41
75	30.00 - 60.00% of mass 95	59.15
96	5.00 - 9.00% of mass 95	6.37
173	Less than 2.00% of mass 174	0.51 (0.78)
174	50.00 - 100.00% of mass 95	64.79
175	5.00 - 9.00% of mass 174	4.59 (7.09)
176	95.00 - 101.00% of mass 174	62.36 (96.25)
177	5.00 - 9.00% of mass 176	3.89 (6.24)

Date : 10-JUL-2007 13:34

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00

Data File: 5071003.d
Spectrum: Avg. Scans 108-110 (3.86), Background Scan 100
Location of Maximum: 95.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	318	94.00	92992	164.00	305	264.00	236
36.00	9112	95.00	763776	165.00	301	266.00	126
37.00	61648	96.00	48616	166.00	378	268.00	243
38.00	50832	97.00	1695	167.00	206	270.00	635
39.00	20616	99.00	83	168.00	284	271.00	53
42.00	39	102.00	105	170.00	517	272.00	93
44.00	6766	103.00	756	171.00	684	273.00	355
45.00	12742	104.00	4630	172.00	2720	274.00	146
46.00	604	105.00	1076	173.00	3877	275.00	96
47.00	9365	106.00	2452	174.00	494848	276.00	167
48.00	7649	107.00	374	175.00	35072	279.00	142
49.00	54784	108.00	73	176.00	476288	281.00	391
50.00	270400	110.00	231	177.00	29704	282.00	212
51.00	88016	111.00	458	178.00	425	285.00	217
52.00	2959	113.00	769	181.00	141	286.00	62
55.00	2389	115.00	909	183.00	258	288.00	66
56.00	15492	116.00	2545	186.00	212	290.00	434
57.00	31136	117.00	3465	191.00	432	291.00	265
58.00	1400	118.00	2158	192.00	489	292.00	160
59.00	142	119.00	2090	194.00	113	293.00	203
60.00	8081	122.00	170	195.00	389	294.00	203
61.00	50392	124.00	485	197.00	106	295.00	161
62.00	46336	125.00	252	198.00	122	298.00	75
63.00	34744	126.00	769	201.00	407	300.00	107
64.00	3077	127.00	1303	203.00	194	302.00	398
66.00	59	128.00	2157	209.00	204	304.00	373
67.00	2468	129.00	1222	210.00	15	305.00	285
68.00	97688	130.00	3423	215.00	227	306.00	156
69.00	81592	131.00	851	217.00	150	307.00	250
70.00	6143	132.00	606	220.00	234	309.00	202
71.00	641	133.00	588	221.00	52	310.00	100
72.00	4089	135.00	1074	222.00	181	316.00	69
73.00	33136	137.00	2083	223.00	144	320.00	134
74.00	150912	138.00	391	224.00	61	322.00	60
75.00	451712	139.00	86	228.00	325	324.00	133

Date : 10-JUL-2007 13:34

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00

Data File: 5071003.d
Spectrum: Avg. Scans 108-110 (3.86), Background Scan 100
Location of Maximum: 95.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	36384	140.00	218	230.00	305	329.00	57
77.00	2970	141.00	8775	231.00	89	330.00	367
78.00	1769	143.00	9019	232.00	341	334.00	241
79.00	19952	144.00	151	233.00	495	335.00	533
80.00	3894	145.00	456	234.00	293	336.00	117
81.00	16416	146.00	1068	239.00	386	337.00	97
82.00	3137	147.00	245	241.00	587	338.00	211
83.00	735	148.00	2386	245.00	333	339.00	158
84.00	581	150.00	1234	247.00	93	340.00	79
86.00	462	151.00	686	251.00	191	342.00	76
87.00	18200	152.00	815	253.00	54	343.00	96
88.00	13756	154.00	699	254.00	328	344.00	517
89.00	98	155.00	1874	258.00	129	346.00	163
90.00	100	157.00	1478	259.00	132	349.00	54
91.00	2773	159.00	822	260.00	626		
92.00	26168	160.00	162	262.00	70		
93.00	33424	161.00	910	263.00	137		

Air Toxics Ltd.

