



**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 #: 0705451

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Comments:

Completed by:

Judy Lee

Judy Lee / Document Control

6/7/07

(Signature)

(Print Name & Title)

(Date)



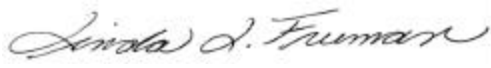
AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0705451

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033	BILL TO:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	P.O. #	NR
FAX:	860-368-5307	PROJECT #	061140-8-1703 Bay Shore Southern Cell
DATE RECEIVED:	05/21/2007	CONTACT:	Bryanna Langley
DATE COMPLETED:	05/31/2007		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	051707 AMS4	Modified TO-15	7.5 "Hg
02A	051707 AMS99	Modified TO-15	6.0 "Hg
03A	051707 TB	Modified TO-15	4.6 psi
04A	051707 AMS6	Modified TO-15	5.0 "Hg
05A	Lab Blank	Modified TO-15	NA
06A	CCV	Modified TO-15	NA
07A	LCS	Modified TO-15	NA

CERTIFIED BY:  DATE: 06/04/07

Laboratory Director

Certification 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: 07/01/06, Expiration date: 06/30/07
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
 This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.
 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0705451

Three 6 Liter Summa Canister (100% Certified) and one 6 Liter Summa Canister samples were received on May 21, 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.

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
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 was a significant difference (greater than 7.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) for sample 051707 TB. Therefore, the vacuum measured in the laboratory was used to calculate results.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		Sample Condition
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	
051707 AMS4	0705451-01A	5/17/2007	5/21/2007	NA	13	5/30/2007	NA	Good
051707 AMS99	0705451-02A	5/17/2007	5/21/2007	NA	13	5/30/2007	NA	Good
051707 TB	0705451-03A	5/17/2007	5/21/2007	NA	13	5/30/2007	NA	Good
051707 AMS6	0705451-04A	5/17/2007	5/21/2007	NA	13	5/30/2007	NA	Good
Lab Blank	0705451-05A	NA	NA	NA	NA	5/30/2007	NA	Good
CCV	0705451-06A	NA	NA	NA	NA	5/30/2007	NA	Good
LCS	0705451-07A	NA	NA	NA	NA	5/30/2007	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: 051707 AMS4

Lab ID#: 0705451-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.90	1.3	3.4	4.8
Acetone	3.6	6.7	8.5	16
2-Butanone (Methyl Ethyl Ketone)	0.90	1.5	2.6	4.5
Tetrahydrofuran	0.90	0.92	2.6	2.7



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 AMS4

Lab ID#: 0705451-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053018	Date of Collection:	5/17/07
Dil. Factor:	1.79	Date of Analysis:	5/30/07 06:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.90	Not Detected	6.2	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Freon 113	0.90	Not Detected	6.8	Not Detected
Methylene Chloride	0.90	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
Benzene	0.90	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
Toluene	0.90	1.3	3.4	4.8
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	3.9	Not Detected
o-Xylene	0.90	Not Detected	3.9	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Hexane	0.90	Not Detected	3.2	Not Detected
Cyclohexane	0.90	Not Detected	3.1	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 AMS4

Lab ID#: 0705451-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053018	Date of Collection:	5/17/07
Dil. Factor:	1.79	Date of Analysis:	5/30/07 06:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	6.7	8.5	16
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.5	2.6	4.5
Tetrahydrofuran	0.90	0.92	2.6	2.7
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	Not Detected	6.7	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	103	70-130

Report Date: 31-May-2007 20:28

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053018.d
 Lab Smp Id: 0705451-01A
 Inj Date : 30-MAY-2007 18:19
 Operator : kr Inst ID: msd5.i
 Smp Info : 200mL #22504
 Misc Info : 7.5"Hg-5.0psi
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 31-May-2007 14:34 nkhan Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
 Als bottle: 1
 Dil Factor: 1.79000
 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		FINAL		TARGET RANGE		RATIO	
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)				
==	=====	=====	=====	=====	=====	=====		=====	
* 57 Bromochloromethane CAS #: 74-97-5									
8.214	8.214 (1.000)	130	317031	25.0000		80.00-	120.00	100.00	
8.214	8.214 (1.000)	128	248999			50.11-	110.11	78.54	
8.187	8.214 (1.000)	49	901648			258.57-	318.57	284.40	

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067 (1.000)	114	1207025	25.0000		80.00-	120.00	100.00	
10.067	10.067 (1.000)	88	215466			0.00-	48.31	17.85	

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099 (1.000)	117	943915	25.0000		80.00-	120.00	100.00	
15.099	15.099 (1.000)	82	640877			33.54-	93.54	67.90	

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265 (1.128)	65	585583	23.0415	23.042	80.00-	120.00	100.00	
9.265	9.265 (1.128)	67	257990			25.98-	85.98	44.06	

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832 (1.275)	98	1077741	24.5308	24.531	80.00-	120.00	100.00	
12.832	12.832 (1.275)	70	127316			0.00-	41.05	11.81	

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

\$ 97 Toluene-d8 (continued)

12.832 12.832 (1.275) 100 677334 36.04- 96.04 62.85

\$ 122 Bromofluorobenzene

CAS #: 460-00-4

16.675 16.675 (1.104) 174 610602 25.7465 25.746 80.00- 120.00 100.00

16.675 16.675 (1.104) 95 1005428 132.47- 192.47 164.66

16.675 16.675 (1.104) 176 574998 64.80- 124.80 94.17

22 Acetone

CAS #: 67-64-1

4.869 4.841 (0.593) 58 75669 3.74739 6.708 80.00- 120.00 100.00

4.841 4.841 (0.589) 43 247705 327.94- 387.94 327.35

53 2-Butanone

CAS #: 78-93-3

7.827 7.800 (0.953) 72 8963 0.85938 1.538 80.00- 120.00 100.00

7.827 7.800 (0.953) 43 70616 758.62- 818.62 787.82

7.827 7.800 (0.953) 57 5997 23.20- 83.20 66.91

56 Tetrahydrofuran

CAS #: 109-99-9

8.187 8.187 (0.997) 42 27676 0.51168 0.9159 80.00- 120.00 100.00

8.187 8.187 (0.997) 71 5902 0.00- 48.31 21.33

8.187 8.187 (0.997) 72 4897 0.00- 49.73 17.70

99 Toluene

CAS #: 108-88-3

12.942 12.942 (1.286) 91 36776 0.70659 1.265 80.00- 120.00 100.00

12.942 12.942 (1.286) 92 21840 29.35- 89.35 59.39

Report Date: 31-May-2007 20:28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
 Lab File ID: 5053018.d
 Lab Smp Id: 0705451-01A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: kr
 Method File: /chem/msd5.i/5-30may.b/t14q529a.m
 Misc Info: 7.5"Hg-5.0psi

Calibration Date: 30-MAY-2007
 Calibration Time: 10:20
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	317031	-19.80
79 1,4-Difluorobenze	1596346	957808	2234884	1207025	-24.39
108 Chlorobenzene-d5	1223968	734381	1713555	943915	-22.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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: 5-30may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705451-01A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-30may.b/t14q529a.m
Misc Info: 7.5"Hg-5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	23.042	92.17	70-130
\$ 97 Toluene-d8	25.000	24.531	98.12	70-130
\$ 122 Bromofluorobenzene	25.000	25.746	102.99	70-130

Data File: /chem/msd5.1/5-30may.b/5053018.d

Date: 30-May-2007 18:19

Client ID:

Sample Info: 200mL #22504

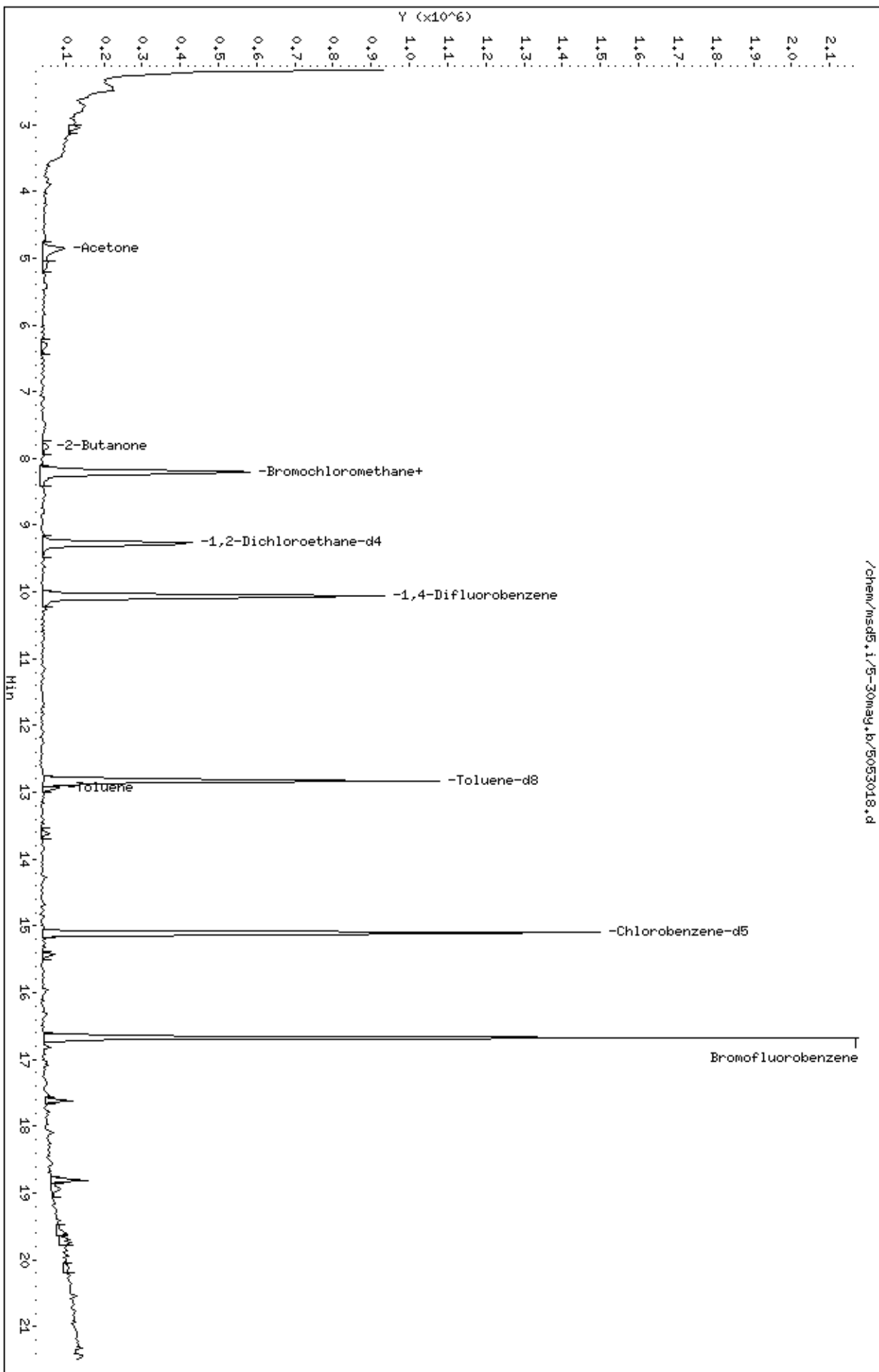
Column phase: RTX-624

Instrument: msd5.1

Operator: kp

Column diameter: 0.53

/chem/msd5.1/5-30may.b/5053018.d



Date : 30-MAY-2007 18:19

Client ID:

Instrument: msd5.i

Sample Info: 200mL #22504

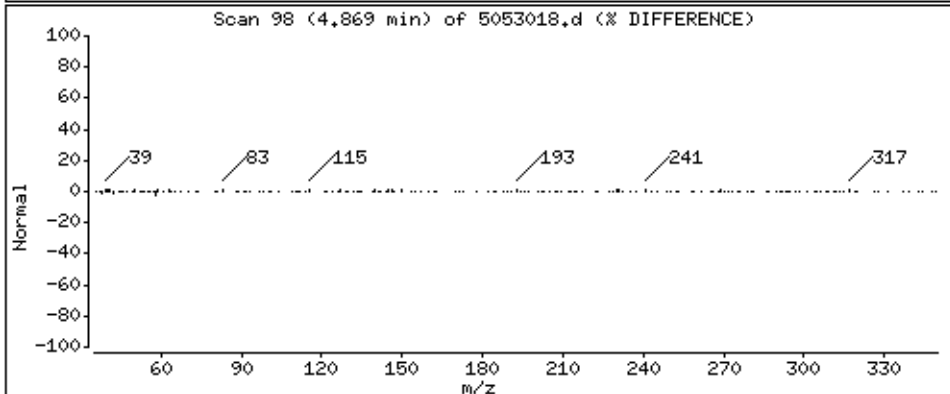
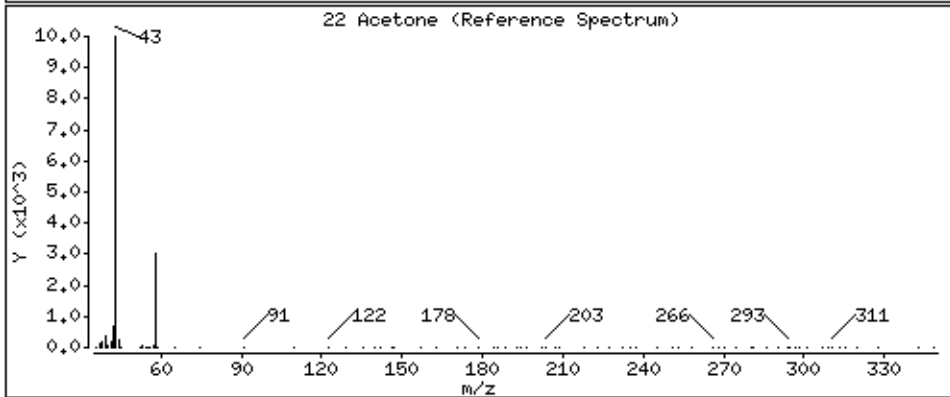
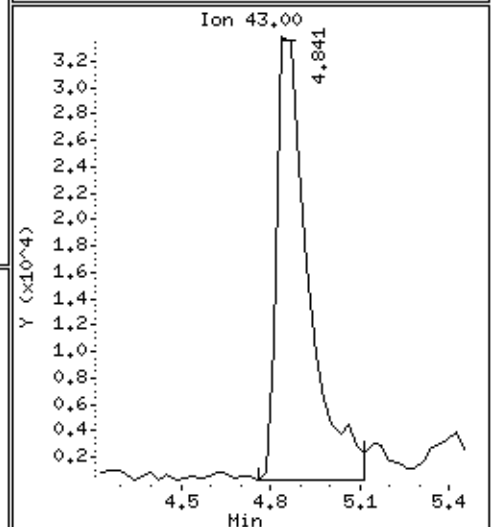
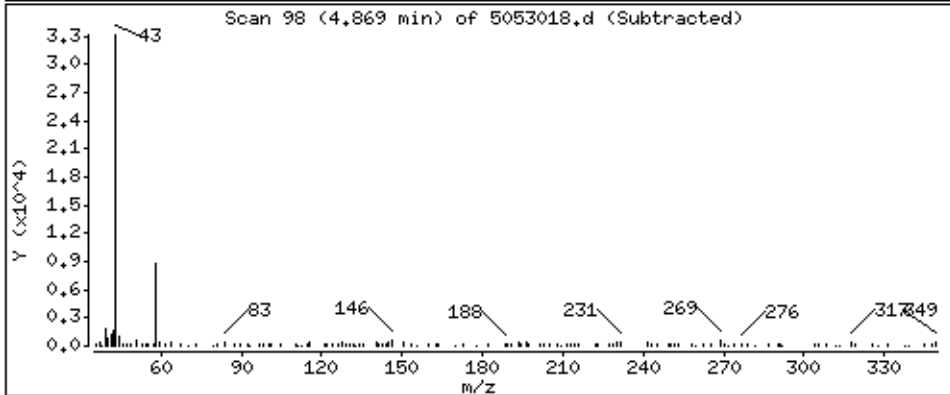
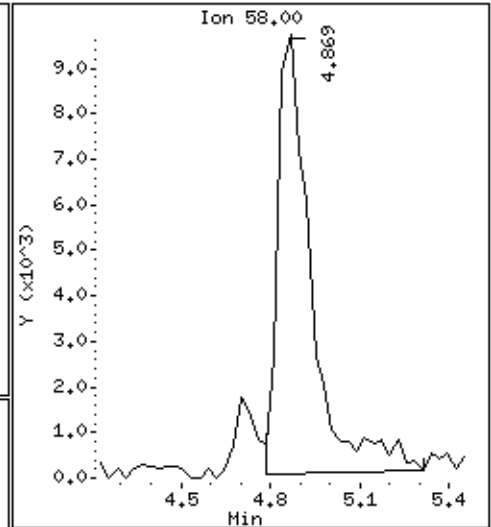
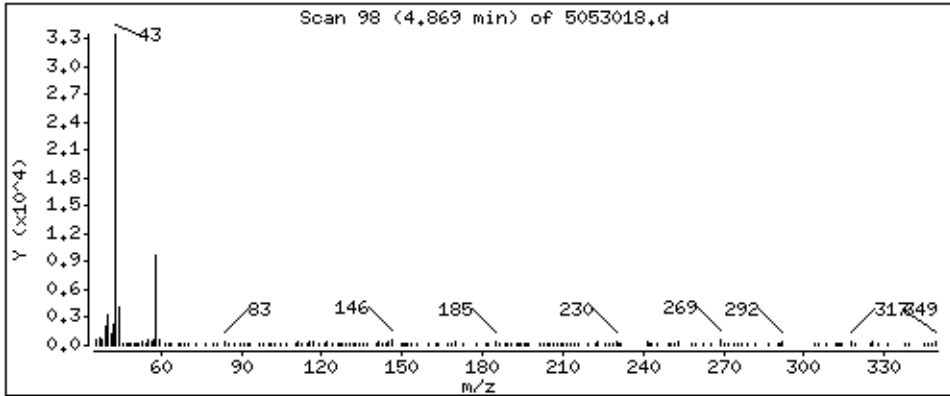
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