Data file : /chem/msd5.i/5-17jul.b/5071701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 17-JUL-2007 08:45
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-17jul.b/bfb30.m
Meth Date : 17-Jul-2007 08:37 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.853	3.900	-0.047	95	943488			100.00- 100.00	100.00
3.853	3.900	-0.047	50	375232			15.00- 40.00	39.77
3.853	3.900	-0.047	75	554432			30.00- 60.00	58.76
3.853	3.900	-0.047	96	58512			5.00- 9.00	6.20
3.853	3.900	-0.047	173	5781			0.00- 2.00	1.17
3.853	3.900	-0.047	174	492672			50.00- 100.00	52.22
3.853	3.900	-0.047	175	33504			5.00- 9.00	6.80
3.853	3.900	-0.047	176	481920			95.00- 101.00	97.82
3.853	3.900	-0.047	177	33152			5.00- 9.00	6.88

Data File: /chem/msd5.i/5-17jul.b/5071701.d

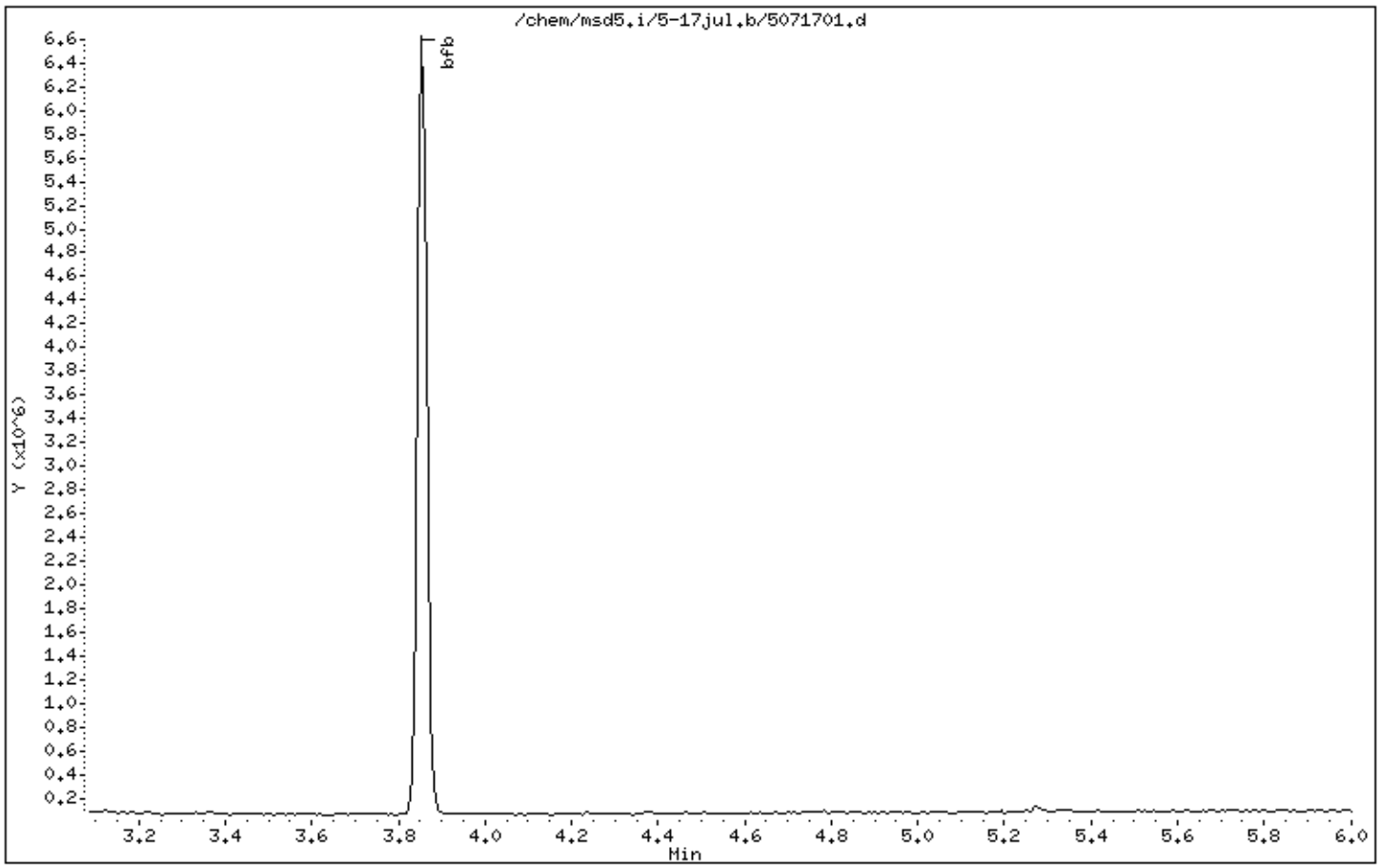
Date : 17-JUL-2007 08:45

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msd5.i/5-17jul.b/5071701.d

Date : 17-JUL-2007 08:45

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

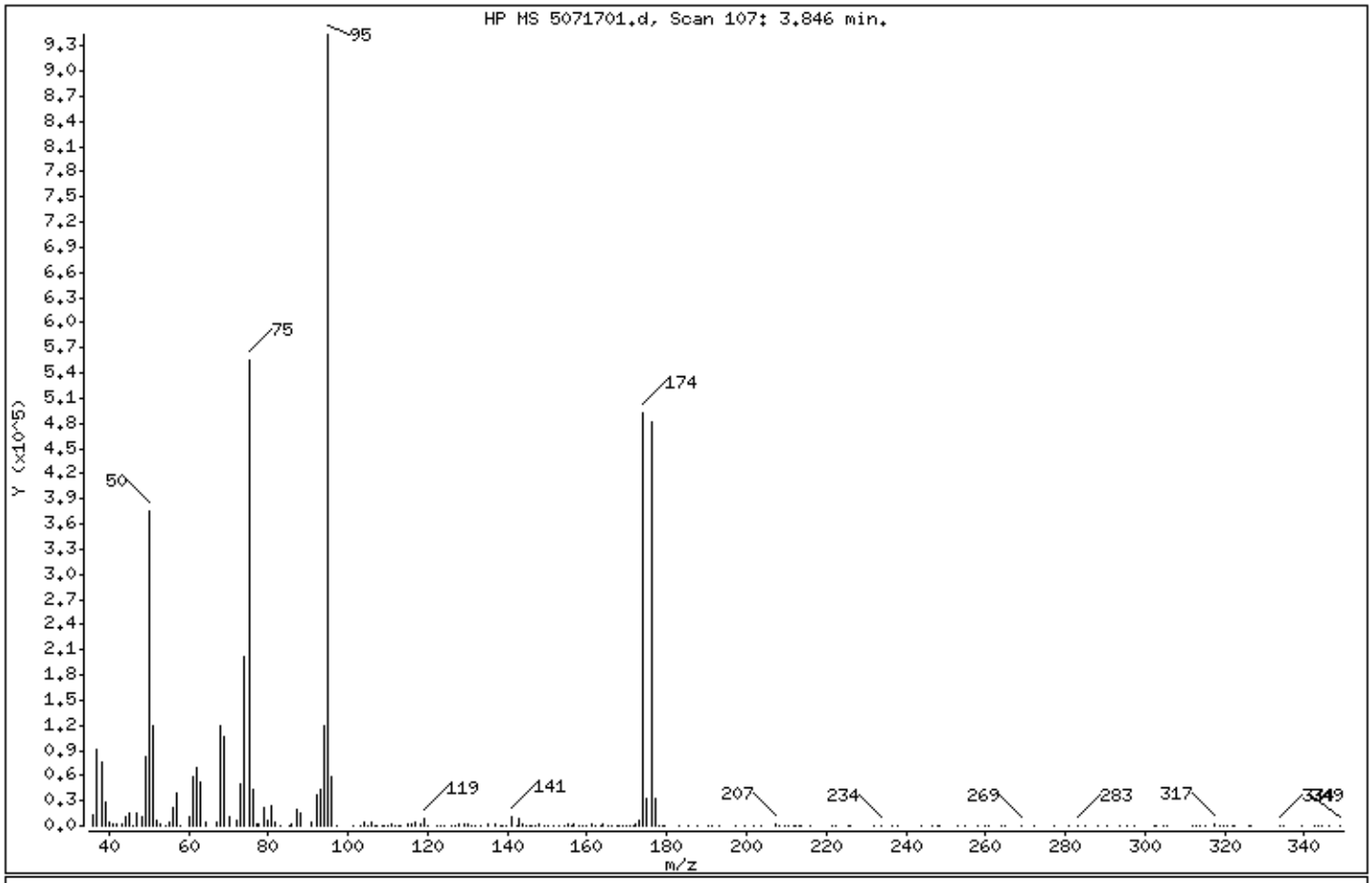
Volume Injected (uL): 1.0

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	39.77
75	30.00 - 60.00% of mass 95	58.76
96	5.00 - 9.00% of mass 95	6.20
173	Less than 2.00% of mass 174	0.61 (1.17)
174	50.00 - 100.00% of mass 95	52.22
175	5.00 - 9.00% of mass 174	3.55 (6.80)
176	95.00 - 101.00% of mass 174	51.08 (97.82)
177	5.00 - 9.00% of mass 176	3.51 (6.88)

Data File: /chem/msd5.i/5-17jul.b/5071701.d

Date : 17-JUL-2007 08:45

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5071701.d
Spectrum: HP MS 5071701.d, Scan 107: 3.846 min.
Location of Maximum: 95.10
Number of points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12715	95.10	943488	151.70	800	226.10	421
37.00	91128	96.00	58512	152.80	400	232.10	290
38.00	76960	97.00	630	154.10	654	233.70	642
39.10	28520	101.10	331	155.10	1309	236.50	473
40.00	3444	102.90	722	155.90	367	237.90	550
41.00	1255	103.90	5056	156.80	1179	244.00	202
42.00	1203	105.10	568	158.00	741	246.80	444
43.00	1526	105.80	4215	158.70	697	247.90	226
44.00	10575	106.70	1048	159.90	391	248.40	228
45.00	14515	107.10	836	161.00	1894	253.10	650
46.10	740	108.50	206	162.10	214	255.00	436