22 Acetone

Concentration: 6.708 PPBV



Date : 30-MAY-2007 18:19

Client ID:

Instrument: msd5.i

Sample Info: 200mL #22504

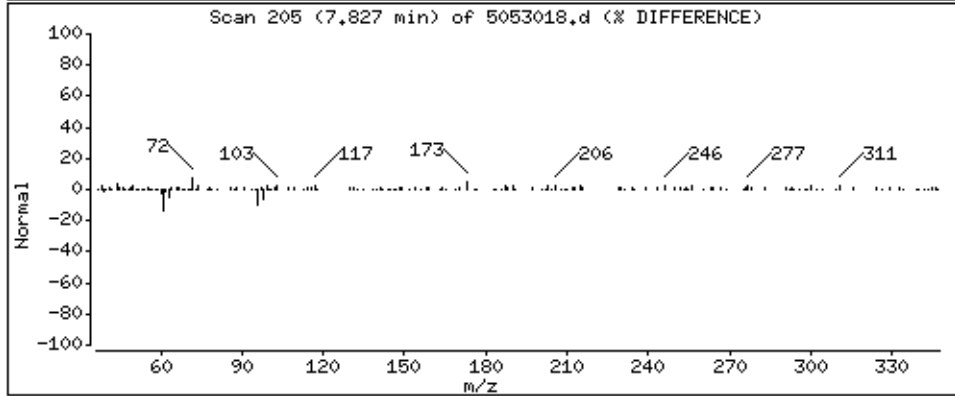
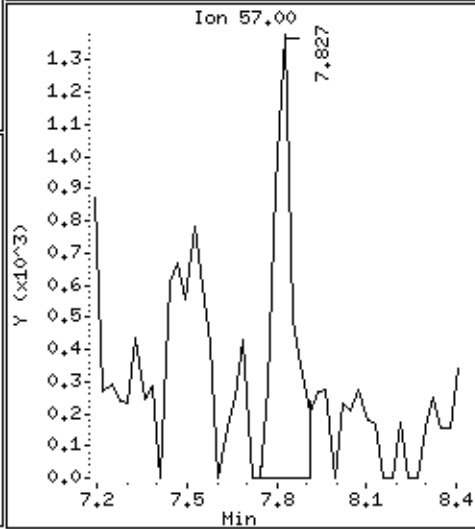
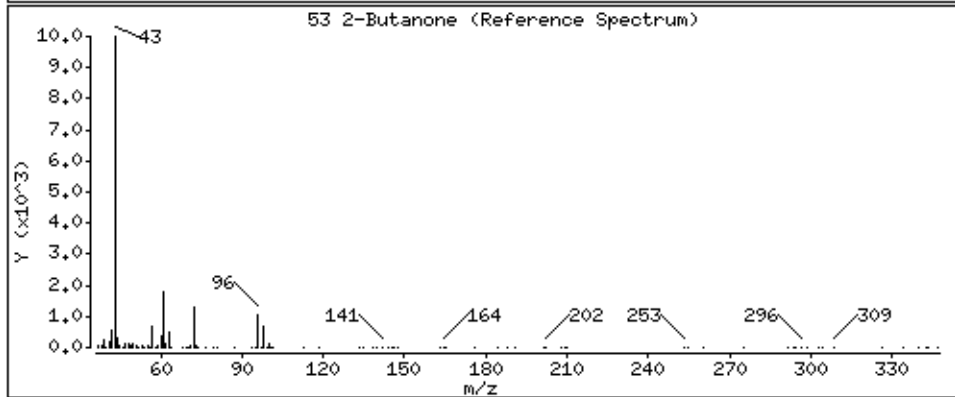
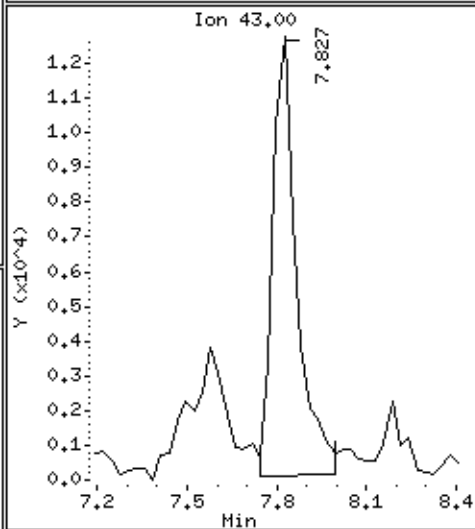
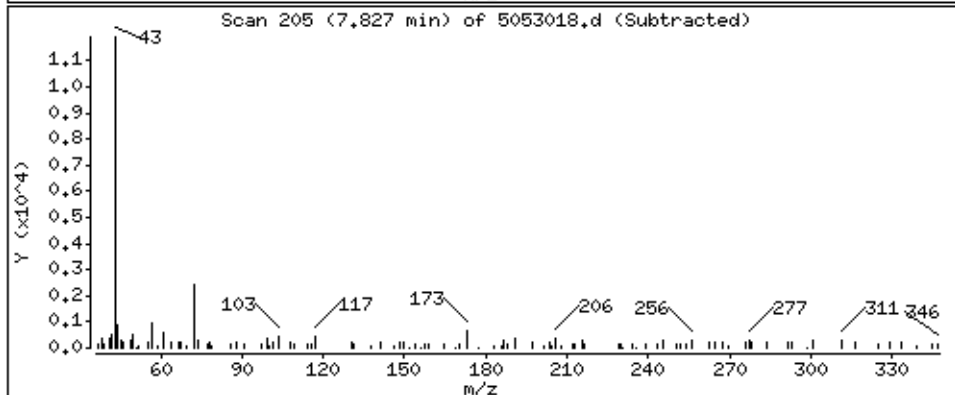
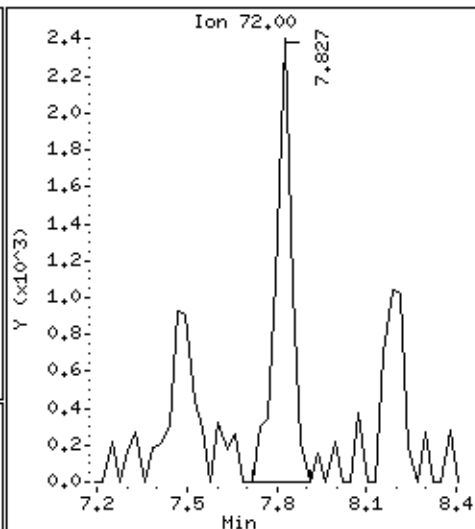
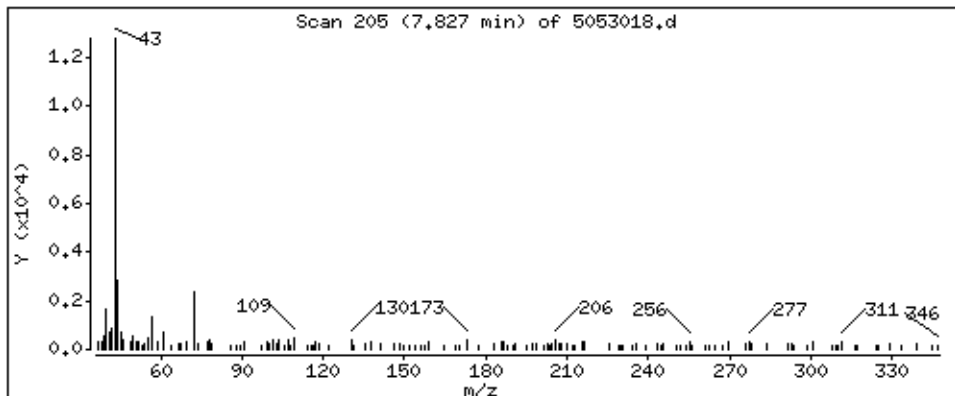
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

53 2-Butanone

Concentration: 1,538 PPBV



Date : 30-MAY-2007 18:19

Client ID:

Instrument: msd5.i

Sample Info: 200mL #22504

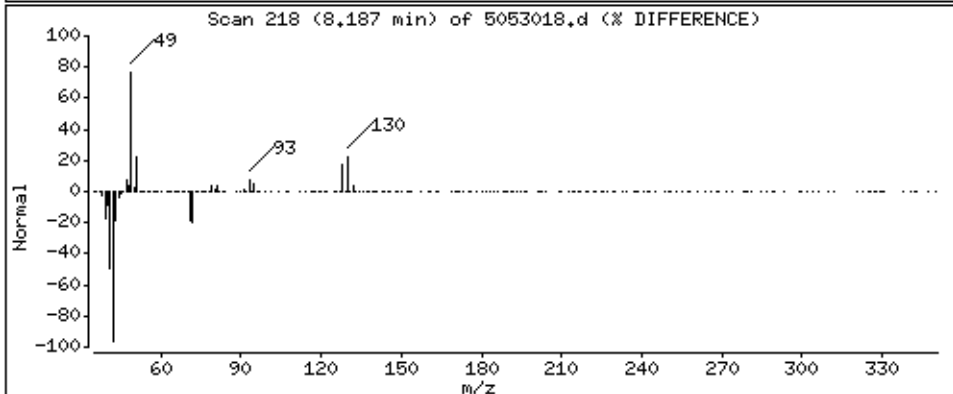
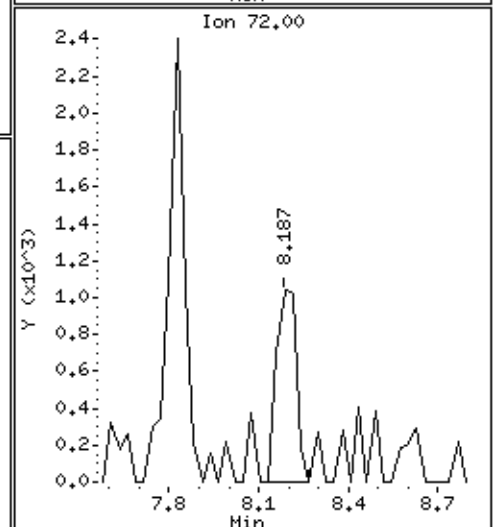
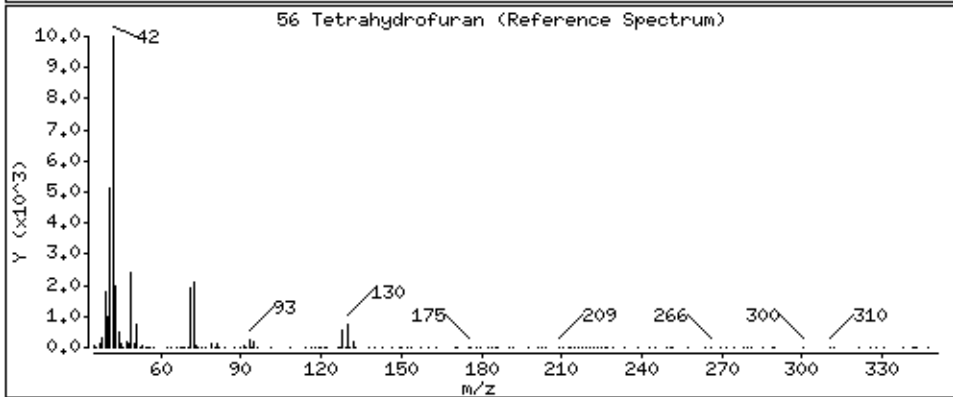
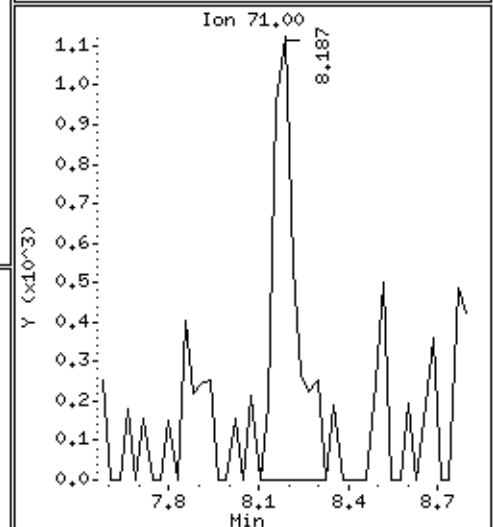
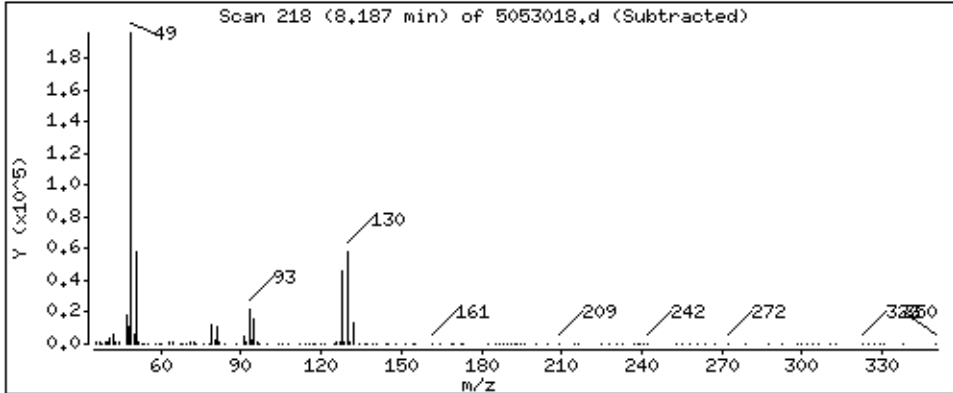
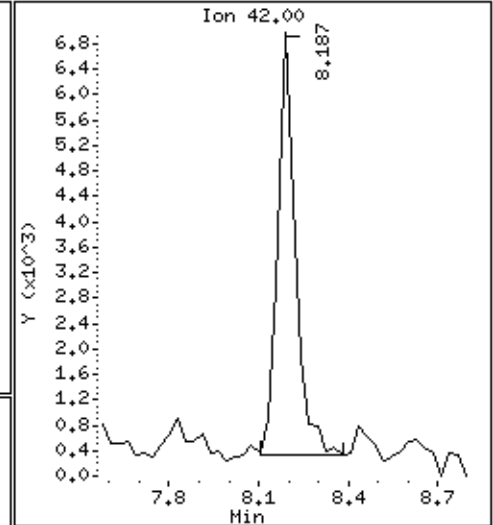
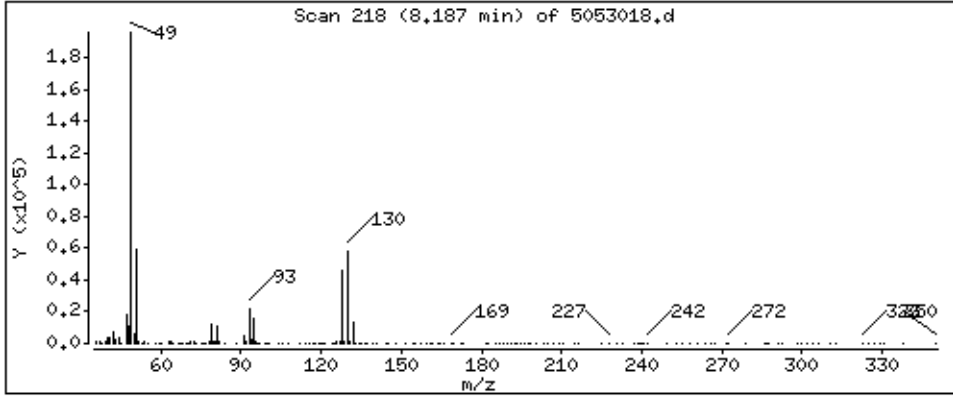
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

56 Tetrahydrofuran

Concentration: 0.9159 PPBV



Date : 30-MAY-2007 18:19

Client ID:

Instrument: msd5.i

Sample Info: 200mL #22504

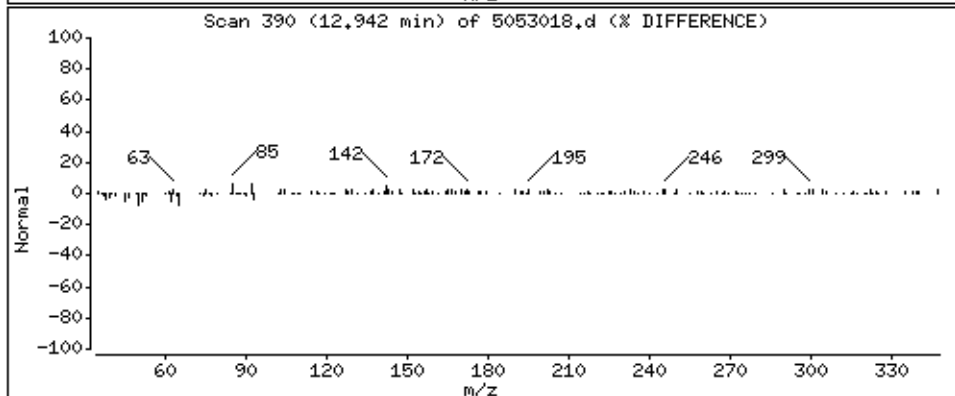
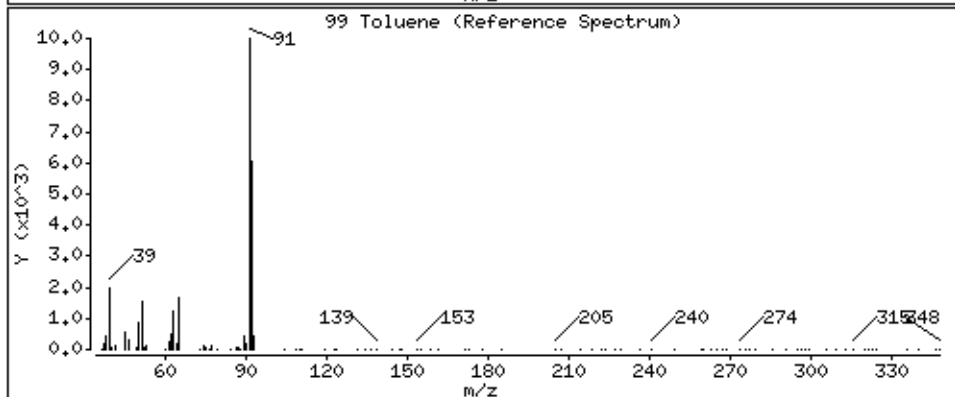
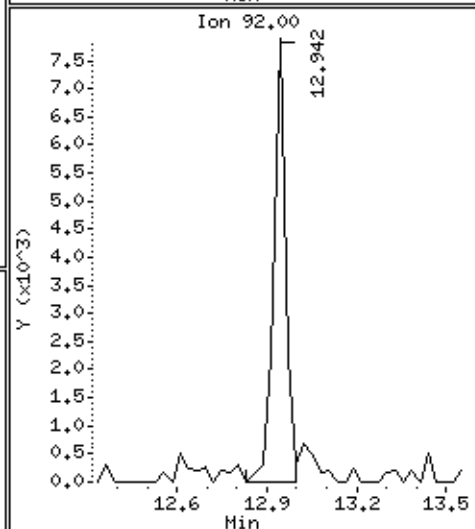
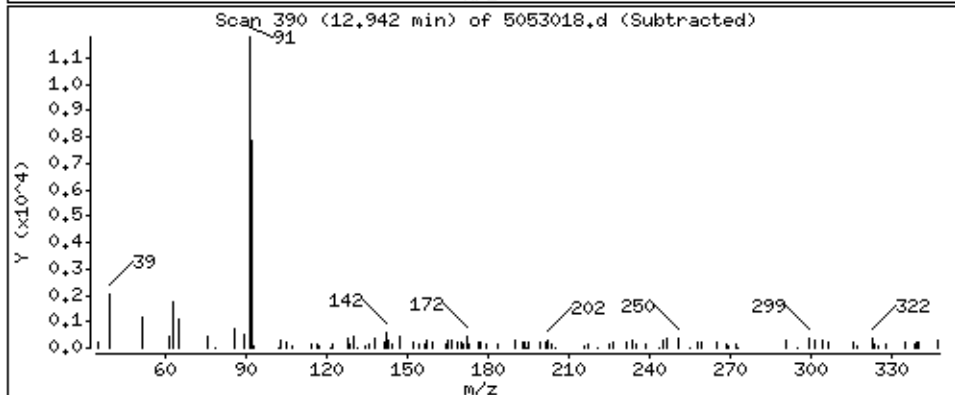
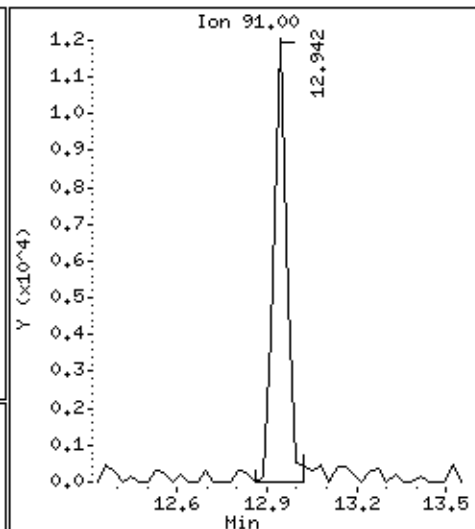
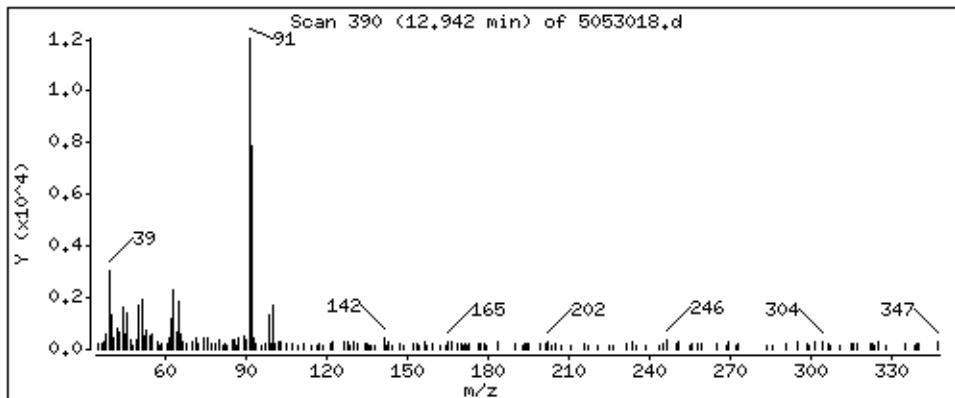
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

99 Toluene

Concentration: 1.265 PPBV





AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: 051707 AMS99

Lab ID#: 0705451-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.84	1.3	3.2	5.0
Acetone	3.4	25	8.0	58
2-Butanone (Methyl Ethyl Ketone)	0.84	2.9	2.5	8.6



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 AMS99

Lab ID#: 0705451-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053019	Date of Collection:	5/17/07
Dil. Factor:	1.68	Date of Analysis:	5/30/07 06:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	1.3	3.2	5.0
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 AMS99

Lab ID#: 0705451-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053019	Date of Collection:	5/17/07
Dil. Factor:	1.68	Date of Analysis:	5/30/07 06:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	25	8.0	58
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	2.9	2.5	8.6
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	101	70-130

Report Date: 31-May-2007 20:29

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053019.d
 Lab Smp Id: 0705451-02A
 Inj Date : 30-MAY-2007 18:51
 Operator : kr Inst ID: msd5.i
 Smp Info : 200mL #4204
 Misc Info : 6.0"Hg-5.0psi
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 31-May-2007 14:34 nkhan Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
 Als bottle: 1
 Dil Factor: 1.68000
 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		FINAL		TARGET RANGE		RATIO	
RT	EXP RT (REL RT)	MASS	RESPONSE (PPBV)	(PPBV)					
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 57 Bromochloromethane CAS #: 74-97-5									
8.214	8.214 (1.000)	130	313517	25.0000		80.00-	120.00	100.00	
8.214	8.214 (1.000)	128	228721			50.11-	110.11	72.95	
8.186	8.214 (1.000)	49	875403			258.57-	318.57	279.22	

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067 (1.000)	114	1205121	25.0000		80.00-	120.00	100.00	
10.067	10.067 (1.000)	88	218580			0.00-	48.31	18.14	

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099 (1.000)	117	923072	25.0000		80.00-	120.00	100.00	
15.099	15.099 (1.000)	82	614472			33.54-	93.54	66.57	

§ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265 (1.128)	65	558541	22.2238	22.224	80.00-	120.00	100.00	
9.265	9.265 (1.128)	67	250520			25.98-	85.98	44.85	

§ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832 (1.275)	98	1090920	24.8700	24.870	80.00-	120.00	100.00	
12.832	12.832 (1.275)	70	120249			0.00-	41.05	11.02	

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

\$ 97 Toluene-d8 (continued)

12.832 12.832 (1.275) 100 697785 36.04- 96.04 63.96

\$ 122 Bromofluorobenzene CAS #: 460-00-4

16.675 16.675 (1.104) 174 586236 25.2773 25.277 80.00- 120.00 100.00

16.675 16.675 (1.104) 95 959021 132.47- 192.47 163.59

16.675 16.675 (1.104) 176 563121 64.80- 124.80 96.06

22 Acetone CAS #: 67-64-1

4.841 4.841 (0.589) 58 292418 14.6439 24.602 80.00- 120.00 100.00

4.841 4.841 (0.589) 43 1003155 327.94- 387.94 343.05

53 2-Butanone CAS #: 78-93-3

7.827 7.800 (0.953) 72 17923 1.73773 2.919 80.00- 120.00 100.00

7.799 7.800 (0.950) 43 149276 758.62- 818.62 832.84

7.799 7.800 (0.950) 57 11211 23.20- 83.20 62.55

99 Toluene CAS #: 108-88-3

12.942 12.942 (1.286) 91 40964 0.78830 1.324 80.00- 120.00 100.00

12.942 12.942 (1.286) 92 23003 29.35- 89.35 56.16

Report Date: 31-May-2007 20:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
 Lab File ID: 5053019.d
 Lab Smp Id: 0705451-02A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: kr
 Method File: /chem/msd5.i/5-30may.b/t14q529a.m
 Misc Info: 6.0"Hg-5.0psi

Calibration Date: 30-MAY-2007
 Calibration Time: 10:20
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	313517	-20.69
79 1,4-Difluorobenze	1596346	957808	2234884	1205121	-24.51
108 Chlorobenzene-d5	1223968	734381	1713555	923072	-24.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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: 5-30may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705451-02A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-30may.b/t14q529a.m
Misc Info: 6.0"Hg-5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	22.224	88.90	70-130
\$ 97 Toluene-d8	25.000	24.870	99.48	70-130
\$ 122 Bromofluorobenzene	25.000	25.277	101.11	70-130

Data File: /chem/msd5.1/5-30may.b/5053019.d

Date: 30-May-2007 18:51

Client ID:

Sample Info: 200mL #4204

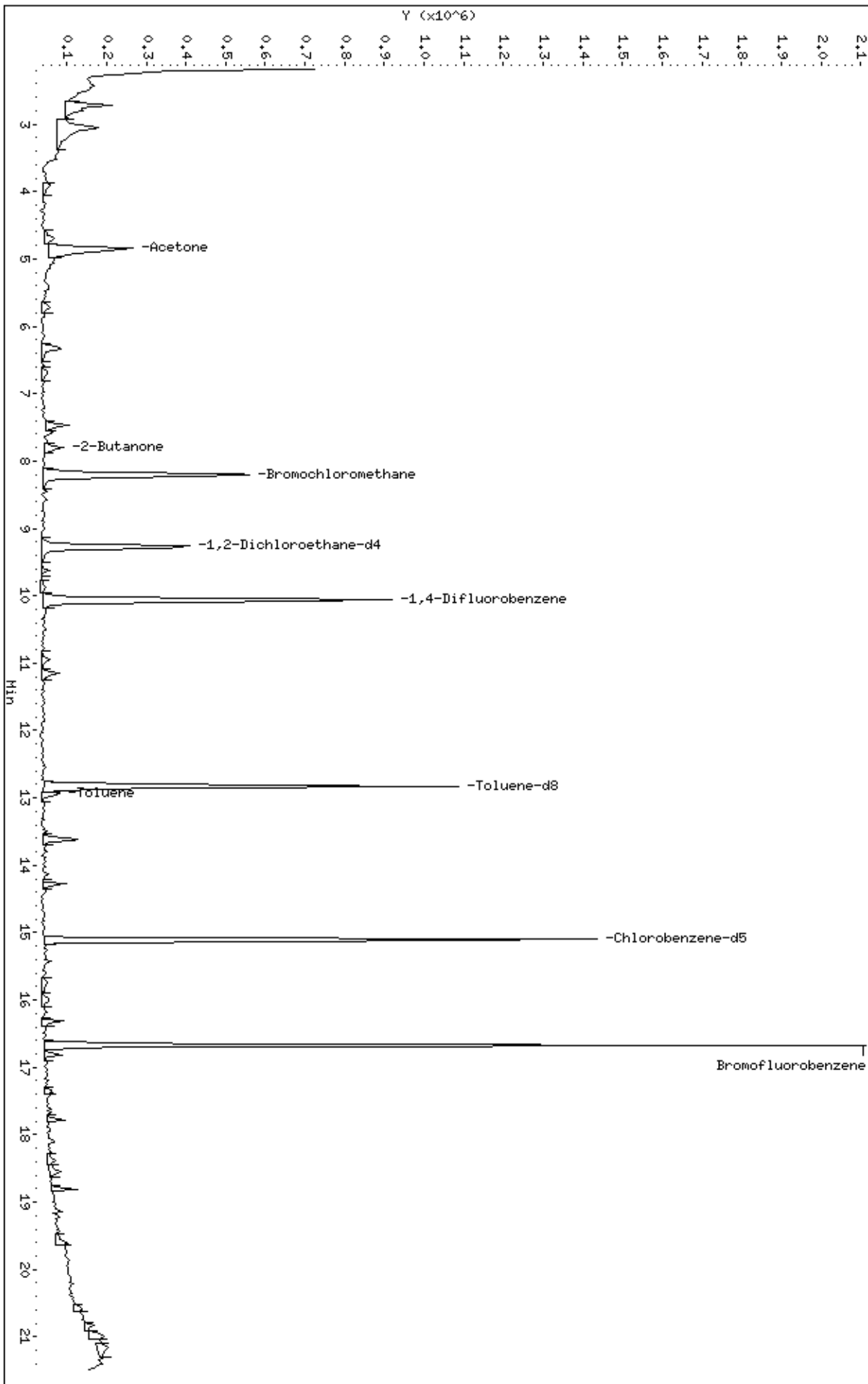
Column phase: RTX-624

Instrument: msd5.1

Operator: kp

Column diameter: 0.53

/chem/msd5.1/5-30may.b/5053019.d



Date : 30-MAY-2007 18:51

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4204

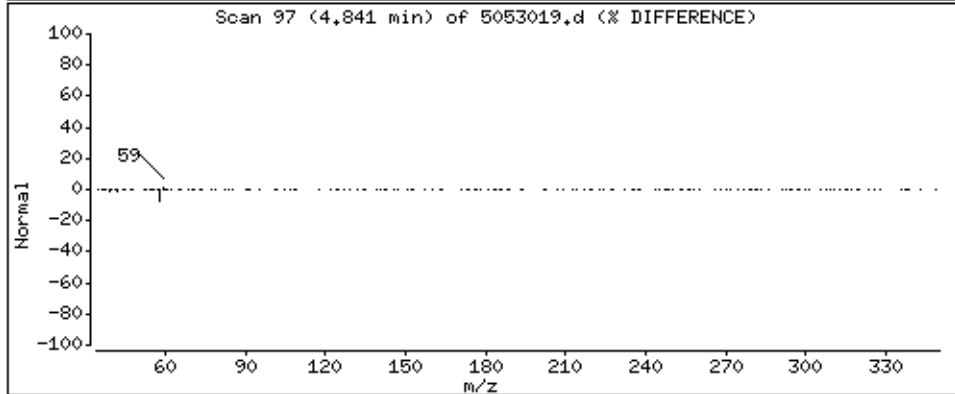
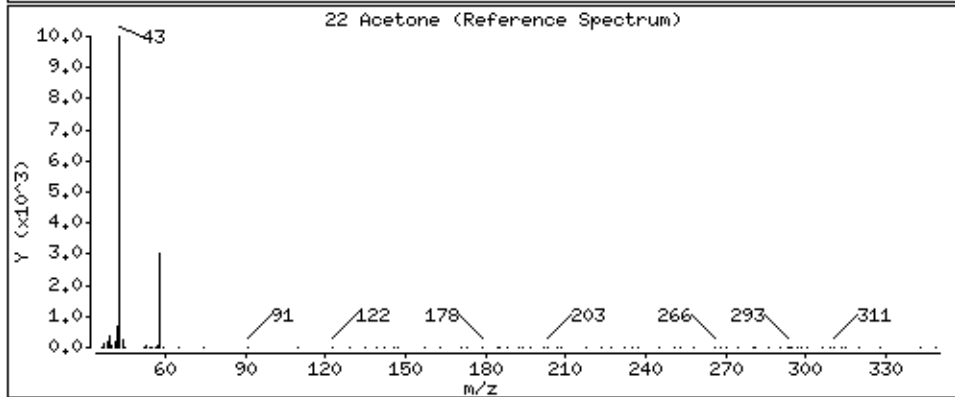
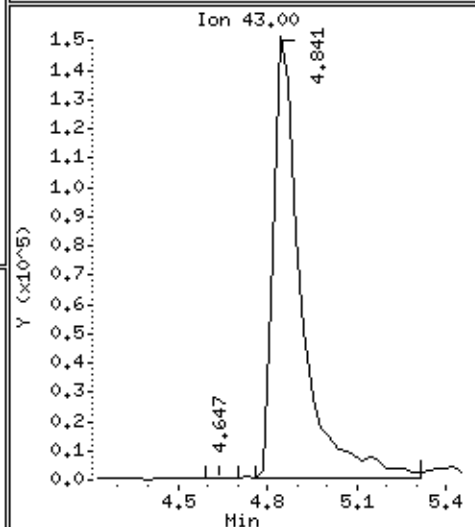
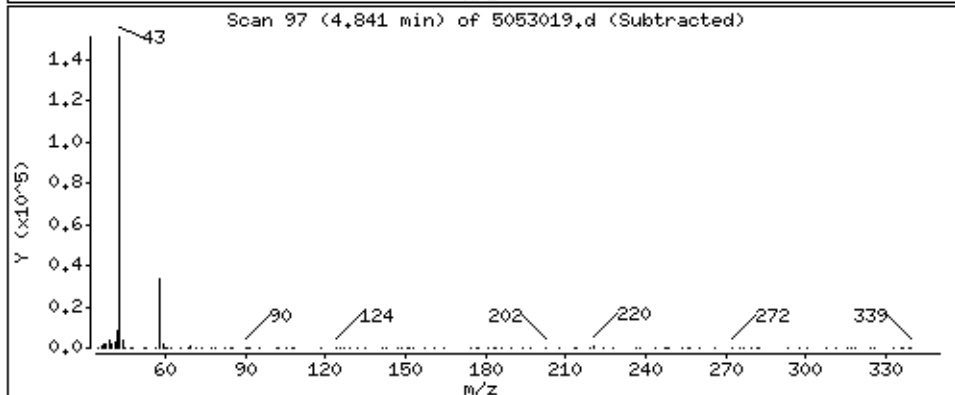
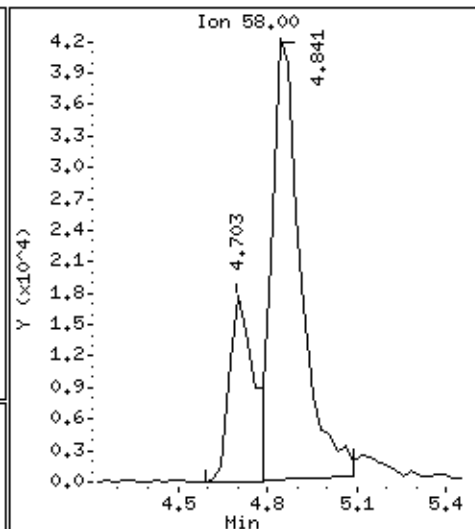
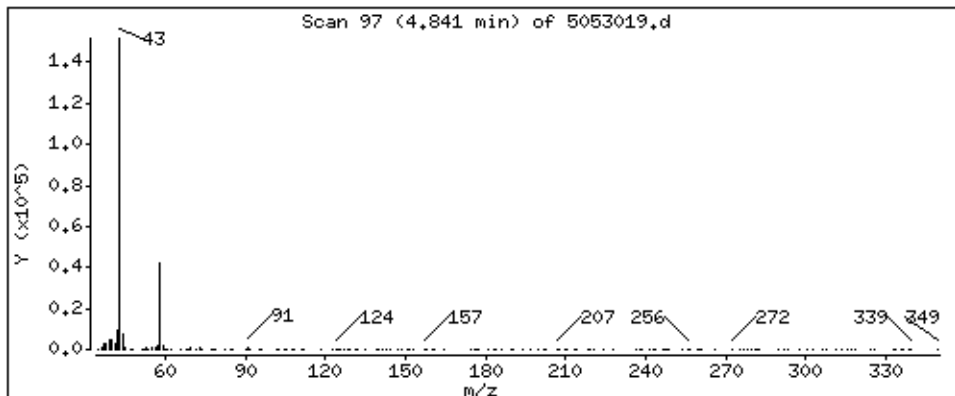
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