47.00	16249	109.10	245	163.50	161	258.20	278
48.10	10081	110.10	1022	164.00	1241	259.70	506
49.00	82728	110.80	1216	165.20	550	260.90	379
50.00	375232	111.90	417	166.00	481	264.20	665
51.00	119728	112.50	181	167.40	685	265.00	614
52.00	7231	113.00	295	168.20	376	269.00	896
53.00	1192	114.90	1388	168.80	775	272.30	480
54.20	679	115.70	1325	169.90	857	277.10	626
55.00	4558	116.10	1759	170.90	667	281.00	419
56.10	21576	116.90	5235	171.60	829	283.10	759
57.10	38416	118.10	2929	172.20	1866	285.10	326
58.00	917	118.90	8122	173.10	5781	288.10	222
60.00	11818	120.20	685	174.00	492672	290.70	162
61.10	59496	122.10	568	175.00	33504	293.70	418
62.00	69736	123.40	358	176.00	481920	295.30	426
63.10	51496	124.00	781	177.00	33152	297.40	341
64.20	4018	126.00	1057	178.00	309	302.30	217
67.00	3959	126.90	219	179.00	345	302.80	189
68.00	119176	127.80	2323	179.60	357	304.60	299
69.00	105800	129.00	1830	182.90	323	305.40	172
70.20	9851	130.00	3114	185.40	459	312.10	276
72.00	7202	131.00	1005	187.60	1072	312.70	415
73.00	50376	131.90	370	190.50	262	313.80	1001
74.00	202752	133.20	1042	191.10	680	315.30	195