22 Acetone

Concentration: 24,602 PPBV



Date : 30-MAY-2007 18:51

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4204

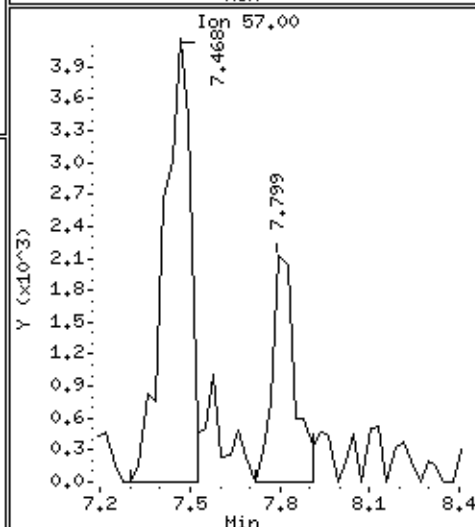
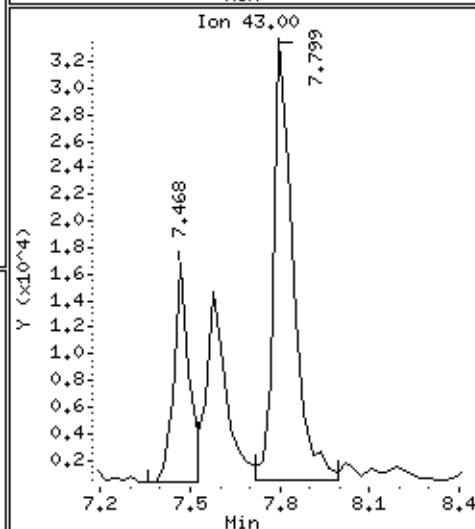
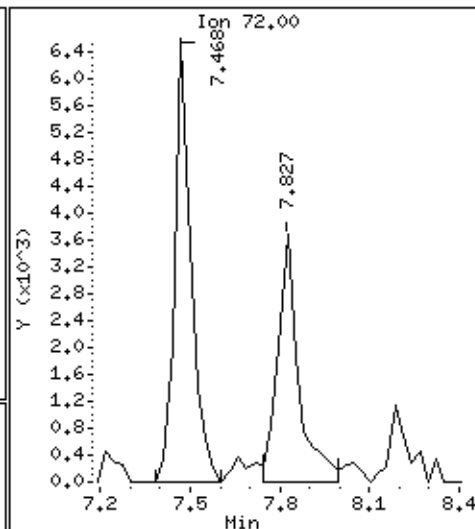
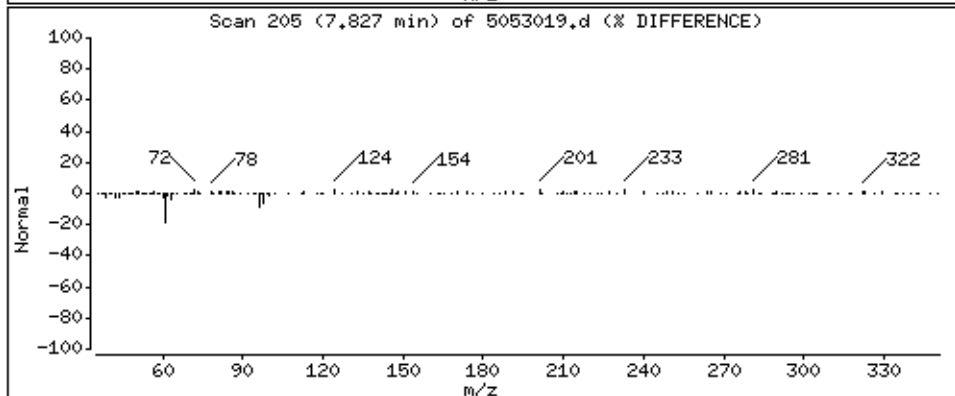
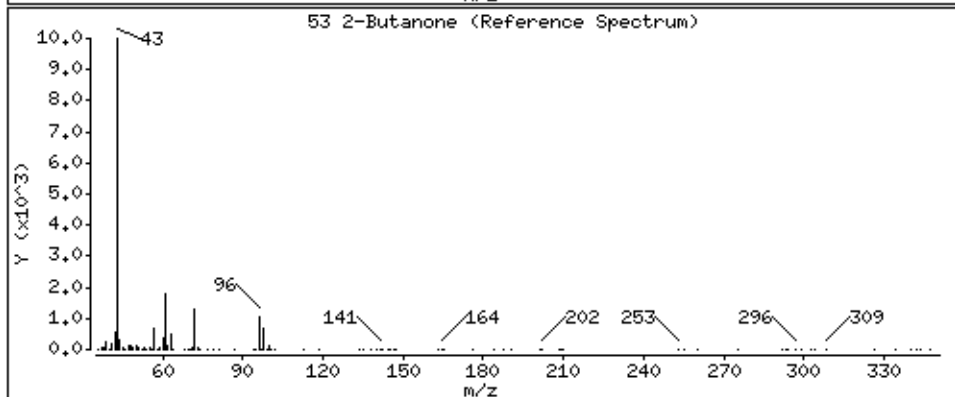
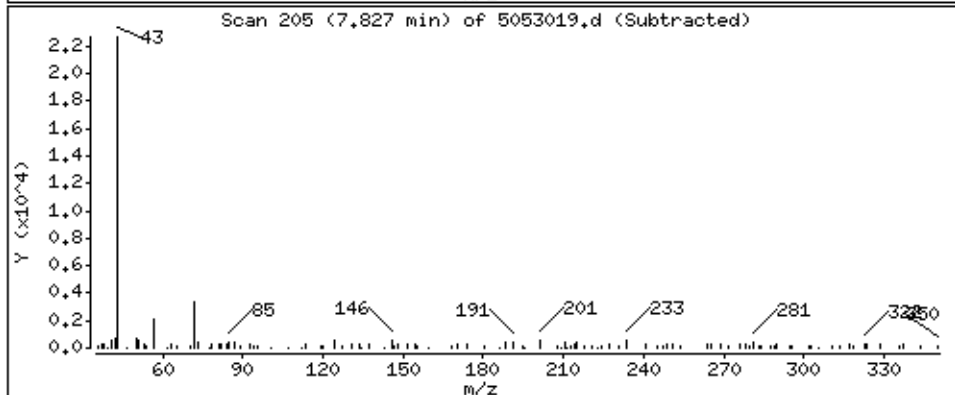
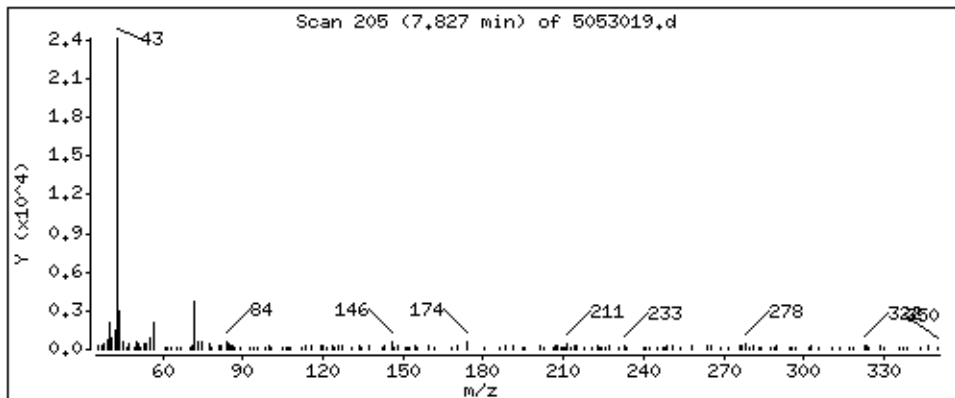
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

53 2-Butanone

Concentration: 2,919 PPBV



Date : 30-MAY-2007 18:51

Client ID:

Instrument: msd5,i

Sample Info: 200mL #4204

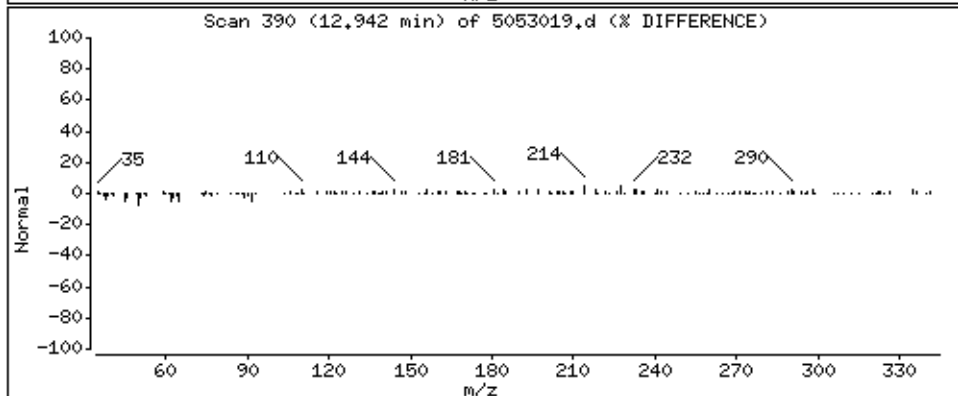
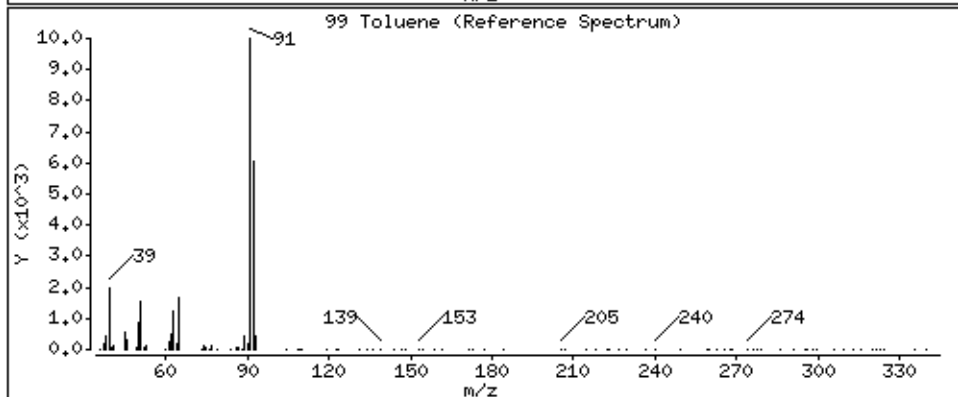
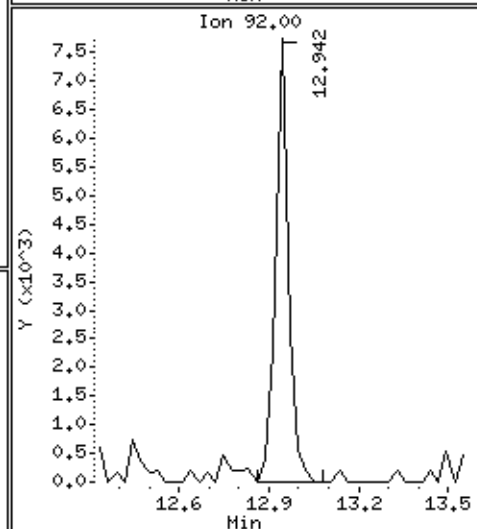
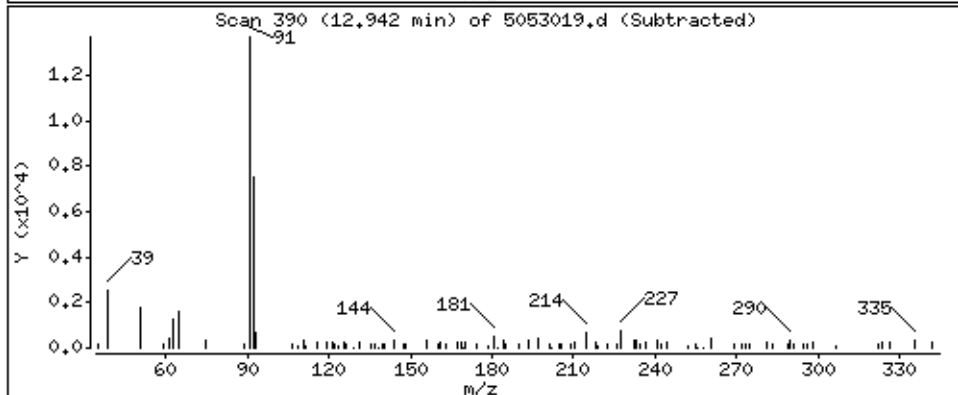
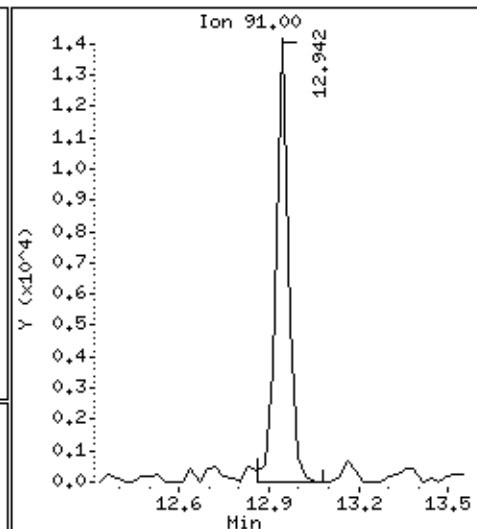
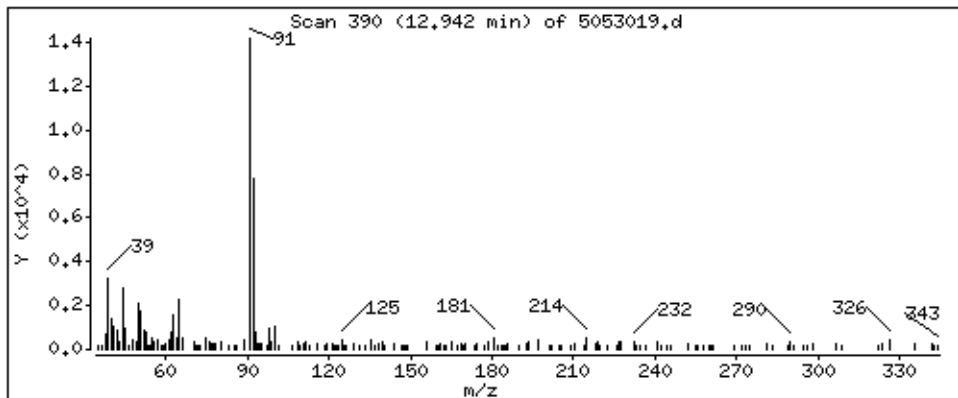
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

99 Toluene

Concentration: 1,324 PPBV





AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: 051707 TB

Lab ID#: 0705451-03A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 TB

Lab ID#: 0705451-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053020	Date of Collection:	5/17/07
Dil. Factor:	1.00	Date of Analysis:	5/30/07 07:23 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: 051707 TB

Lab ID#: 0705451-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053020	Date of Collection:	5/17/07
Dil. Factor:	1.00	Date of Analysis:	5/30/07 07:23 PM

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

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

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	95	70-130

Report Date: 31-May-2007 20:29

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053020.d
 Lab Smp Id: 0705451-03A
 Inj Date : 30-MAY-2007 19:23
 Operator : kr Inst ID: msd5.i
 Smp Info : 200mL #25274
 Misc Info : 4.6psi-4.6psi
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 31-May-2007 14:34 nkhan Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
 Als bottle: 1
 Dil Factor: 1.00000
 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		FINAL		TARGET RANGE		RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE (PPBV)	(PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====

* 57	Bromochloromethane				CAS #: 74-97-5			
8.214	8.214 (1.000)	130	313624	25.0000		80.00-	120.00	100.00
8.214	8.214 (1.000)	128	232182			50.11-	110.11	74.03
8.187	8.214 (1.000)	49	856519			258.57-	318.57	273.10

* 79	1,4-Difluorobenzene				CAS #: 540-36-3			
10.067	10.067 (1.000)	114	1170355	25.0000		80.00-	120.00	100.00
10.067	10.067 (1.000)	88	208590			0.00-	48.31	17.82

* 108	Chlorobenzene-d5				CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	945965	25.0000		80.00-	120.00	100.00
15.099	15.099 (1.000)	82	605168			33.54-	93.54	63.97

\$ 71	1,2-Dichloroethane-d4				CAS #: 17060-07-0			
9.265	9.265 (1.128)	65	553676	22.0227	22.023	80.00-	120.00	100.00
9.265	9.265 (1.128)	67	240513			25.98-	85.98	43.44

\$ 97	Toluene-d8				CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	1069927	25.1159	25.116	80.00-	120.00	100.00
12.832	12.832 (1.275)	70	123323			0.00-	41.05	11.53

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
== =====

\$ 97 Toluene-d8 (continued)

12.832 12.832 (1.275) 100 666562 36.04- 96.04 62.30

\$ 122 Bromofluorobenzene

CAS #: 460-00-4

16.675 16.675 (1.104) 174 567226 23.8657 23.866 80.00- 120.00 100.00

16.675 16.675 (1.104) 95 936372 132.47- 192.47 165.08

16.675 16.675 (1.104) 176 546569 64.80- 124.80 96.36

Report Date: 31-May-2007 20:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
 Lab File ID: 5053020.d
 Lab Smp Id: 0705451-03A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: kr
 Method File: /chem/msd5.i/5-30may.b/t14q529a.m
 Misc Info: 4.6psi-4.6psi

Calibration Date: 30-MAY-2007
 Calibration Time: 10:20
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	313624	-20.66
79 1,4-Difluorobenze	1596346	957808	2234884	1170355	-26.69
108 Chlorobenzene-d5	1223968	734381	1713555	945965	-22.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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: 5-30may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705451-03A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-30may.b/t14q529a.m
Misc Info: 4.6psi-4.6psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	22.023	88.09	70-130
\$ 97 Toluene-d8	25.000	25.116	100.46	70-130
\$ 122 Bromofluorobenzene	25.000	23.866	95.46	70-130

Data File: /chem/msd5.1/5-30may.b/5053020.d

Date : 30-MAY-2007 19:23

Client ID:

Sample Info: 200mL #25274

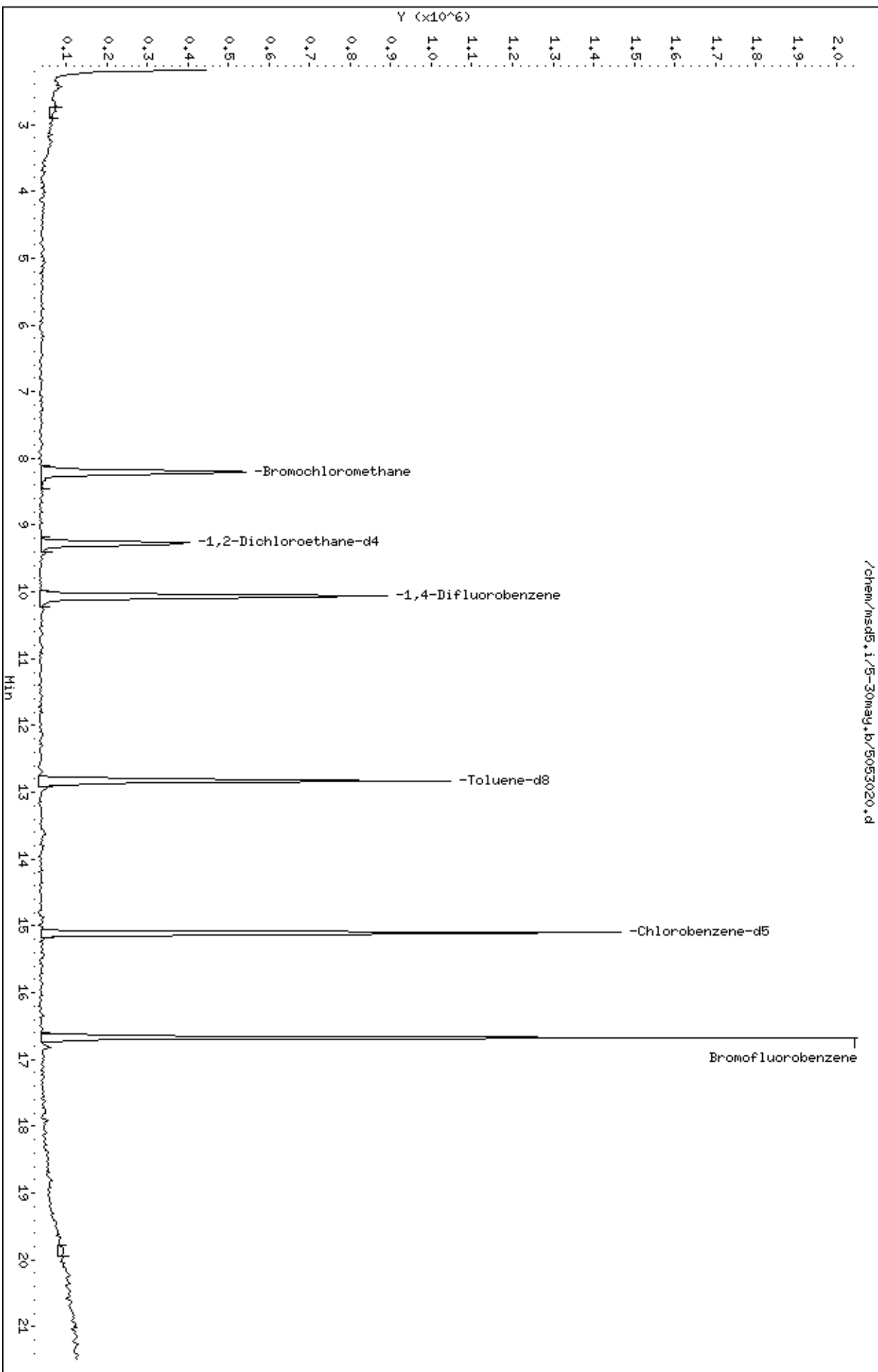
Column phase: RTX-624

Instrument: msd5.1

Operator: kp

Column diameter: 0.53

/chem/msd5.1/5-30may.b/5053020.d





AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: 051707 AMS6

Lab ID#: 0705451-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	0.86	4.0	4.2
Toluene	0.80	0.98	3.0	3.7



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 AMS6

Lab ID#: 0705451-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053021	Date of Collection:	5/17/07
Dil. Factor:	1.61	Date of Analysis:	5/30/07 07:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	0.86	4.0	4.2
Freon 114	0.80	Not Detected	5.6	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Chloroform	0.80	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
Benzene	0.80	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Toluene	0.80	0.98	3.0	3.7
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.2	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 051707 AMS6

Lab ID#: 0705451-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053021	Date of Collection:	5/17/07
Dil. Factor:	1.61	Date of Analysis:	5/30/07 07:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.80	Not Detected	3.3	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	3.2	Not Detected	7.6	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.80	Not Detected	8.3	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
Ethanol	3.2	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 31-May-2007 20:30

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053021.d
 Lab Smp Id: 0705451-04A
 Inj Date : 30-MAY-2007 19:55
 Operator : kr Inst ID: msd5.i
 Smp Info : 200mL #936
 Misc Info : 5.0"Hg-5.0psi
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 31-May-2007 14:34 nkhan Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
 Als bottle: 1
 Dil Factor: 1.61000
 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		FINAL		TARGET RANGE		RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE (PPBV)	(PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====

* 57	Bromochloromethane				CAS #: 74-97-5			
8.214	8.214 (1.000)	130	291000	25.0000		80.00-	120.00	100.00
8.214	8.214 (1.000)	128	222401			50.11-	110.11	76.43
8.187	8.214 (1.000)	49	875791			258.57-	318.57	300.96

* 79	1,4-Difluorobenzene				CAS #: 540-36-3			
10.067	10.067 (1.000)	114	1162499	25.0000		80.00-	120.00	100.00
10.067	10.067 (1.000)	88	204295			0.00-	48.31	17.57

* 108	Chlorobenzene-d5				CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	910840	25.0000		80.00-	120.00	100.00
15.099	15.099 (1.000)	82	580198			33.54-	93.54	63.70

\$ 71	1,2-Dichloroethane-d4				CAS #: 17060-07-0			
9.265	9.265 (1.128)	65	546295	23.4185	23.418	80.00-	120.00	100.00
9.265	9.265 (1.128)	67	239276			25.98-	85.98	43.80

\$ 97	Toluene-d8				CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	1042130	24.6287	24.629	80.00-	120.00	100.00
12.832	12.832 (1.275)	70	114545			0.00-	41.05	10.99

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
== =====

\$ 97 Toluene-d8 (continued)

12.832 12.832 (1.275) 100 645468 36.04- 96.04 61.94

\$ 122 Bromofluorobenzene

CAS #: 460-00-4

16.675 16.675 (1.104) 174 563852 24.6386 24.639 80.00- 120.00 100.00

16.675 16.675 (1.104) 95 910246 132.47- 192.47 161.43

16.675 16.675 (1.104) 176 542736 64.80- 124.80 96.26

2 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.408 2.436 (0.293) 85 27453 0.53174 0.8561 80.00- 120.00 100.00

2.408 2.436 (0.293) 87 6057 1.62- 61.62 22.07

99 Toluene

CAS #: 108-88-3

12.942 12.942 (1.286) 91 30475 0.60795 0.9788 80.00- 120.00 100.00

12.942 12.942 (1.286) 92 17223 29.35- 89.35 56.52

Report Date: 31-May-2007 20:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msd5.i
Lab File ID: 5053021.d
Lab Smp Id: 0705451-04ACalibration Date: 30-MAY-2007
Calibration Time: 10:20

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: kr

Method File: /chem/msd5.i/5-30may.b/t14q529a.m

Misc Info: 5.0"Hg-5.0psi

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	291000	-26.38
79 1,4-Difluorobenze	1596346	957808	2234884	1162499	-27.18
108 Chlorobenzene-d5	1223968	734381	1713555	910840	-25.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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: 5-30may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705451-04A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-30may.b/t14q529a.m
Misc Info: 5.0"Hg-5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	23.418	93.67	70-130
\$ 97 Toluene-d8	25.000	24.629	98.51	70-130
\$ 122 Bromofluorobenzene	25.000	24.639	98.55	70-130

Data File: /chem/msd5.1/5-30may.b/5053021.d

Date: 30-May-2007 19:55

Client ID:

Sample Info: 200mL #936

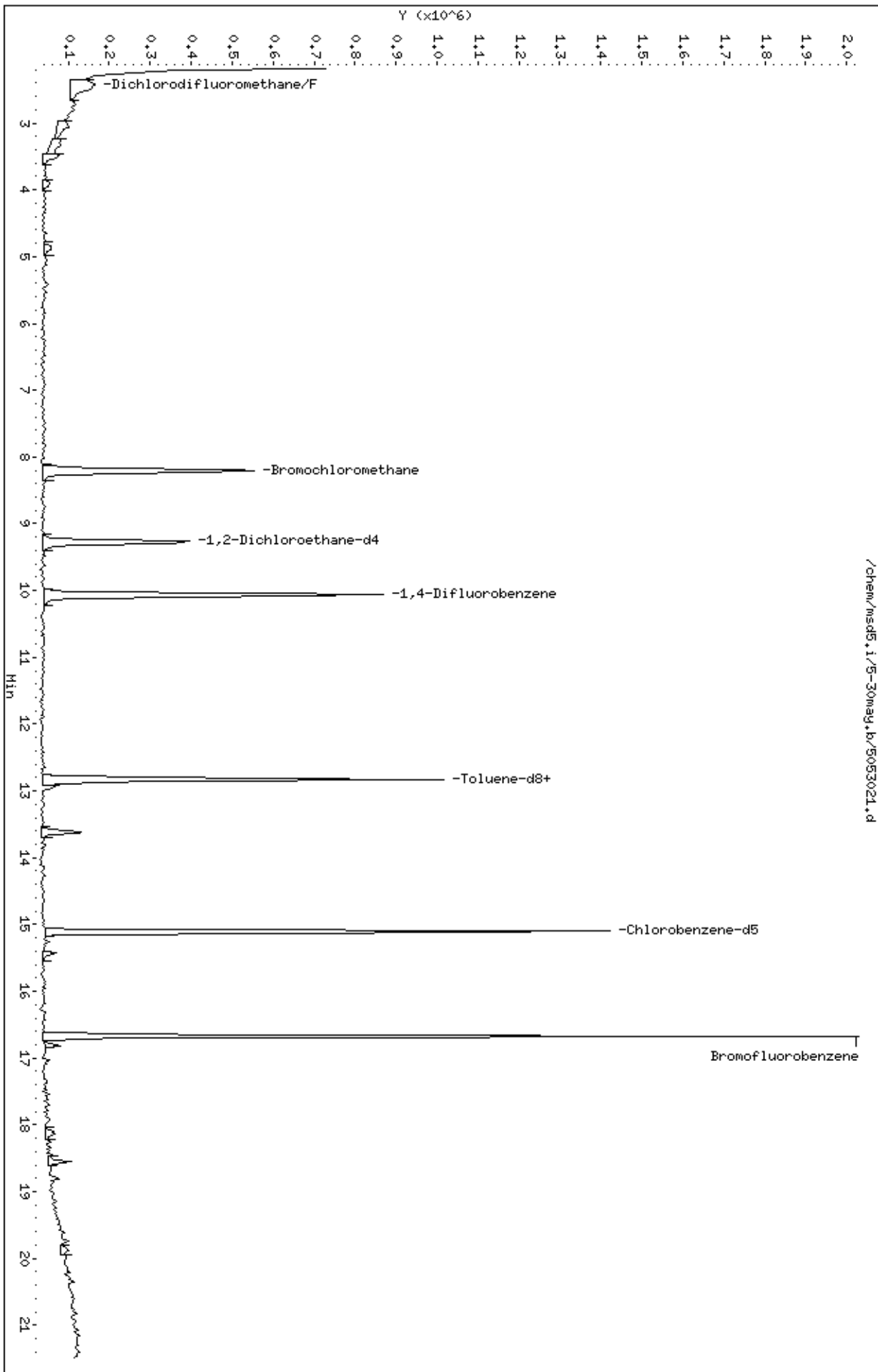
Column phase: RTX-624

Instrument: msd5.1

Operator: kp

Column diameter: 0.53

/chem/msd5.1/5-30may.b/5053021.d



Date : 30-MAY-2007 19:55

Client ID:

Instrument: msd5.i

Sample Info: 200mL #936

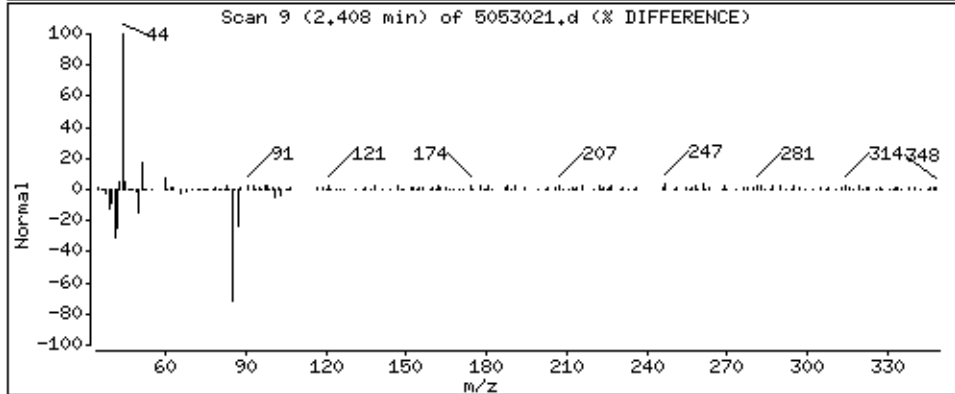
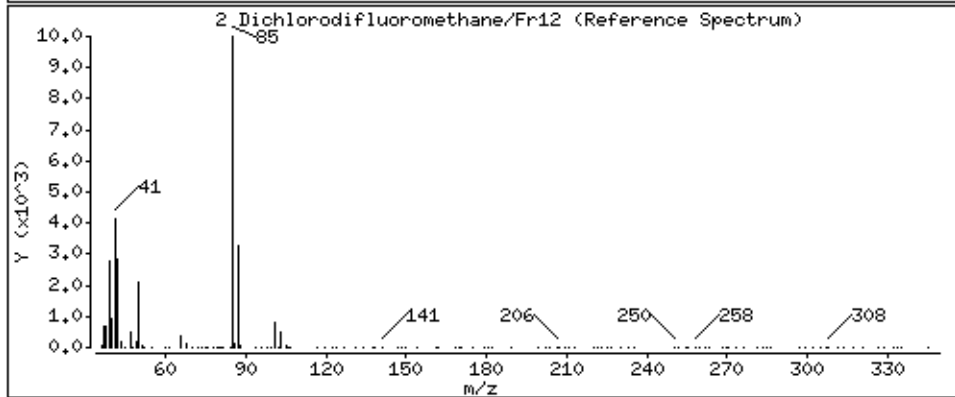
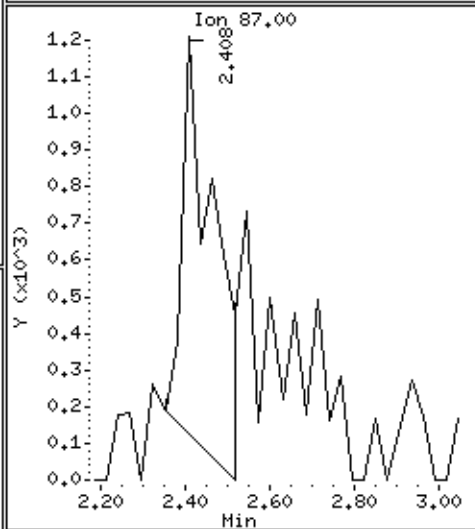
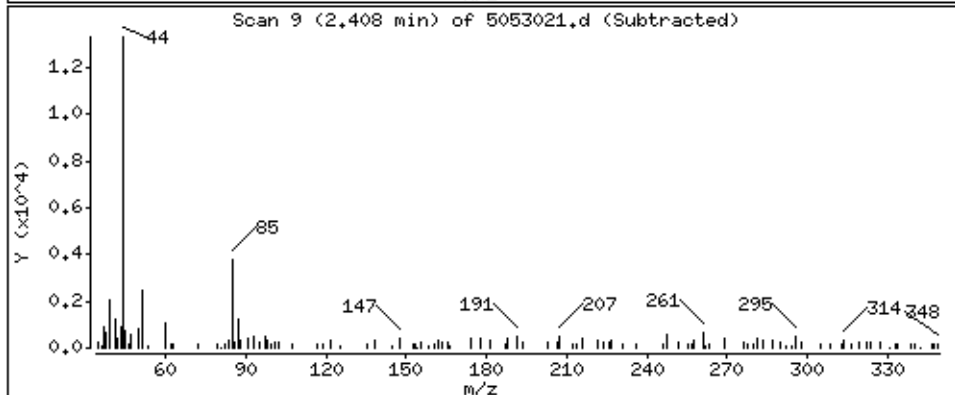
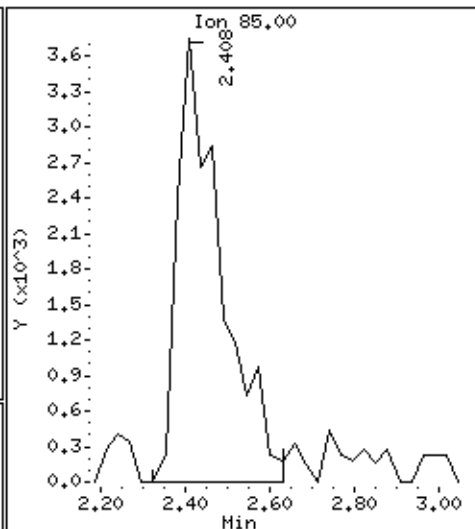
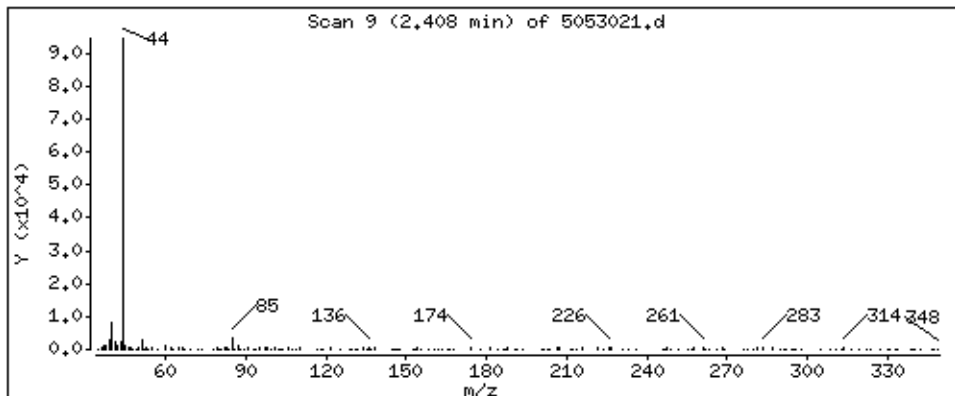
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

2 Dichlorodifluoromethane/Fr12

Concentration: 0.8561 PPBV



Date : 30-MAY-2007 19:55

Client ID:

Instrument: msd5.i

Sample Info: 200mL #936

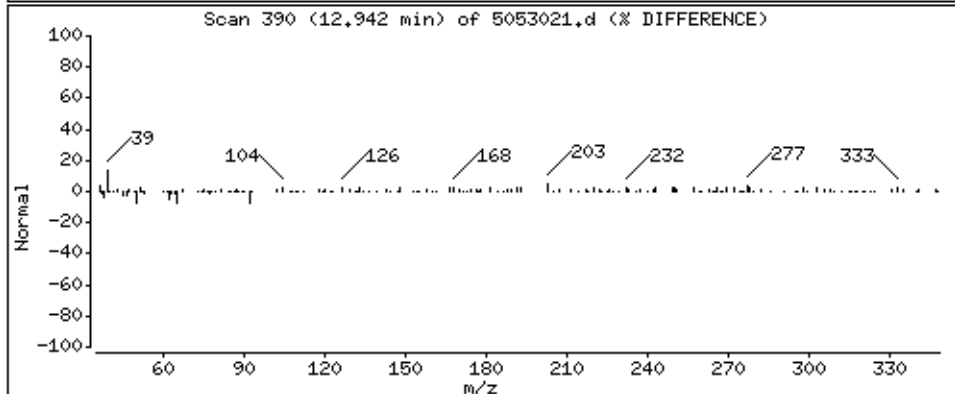
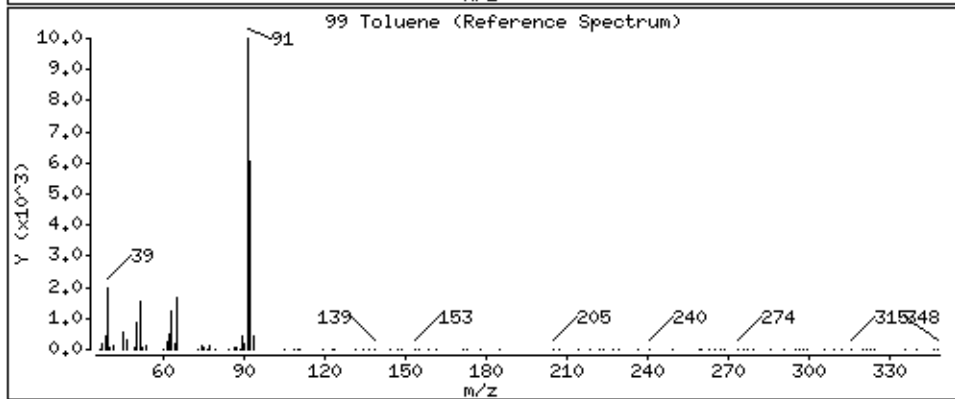
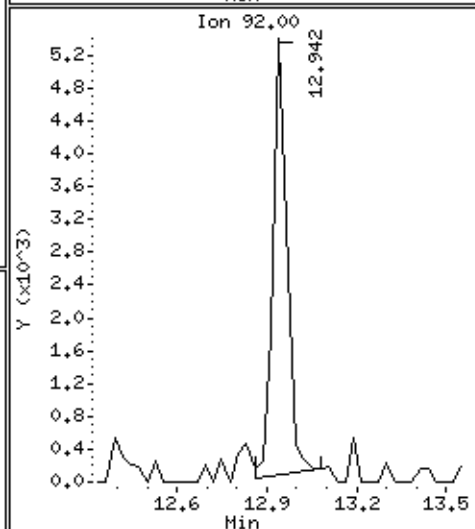
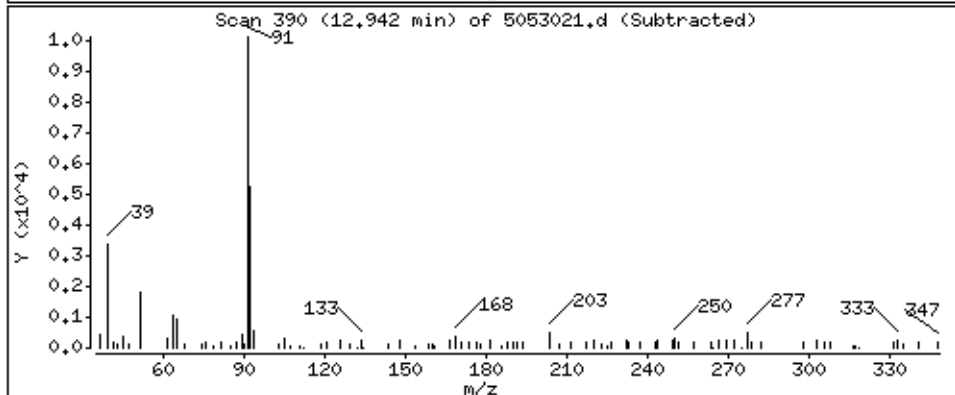
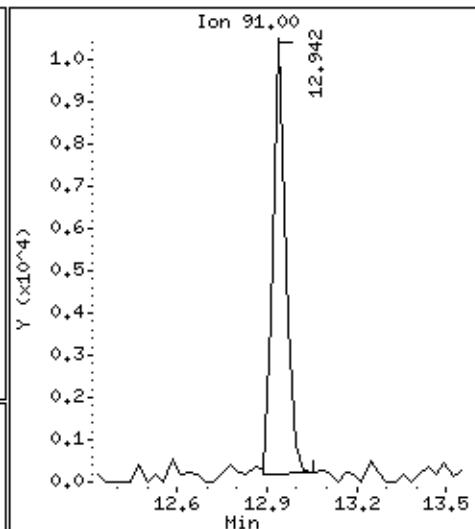
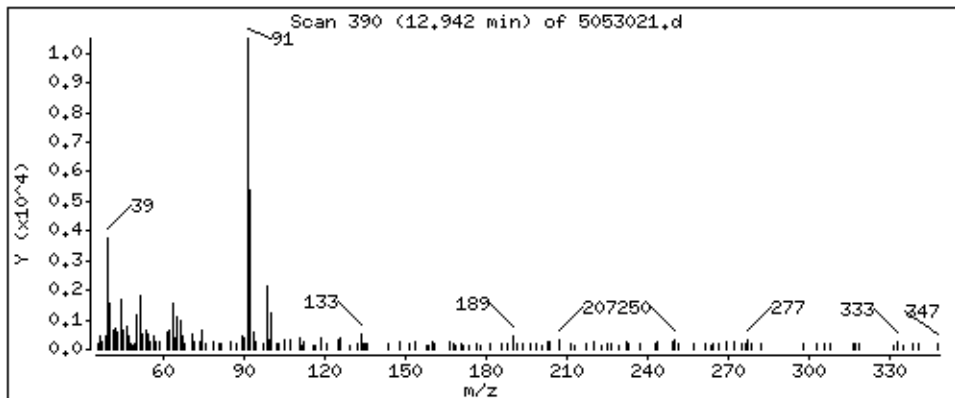
Operator: kr

Column phase: RTX-624

Column diameter: 0.53

99 Toluene

Concentration: 0.9788 PPBV



QC Results and Raw Data



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0705451-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053008	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/07 12:05 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#: 0705451-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053008	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/07 12:05 PM

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	96	70-130

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053008.d
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
 Inj Date : 30-MAY-2007 12:05
 Operator : JG Inst ID: msd5.i
 Smp Info : 200mL #13673
 Misc Info : Humid
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 30-May-2007 15:51 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.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 FINAL									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 57 Bromochloromethane CAS #: 74-97-5									
8.214	8.214	(1.000)	130	338654	25.0000		80.00- 120.00	100.00	
8.214	8.214	(1.000)	128	270238			50.11- 110.11	79.80	
8.214	8.187	(1.000)	49	971526			258.57- 318.57	286.88	

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1367687	25.0000		80.00- 120.00	100.00	
10.067	10.067	(1.000)	88	241163			0.00- 48.31	17.63	

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	1057738	25.0000		80.00- 120.00	100.00	
15.099	15.099	(1.000)	82	681133			33.54- 93.54	64.40	

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.293	9.265	(1.131)	65	626717	23.0855	23.086	80.00- 120.00	100.00	
9.265	9.265	(1.128)	67	275393			25.98- 85.98	43.94	

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1235140	24.8109	24.811	80.00- 120.00	100.00	
12.832	12.832	(1.275)	70	140825			0.00- 41.05	11.40	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPEV)	(PPBV)	TARGET RANGE	RATIO
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\$ 97 Toluene-d8 (continued)

12.832	12.832	(1.275)	100	779912			36.04- 96.04	63.14
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\$ 122 Bromofluorobenzene

CAS #: 460-00-4

16.675	16.675	(1.104)	174	640865	24.1147	24.115	80.00- 120.00	100.00
16.675	16.675	(1.104)	95	1051205			132.47- 192.47	164.03
16.675	16.675	(1.104)	176	604931			64.80- 124.80	94.39

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
 Lab File ID: 5053008.d
 Lab Smp Id: Lab Blank
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: JG
 Method File: /chem/msd5.i/5-30may.b/t14q529a.m
 Misc Info: Humid

Calibration Date: 30-MAY-2007
 Calibration Time: 10:20
 Client Smp ID: Lab Blank
 Level: LOW
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	338654	-14.33
79 1,4-Difluorobenze	1596346	957808	2234884	1367687	-14.32
108 Chlorobenzene-d5	1223968	734381	1713555	1057738	-13.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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: 5-30may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-30may.b/t14q529a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	23.086	92.34	70-130
\$ 97 Toluene-d8	25.000	24.811	99.24	70-130
\$ 122 Bromofluorobenzene	25.000	24.115	96.46	70-130