Date : 17-JUL-2007 08:45

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5071701.d
Spectrum: HP MS 5071701.d, Scan 107: 3.846 min.
Location of Maximum: 95.10
Number of points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	554432	134.90	2367	193.10	536	317.30	1934
76.10	43816	136.80	2113	197.30	287	319.00	469
77.20	1771	138.20	482	199.40	180	319.60	384
77.70	1723	138.70	662	202.00	393	320.60	602
79.00	22512	139.50	313	203.70	190	321.90	397
80.00	7085	140.90	10432	207.10	1184	322.50	188
80.90	23616	142.20	699	208.10	1013	326.10	324
81.80	4329	143.00	7966	209.50	446	326.80	244
83.20	988	143.80	1421	210.40	432	333.80	672
85.20	527	144.70	713	211.70	162	334.90	451
85.80	2440	145.40	851	212.50	259	339.50	363
86.90	19680	146.10	439	213.30	488	342.70	366
88.00	15249	147.00	715	213.80	313	343.30	245
90.90	3664	147.70	1300	215.80	151	344.60	168
92.10	37576	148.10	1491	221.60	258	346.20	333
93.10	42608	149.20	811	222.60	262	348.90	223
94.00	119440	150.20	905	225.50	172		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0707163
# of pages (Including Cover): 1

7/26/2007

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 **Alicia Sullivan 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

0209

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

Lab I.D.	Field Sample I.D.	CAN#	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UW-AMS1-070607	4242	7/6/07 0800 - 1445	TO-15 + Naphthalene	-27.7	-3.7	10.5"Hg
02A	DW-AMS4-070607	4218	7/6/07 0800 - 1445	TO-15 + Naphthalene	-27.9	-9.75	11.0"Hg
	EXTRA CANISTER	4237	N/A	DO NOT ANALYZE	n/a	n/a	

Final P. 6.0psi ↓ (B) 7-10-07

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
07/6/07	Monica Gleeson AIL 7/10/07 8:30
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

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

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp °C	Condition	Custody Seals Intact?	Work Order #
	FedEx	8617 5870 7778	MG	N/A	Good	Yes No (None)	0707163

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0707163

Client

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

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 07/24/07
Date Completed: 7/23/07
Date Received: 7/10/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 711.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW-AMS1-070607	Modified TO-15	7/6/2007	10.5 "Hg	$225.00
02A	DW-AMS4-070607	Modified TO-15	7/6/2007	11.0 "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 (3) @ $50.00 each.	$150.00
	Blue Body Flow Controller (3) @ $35.00 each.	$105.00
	Fuel Surcharge (3) @ $2.00 each.	$6.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0707163

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

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

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

☑	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
☑	☐	☐	☑		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☑		Special units for all samples in the final report are correctly calculated
	☐	☐	☑		Manually entered results checked (i.e. special CCV compounds)
	☐	☐	☑		TPH/NMOC (verify calculations and correct reference compound used)
	☑				Chain of Custody scanned correctly
				☐	Verify sample id's vs. chain of custody
☑	☑				Samples pressurized w/ appropriate gas (N2 or He) ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☑				Verify receipt pressures against logbook and Target
☑	☑				Verify canister ID #'s
	☑		☑		Extra printed copies are provided per client profile
	☑		☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
☑	☐	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: THF ↓ in CCV

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
C Taylor	R: CAR 7/23/07	7/23/07	
	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 03/29/05

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

Not Applicable