Data File: /chem/msd5.1/5-30may.b/5053008.d

Date: 30-MAY-2007 12:05

Client ID: Lab Blank

Sample Info: 200mL #13673

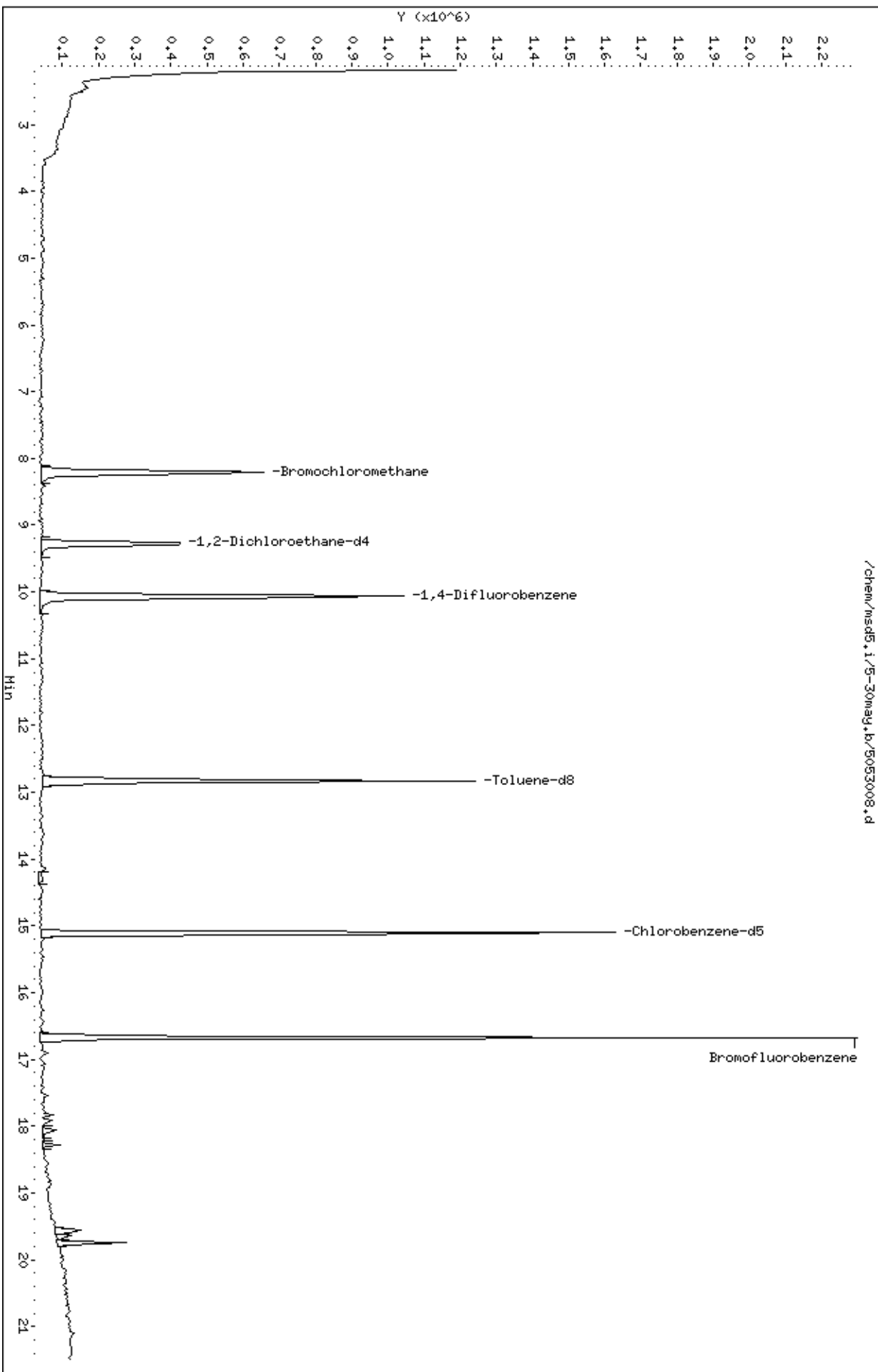
Column phase: RTX-624

Instrument: msd5.1

Operator: JG

Column diameter: 0.53

/chem/msd5.1/5-30may.b/5053008.d



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0705451

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						TOTAL OUT
		1,2-Dichloroethane-d 4	#	Toluene-d8	#	4-Bromofluorobenze ne	#	
01	051707 AMS4	92		98		103		0
02	051707 AMS99	89		99		101		0
03	051707 TB	88		100		95		0
04	051707 AMS6	94		98		98		0
05	Lab Blank	92		99		96		0
06	CCV	96		99		102		0
07	LCS	92		100		101		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
 Lab File ID: 5053005.d
 Instrument ID: msd5.i

SDG No: 0705451
 Date Analyzed: 05/30/2007
 Time Analyzed: 10:20 AM

		Chlorobenzene-d5		1,4-Difluorobenzene		Bromochloromethane	
		Area	RT	Area	RT	Area	RT
		#	#	#	#	#	#
24-HOUR STD		1223968	15.1	1596346	10.07	395291	8.21
UPPER LIMIT		1713555	15.43	2234884	10.40	553407	08.54
LOWER LIMIT		734381	14.77	957808	09.74	237175	07.88
CLIENT SAMPLE NO							
01	051707 AMS4	943915	15.1	1207025	10.07	317031	8.21
02	051707 AMS99	923072	15.1	1205121	10.07	313517	8.21
03	051707 TB	945965	15.1	1170355	10.07	313624	8.21
04	051707 AMS6	910840	15.1	1162499	10.07	291000	8.21
05	Lab Blank	1057738	15.1	1367687	10.07	338654	8.21
06	CCV	1223968	15.1	1596346	10.07	395291	8.21
07	LCS	1007208	15.1	1282730	10.07	324229	8.19
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 : 29-MAY-2007 15:42
 End Cal Date : 29-MAY-2007 20:44
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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	Level 7	RRF	% RSD
2 Dichlorodifluoromethane/Fr12	+++++	3.72970	5.87500	4.30608	4.15708	4.08363			
	4.46096							4.43541	16.839
3 Freon 114	+++++	3.68098	5.27186	4.28692	4.14578	4.13891			
	3.92809							4.24209	12.893
4 Chloromethane	+++++	+++++	4.80871	3.84264	4.02746	3.88042			
	3.46383							4.00461	12.368
21 Butane	+++++	+++++	1.11940	0.90873	0.86908	0.86095			
	0.85310							0.92225	12.173
6 1,3-Butadiene	+++++	2.48402	3.95675	3.27523	3.25400	3.25905			
	3.16479							3.23231	14.460
5 Vinyl Chloride	+++++	2.51337	3.71794	3.46633	3.33712	3.29960			
	3.20385							3.25637	12.439
27 Methanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
7 Bromomethane	+++++	1.67053	2.35356	1.89691	1.89882	1.91404			
	1.87318							1.93451	11.608
35 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
30 Isopentane	+++++	+++++	6.87370	5.58592	5.24023	5.35874			
	5.20818							5.65336	12.349

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
 End Cal Date : 29-MAY-2007 20:44
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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	Level 7	RRF	% RSD
8 Chloroethane	200.000 1.57937	1.67194	2.04815	1.72271	1.69648	1.64213		1.72680	9.555
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
9 Trichlorofluoromethane/Fr11	4.39434	3.40227	5.66703	4.54945	4.36369	4.45020		4.47116	16.118
11 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
41 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
14 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
42 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
13 Ethanol	1.29726	+++++	1.61498	1.31750	1.35578	1.27302		1.37171	10.157
45 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
17 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
 End Cal Date : 29-MAY-2007 20:44
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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	Level 7	RRF	% RSD
23 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
19 Freon 113	+++++	2.48402	3.11662	2.67387	2.74041	2.76627		2.73760	7.689
24 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
20 1,1-Dichloroethene	+++++	3.58543	5.28257	4.26379	4.08669	4.21816		4.26876	12.997
22 Acetone	+++++	+++++	1.87352	1.52120	1.51107	1.51609		1.59231	9.896
49 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
50 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
25 Carbon Disulfide	+++++	4.89091	7.20307	5.91247	5.78364	5.74795		5.87706	12.689
28 3-Chloropropene	+++++	+++++	1.12260	0.95389	0.95729	0.97711		0.99294	7.365
26 2-Propanol	+++++	+++++	9.06868	6.34052	6.28378	6.51673		6.93947	17.210

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
 End Cal Date : 29-MAY-2007 20:44
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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
51 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
54 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
33 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
34 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
29 Methylene Chloride	+++++	3.91738	4.45296	4.05803	3.93492	3.87793		4.00350	5.942
39 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
40 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
31 MTBE	+++++	2.70449	2.51114	3.88652	3.47320	3.32988		3.12343	16.824
32 trans-1,2-Dichloroethene	+++++	1.86664	2.57121	2.15060	2.08051	2.09402		2.12856	11.176

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
 End Cal Date : 29-MAY-2007 20:44
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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	Level 7	RRF	% RSD
44 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
60 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
38 Hexane	+++++	4.78036	6.59127	5.26321	5.19213	5.19510		5.35177	11.788
63 Vinyl Acetate	+++++	+++++	0.48526	0.48004	0.49455	0.51192		0.49588	2.782
46 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
59 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
47 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
48 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
43 1,1-Dichloroethane	+++++	3.28689	5.28060	4.36747	4.20880	4.22479		4.25730	14.897
67 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
 End Cal Date : 29-MAY-2007 20:44
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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
55 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
110 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
74 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
73 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
77 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
70 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
52 cis-1,2-Dichloroethene	+++++	2.97211	3.96711	3.21722	3.26373	3.25730	3.16169	3.30653	10.313
53 2-Butanone	+++++	0.71855	0.95624	0.80862	0.80671	0.83146	0.81311	0.82245	9.308

Air Toxics Ltd.

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 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
76 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
78 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
56 Tetrahydrofuran	+++++	4.02761	5.76261	4.00834	3.95228	3.95033		4.26523	17.236
58 Chloroform	2.63247	2.89638	3.60773	3.05828	3.09415	3.04360		3.04977	9.580
187 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
61 Cyclohexane	+++++	1.71706	2.83715	2.36745	2.22235	2.22883		2.25587	15.998
62 1,1,1-Trichloroethane	+++++	2.90528	3.94631	3.25147	3.26835	3.29077		3.32174	10.210
81 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
65 Carbon Tetrachloride	+++++	2.44311	3.38869	2.84513	2.86611	2.88706		2.89398	10.399
83 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 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
87 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
68 2,2,4-Trimethylpentane	+++++	10.25538	15.84969	13.15898	12.58847	12.42203		12.71810	14.343
69 Benzene	1.12278	1.04294	1.39176	1.14625	1.09325	1.04641		1.12252	11.371
88 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
89 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
72 1,2-Dichloroethane	+++++	0.66259	0.89731	0.79334	0.74026	0.74256		0.76357	10.193
93 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
94 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
95 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
104 Octane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 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	Level 7	RRF	% RSD
75 Heptane	+++++	0.19465	0.19356	0.13746	0.12638	0.13170			
	0.13154							0.15255	21.225
86 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
	+++++							+++++	+++++
80 Trichloroethene	+++++	0.38172	0.64616	0.47752	0.44124	0.44152			
	0.43515							0.47055	19.415
96 Methyl Cyclohexane	+++++	0.59621	0.87511	0.65319	0.64182	0.61614			
	0.61002							0.66541	15.757
98 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
	+++++							+++++	+++++
92 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
	+++++							+++++	+++++
107 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
	+++++							+++++	+++++
82 1,2-Dichloropropane	+++++	0.42725	0.59919	0.49504	0.47458	0.46780			
	0.46990							0.48896	11.930
84 1,4-Dioxane	+++++	+++++	0.31521	0.23910	0.24614	0.23018			
	0.22749							0.25162	14.428
85 Bromodichloromethane	+++++	0.54599	0.82970	0.69971	0.69902	0.69951			
	0.69687							0.69513	12.933

Air Toxics Ltd.

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 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
120 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
121 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
90 cis-1,3-Dichloropropene	+++++	0.39754	0.59007	0.53286	0.48983	0.50627		0.50154	12.570
136 Decane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
127 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
91 4-Methyl-2-pentanone	+++++	0.30898	0.64288	0.49905	0.48636	0.47601		0.48102	22.049
99 Toluene	+++++	0.93138	1.32845	1.10392	1.05615	1.03627		1.07800	12.548
132 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
135 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
186 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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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
140 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
100 trans-1,3-Dichloropropene	+++++	0.50845	0.84881	0.70278	0.71353	0.72089		0.70246	15.574
101 1,1,2-Trichloroethane	+++++	0.37764	0.62765	0.48112	0.45255	0.46075		0.47424	17.485
145 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
102 Tetrachloroethene	+++++	0.61301	0.73852	0.56801	0.55407	0.55058		0.59311	12.828
148 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
112 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
103 2-Hexanone	+++++	+++++	1.06323	0.81955	0.84521	0.85038		0.88672	11.235
105 Dibromochloromethane	+++++	0.68385	0.87093	0.76438	0.75839	0.77552		0.77203	7.742
151 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 Cal Date : 30-May-2007 15:48 jgray
 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	Level 7	RRF	% RSD
106 1,2-Dibromoethane	+++++	0.64923	0.82491	0.73006	0.72693	0.71970		0.72482	7.927
117 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
152 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
109 Chlorobenzene	+++++	1.15882	1.45125	1.10431	1.04671	1.06721		1.14489	13.652
116 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
111 Ethyl Benzene	+++++	0.38972	0.69470	0.59090	0.58323	0.57050		0.56264	17.572
157 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
113 m,p-Xylene	+++++	0.62324	0.92967	0.72713	0.71720	0.71124		0.73252	14.138
125 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
114 o-Xylene	+++++	0.49847	1.00166	0.68801	0.66790	0.66206		0.69275	23.956

Air Toxics Ltd.

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 Integrator : HP RTE
 Method file : /chem/msd5.i/5-29may.b/t14q529a.m
 Cal Date : 30-May-2007 15:48 jgray
 Curve Type : Average

Compound	0.30000	0.50000	2.000	25.000	50.000	100.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	200.000							
	Level 7							
115 Styrene	0.75182	0.79894	1.28435	1.06831	1.06959	1.06229		
	1.05248						1.01254	17.937
118 Bromoform	+++++	0.48430	0.79842	0.65484	0.66649	0.68314		
	0.68260						0.66163	15.284
129 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 Cumene	1.61745	1.82447	2.95026	2.17017	2.11436	2.08005		
	2.05891						2.11652	19.642
130 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
133 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
134 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
123 1,1,2,2-Tetrachloroethane	+++++	0.97509	1.47796	1.04416	1.01239	1.01413		
	0.96842						1.08202	18.110
124 Propylbenzene	+++++	2.26537	3.81444	2.83305	2.75807	2.76105		
	2.07992						2.75198	21.947
137 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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	Level 7	RRF	% RSD
126 4-Ethyltoluene	200.000 1.94345	1.89795	3.17263	2.44305	2.42525	2.38909		2.37857	19.333
158 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
139 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
128 1,3,5-Trimethylbenzene	1.94183	1.59214	2.60590	1.95344	1.91685	1.95571		1.99431	16.596
159 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
142 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
189 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
144 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
131 1,2,4-Trimethylbenzene	1.85215	1.68972	2.88917	2.16934	2.12810	2.11912		2.14127	19.236
147 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

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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
149 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
138 1,3-Dichlorobenzene	+++++	1.30968	1.97642	1.32930	1.29022	1.29864		1.40355	20.181
141 1,4-Dichlorobenzene	+++++	0.90964	1.46709	1.05261	1.08296	1.07267		1.10990	16.824
143 alpha-Chlorotoluene	+++++	1.06838	2.07154	1.86993	1.97204	2.10109		1.85176	21.190
150 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
146 1,2-Dichlorobenzene	+++++	1.47556	2.12615	1.34329	1.29080	1.29237		1.45593	23.354
190 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
153 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
160 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
154 1,2,4-Trichlorobenzene	+++++	+++++	1.53874	0.86580	0.89893	0.93748		1.02387	28.236

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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	Level 7	RRF	% RSD
155 Hexachlorobutadiene	0.67947	+++++	1.39614	0.70711	0.74504	0.71452		0.84846	36.190 <-
156 Naphthalene	2.16556	+++++	4.72728	2.58758	2.81032	2.90596		3.03934	32.434 <-
188 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
161 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
\$ 71 1,2-Dichloroethane-d4	2.27213	1.89977	1.95214	1.91095	1.94055	2.04894		2.00408	7.062
\$ 97 Toluene-d8	0.91334	0.88388	0.90642	0.93226	0.91722	0.90670		0.90997	1.748
\$ 122 Bromofluorobenzene	0.64369	0.60688	0.62071	0.64948	0.62853	0.61947		0.62813	2.547

Calibration History

Method : /chem/msd5.i/5-29may.b/t14q529a.m
Start Cal Date: 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
29-MAY-2007 15:42	AFCEElow	/chem/msd5.i/5-29may.b/5052911.d
Cal Level: 2 , Cal Amount: 0.50000		
29-MAY-2007 16:10	AT04Low+ENSR	/chem/msd5.i/5-29may.b/5052912.d
Cal Level: 3 , Cal Amount: 2.00000		
29-MAY-2007 20:44	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052920.d
Cal Level: 4 , Cal Amount: 25.00000		
29-MAY-2007 17:06	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052914.d
Cal Level: 5 , Cal Amount: 50.00000		
29-MAY-2007 17:34	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052915.d
Cal Level: 6 , Cal Amount: 100.00000		
29-MAY-2007 18:02	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052916.d
Cal Level: 7 , Cal Amount: 200.00000		
29-MAY-2007 18:31	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052917.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

| Ccal Level: 8 , Ccal Amount: 50.000 |

+=====+

| 29-MAY-2007 17:34 | AT04MDL+ENSR | /chem/msd5.i/5-29may.b/5052915a.d |

+-----+

ION ABUNDANCE CRITERIA

m/z	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95
75	30.0 - 60.0% of mass 95
95	Base peak, 100.00% relative abundance
96	5.0 - 9.0% of mass 95
173	Less than 2.0% of mass 174
174	Greater than 50.0% of mass 95
175	5.0 - 9.0% of mass 174
176	Greater than 95.0% but less than 101.0% of mass 174
177	5.0 - 9.0% of mass 176

1 - value in parenthesis is % mass 174
 Verify 176/174 m/z Ratio: $\frac{878 \text{ (272)}}{5124107} / \frac{907 \text{ (276)}}{5124107} = 96.75\%$

Calculation Check:
 $\frac{5124107}{5124107} \times \frac{5124107}{5124107} = 1$

ppbv of compound =

Area Sample

Conc:is

RRF

Reported Result

BFB Injection Date: 5/29/07
 BFB Injection Time: 1443
 BFB File ID: SDS22909
 Tekmar Purge Flow: 12.2 mL/min
 Vacuum: 6.33 x 10⁻⁶ Torr
 IS/Std #: 1483-7259 Exp. Date: 8/10/07
 BCM 313773
 1,4-DFB 1272249
 CB-d5 1008159
 Verified CCV IS vs ICAL mid-point (-40%AD) 45
 NOAH Cart #: NA File #: NA

File ID: _____
 Compound: _____
 Initials: _____

File #	Sample / Client Name	Can #	Pressure	Amnt Loaded	DF	Encoder Int.	Date Analyzed	Time Analyzed	Review Int.	Comments
1	SDS22909	443-2080	50mg	2ml	1.00	Q-	5/29/07	1443	Q-	
2	BFB Time Check	2441	Humid	200 uL	1.00	Q-	5/29/07	1515	Q-	
3	System Blank									
4	ICAR Level 1	1483-288	0.3 ppbv	0.3 mL				1542	Q-	41452a
5			0.5 ppbv	0.5 mL				1410	Q-	
6			2.0 ppbv	2.0 mL				1638	45	Std Level
7			25 ppbv	25 uL				1780	45	
8			50 ppbv	50 uL				1724	45	
9			100 ppbv	100 uL				1802	45	
			200 ppbv	200 uL				1831	45	

Signature: *Spencer Green*

Date: 5/29/07

10	X	CDS 2918	System Blank	7441	Humid	250umL	1.00	54	5/29/07	1855	45
11	✓	5052919	System Blank	34583	Humid	200umL	1.00	54		1858	63
12	✓	20	REAL: Level 3	1487288	200umL	200umL	1.00	45		2094	45
13	✓	21	REAL: LCS	1487292	50umL	50umL	1.00	54		2153	44
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Comments: Flow Controller: AA9203108 Flow Meter: 200-3344, Exp. 7/28/07

Actual: 25.0 mL/min Nominal: 22.4 mL/min At 5/29/07

Signature 

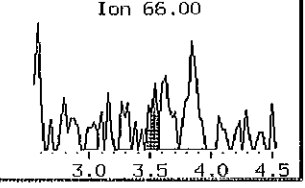
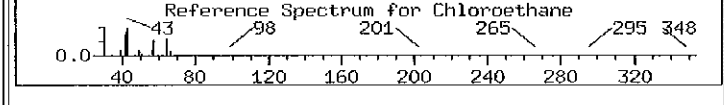
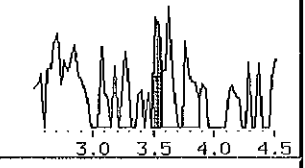
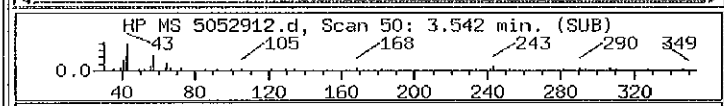
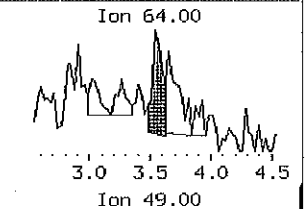
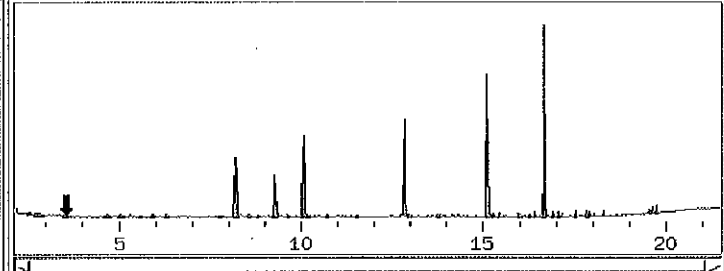
Date 5/29/07

Initial Calibration Narrative

A seven-point initial calibration was analyzed on MSD-5 on May 29, 2007.

Sample: ICAL Type: CALIB_2 Inj.Date: 29-MAY-2007 16:10

- ** 57 Bromochlorometl
- ** 79 1,4-Difluorobe
- ** 108 Chlorobenzene-
- ** 71 1,2-Dichloroetl
- ** 97 Toluene-d8
- ** 122 Bromofluoroben:
- + 2 Dichlorodifluo
- + 3 Freon 114
- + 5 Vinyl Chloride
- + 6 1,3-Butadiene
- + 7 Bromomethane
- + 8 Chloroethane**
- + 9 Trichlorofluor
- + 19 Freon 113
- + 20 1,1-Dichloroetl
- + 25 Carbon Disulfu
- + 29 Methylene Chlo
- + 31 MTBE
- + 32 trans-1,2-Dich.
- + 38 Hexane
- + 43 1,1-Dichloroetl
- + 53 2-Butanone
- + 52 cis-1,2-Dichlo
- + 56 Tetrahydrofura
- + 58 Chloroform



5052912.d

Hit#	RT(mIn)	Response	Amount	Conc	Ratio	Flags	Report:
3	3.542	9287	0.4291	0.4291	100	a	
	3.514	2538			27		
	3.542	2673			29		
4	3.652	9316	0.4304	0.4304	100	Ta	
	3.625	3019			32		

For Integration	GL 5/30/07
Split Peak	✓
Peak Tailing	
Background Subtraction	
Sum In	
Selected Peak	

Mr 5/30/07

File Security Edit Display Process Spectra Help

Sample: ICAL Type: CALIB_2 Inj.Date: 29-MAY-2007 16:10

- ** 57 Bromochlorometl
- ** 79 1,4-Difluorober
- ** 108 Chlorobenzene-
- ** 71 1,2-Dichloroetl
- ** 97 Toluene-d8
- ** 122 Bromofluoroben:
- + 2 Dichlorodifluo
- + 3 Freon 114
- + 5 Vinyl Chloride
- + 6 1,3-Butadiens
- + 7 Bromomethane
- + 8 Chloroethane**
- + 9 Trichlorofluor
- + 19 Freon 113
- + 20 1,1-Dichloroetl
- + 25 Carbon Disulfid
- + 29 Methylene Chlor
- + 31 MTBE
- + 32 trans-1,2-Dich.
- + 38 Hexane
- + 43 1,1-Dichloroetl
- + 53 2-Butanone
- + 52 cis-1,2-Dichlo
- + 56 Tetrahydrofural
- + 58 Chloroform

HP MS 5052912.d, Scan 50: 3.542 min. (SUB)

Ion 64.00

Reference Spectrum for Chloroethane

Ion 49.00

5052912.d

Hit#	RT (min)	Response	Amount	Conc	Ratio	Flags	Report:
1	3.542	10708	0.4964	0.4964	100	AM	
	3.514	2538			24		
	3.542	2672			25		

- Mark Chloroethane Undetected.

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

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

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

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

Report Date: 30-May-2007 15:41

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052921.d
 Lab Smp Id: ICAL Client Smp ID: LCS
 Inj Date : 29-MAY-2007 21:53
 Operator : JG Inst ID: msd5.i
 Smp Info : 50mL #1487-272
 Misc Info : 200ppbv -> 50ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.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								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				(PPBV)	(PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====

* 57	Bromochloromethane					CAS #: 74-97-5		
8.187	8.187	(1.000)	130	328581	25.0000	80.00- 120.00	100.00	
8.187	8.187	(1.000)	128	246155		50.27- 110.27	74.91	
8.187	8.187	(1.000)	49	1012849		281.04- 341.04	308.25	

* 79	1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067	(1.000)	114	1294035	25.0000	80.00- 120.00	100.00	
10.067	10.067	(1.000)	88	234097		0.00- 48.57	18.09	

* 108	Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099	(1.000)	117	1016588	25.0000	80.00- 120.00	100.00	
15.099	15.099	(1.000)	82	638981		33.54- 93.54	62.86	

\$ 71	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265	(1.132)	65	633360	24.0454	80.00- 120.00	100.00	
9.265	9.265	(1.132)	67	311083		25.98- 85.98	49.12	

\$ 97	Toluene-d8					CAS #: 2037-26-5		
12.832	12.832	(1.275)	98	1187396	25.2094	80.00- 120.00	100.00	
12.832	12.832	(1.275)	70	136597		0.00- 41.05	11.50	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPEV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 97 Toluene-d8 (continued)

12.832	12.832	(1.275)	100	757476			36.04- 96.04	63.79
--------	--------	---------	-----	--------	--	--	--------------	-------

\$ 122 Bromofluorobenzene

CAS #: 460-00-4

16.675	16.675	(1.104)	174	632002	24.7438	24.744	80.00- 120.00	100.00
16.675	16.675	(1.104)	95	1045367			131.53- 191.53	165.41
16.675	16.675	(1.104)	176	615640			65.40- 125.40	97.41

1 Propylene

CAS #: 115-07-1

2.353	2.353	(0.287)	41	2233228	50.9588	50.959	80.00- 120.00	100.00
2.353	2.353	(0.287)	42	1504094			36.96- 96.96	67.35
2.353	2.353	(0.287)	39	1558713			37.69- 97.69	69.80

2 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.408	2.408	(0.294)	85	2842771	48.7647	48.765	80.00- 120.00	100.00
2.408	2.408	(0.294)	87	929381			1.62- 61.62	32.69

3 Freon 114

CAS #: 76-14-2

2.518	2.546	(0.308)	135	2788676	50.0168	50.017	80.00- 120.00	100.00
2.518	2.546	(0.308)	137	898608			0.80- 60.80	32.22

4 Chloromethane

CAS #: 74-87-3

2.657	2.657	(0.325)	50	2485583	47.2243	47.224	80.00- 120.00	100.00
2.657	2.684	(0.325)	52	777295			0.00- 59.51	31.27

5 Vinyl Chloride

CAS #: 75-01-4

2.850	2.850	(0.348)	62	2295483	53.6338	53.634	80.00- 120.00	100.00
2.850	2.850	(0.348)	64	679679			0.00- 59.15	29.61

6 1,3-Butadiene

CAS #: 106-99-0

2.823	2.823	(0.345)	54	2197289	51.7216	51.722	80.00- 120.00	100.00
2.823	2.823	(0.345)	39	2510833			92.11- 152.11	114.27

7 Bromomethane

CAS #: 74-83-9

3.376	3.376	(0.412)	94	1325019	52.1134	52.113	80.00- 120.00	100.00
3.376	3.376	(0.412)	96	1242843			64.95- 124.95	93.80

8 Chloroethane

CAS #: 75-00-3

3.486	3.514	(0.426)	64	1169705	51.5386	51.539	80.00- 120.00	100.00
3.486	3.486	(0.426)	49	366779			1.83- 61.83	31.36
3.486	3.514	(0.426)	66	327916			0.00- 57.39	28.03

9 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.818	3.818	(0.466)	101	2981684	50.7386	50.739	80.00- 120.00	100.00
3.818	3.818	(0.466)	103	1908394			35.72- 95.72	64.00

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPBV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

13 Ethanol CAS #: 64-17-5
 4.177 4.177 (0.510) 45 1001511 55.5509 55.551 80.00- 120.00 100.00
 4.177 4.177 (0.510) 43 184480 0.00- 49.45 18.42
 4.177 4.177 (0.510) 46 406974 11.95- 71.95 40.64

19 Freon 113 CAS #: 76-13-1
 4.647 4.647 (0.568) 151 2050329 56.9837 56.984 80.00- 120.00 100.00
 4.647 4.647 (0.568) 153 1266678 32.16- 92.16 61.78
 4.647 4.647 (0.568) 101 2667615 100.00- 160.00 130.11

20 1,1-Dichloroethene CAS #: 75-35-4
 4.675 4.675 (0.571) 61 3085705 54.9984 54.998 80.00- 120.00 100.00
 4.675 4.675 (0.571) 96 1447359 19.13- 79.13 46.91
 4.675 4.675 (0.571) 98 952584 0.28- 60.28 30.87

22 Acetone CAS #: 67-64-1
 4.841 4.841 (0.591) 58 1024500 48.9533 48.953 80.00- 120.00 100.00
 4.813 4.841 (0.588) 43 3671091 327.94- 387.94 358.33

26 2-Propanol CAS #: 67-63-0
 5.035 5.035 (0.615) 45 4365491 47.8635 47.863 80.00- 120.00 100.00
 5.035 5.035 (0.615) 43 854212 0.00- 49.24 19.57
 5.035 5.035 (0.615) 59 143011 0.00- 33.25 3.28

25 Carbon Disulfide CAS #: 75-15-0
 5.007 5.007 (0.612) 76 3890875 50.3715 50.371 80.00- 120.00 100.00

28 3-Chloropropene CAS #: 107-05-1
 5.311 5.311 (0.649) 76 630854 48.3397 48.340 80.00- 120.00 100.00
 5.311 5.311 (0.649) 41 3347565 480.64- 540.64 530.64

29 Methylene Chloride CAS #: 75-09-2
 5.560 5.560 (0.679) 49 2785514 52.9374 52.937 80.00- 120.00 100.00
 5.560 5.560 (0.679) 84 1134060 9.87- 69.87 40.71
 5.560 5.560 (0.679) 51 806371 0.00- 59.58 28.95

31 MTBE CAS #: 1634-04-4
 5.892 5.892 (0.720) 73 1907407 46.4632 46.463 80.00- 120.00 100.00
 5.892 5.892 (0.720) 57 736012 5.77- 65.77 38.59
 5.892 5.892 (0.720) 41 792960 10.34- 70.34 41.57

32 trans-1,2-Dichloroethene CAS #: 156-60-5
 5.947 5.947 (0.726) 96 1344405 48.0554 48.055 80.00- 120.00 100.00
 5.947 5.947 (0.726) 61 2652163 164.17- 224.17 197.27
 5.947 5.947 (0.726) 98 853292 32.40- 92.40 63.47

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

38 Hexane CAS #: 110-54-3
 6.279 6.279 (0.767) 57 3373087 47.9543 47.954 80.00- 120.00 100.00
 6.279 6.279 (0.767) 43 2580083 46.14- 106.14 76.49
 6.279 6.279 (0.767) 86 390543 0.00- 41.50 11.58

43 1,1-Dichloroethane CAS #: 75-34-3
 6.721 6.721 (0.821) 63 2854811 51.0200 51.020 80.00- 120.00 100.00
 6.721 6.721 (0.821) 65 841440 0.00- 59.00 29.47

53 2-Butanone CAS #: 78-93-3
 7.799 7.800 (0.953) 72 533620 49.3653 49.365 80.00- 120.00 100.00
 7.799 7.800 (0.953) 43 4341216 796.36- 856.36 813.54
 7.799 7.800 (0.953) 57 283771 23.20- 83.20 53.18

52 cis-1,2-Dichloroethene CAS #: 156-59-2
 7.772 7.744 (0.949) 61 2136568 49.1634 49.163 80.00- 120.00 100.00
 7.772 7.772 (0.949) 96 1129748 25.31- 85.31 52.88
 7.772 7.772 (0.949) 98 715273 2.88- 62.88 33.48

56 Tetrahydrofuran CAS #: 109-99-9
 8.187 8.187 (1.000) 42 2540884 45.3252 45.325 80.00- 120.00 100.00
 8.187 8.187 (1.000) 71 478922 0.00- 48.47 18.85
 8.187 8.187 (1.000) 72 513127 0.00- 49.73 20.19

58 Chloroform CAS #: 67-66-3
 8.325 8.325 (1.017) 83 2011562 50.1838 50.184 80.00- 120.00 100.00
 8.325 8.325 (1.017) 85 1282416 33.68- 93.68 63.75

62 1,1,1-Trichloroethane CAS #: 71-55-6
 8.574 8.574 (1.047) 97 2131561 48.8237 48.824 80.00- 120.00 100.00
 8.574 8.574 (1.047) 99 1367254 32.24- 92.24 64.14

61 Cyclohexane CAS #: 110-82-7
 8.546 8.546 (1.044) 84 1446241 48.7781 48.778 80.00- 120.00 100.00
 8.546 8.546 (1.044) 56 3030397 177.94- 237.94 209.54
 8.546 8.546 (1.044) 41 1867779 93.55- 153.55 129.15

63 Vinyl Acetate CAS #: 108-05-4
 6.776 6.776 (0.828) 86 335258 51.4397 51.440 80.00- 120.00 100.00
 6.776 6.776 (0.828) 43 5941317 1767.50-1827.50 1772.16
 6.776 6.776 (0.828) 42 440302 104.58- 164.58 131.33

65 Carbon Tetrachloride CAS #: 56-23-5
 8.822 8.795 (1.078) 119 1872056 49.2177 49.218 80.00- 120.00 100.00
 8.822 8.795 (1.078) 117 1925632 71.97- 131.97 102.86

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

68	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.237	9.237	(1.128)	57	8141017	48.7028	48.703	80.00-	120.00	100.00	
9.237	9.237	(1.128)	56	2670713			2.91-	62.91	32.81	
9.237	9.237	(1.128)	41	2455108			0.00-	59.75	30.16	

69	Benzene					CAS #:	71-43-2			
9.237	9.237	(0.918)	78	2795203	48.1077	48.108	80.00-	120.00	100.00	
9.237	9.237	(0.918)	77	668273			0.00-	53.04	23.91	

72	1,2-Dichloroethane					CAS #:	107-06-2			
9.403	9.403	(0.934)	62	2027123	51.2890	51.289	80.00-	120.00	100.00	
9.403	9.403	(0.934)	64	600657			0.57-	60.57	29.63	

75	Heptane					CAS #:	142-82-5			
9.624	9.624	(0.956)	100	346412	43.8709	43.871	80.00-	120.00	100.00	
9.624	9.624	(0.956)	43	3847579			1063.83-	1123.83	1110.69	
9.624	9.624	(0.956)	71	1048504			257.42-	317.42	302.68	

80	Trichloroethene					CAS #:	79-01-6			
10.481	10.481	(1.041)	95	1190865	48.8932	48.893	80.00-	120.00	100.00	
10.481	10.481	(1.041)	130	1096871			65.35-	125.35	92.11	
10.481	10.481	(1.041)	97	763310			35.05-	95.05	64.10	

82	1,2-Dichloropropane					CAS #:	78-87-5			
10.979	10.979	(1.091)	63	1228584	48.5426	48.543	80.00-	120.00	100.00	
10.979	10.979	(1.091)	62	900625			43.36-	103.36	73.31	
10.979	10.979	(1.091)	41	1134771			62.33-	122.33	92.36	

84	1,4-Dioxane					CAS #:	123-91-1			
11.200	11.200	(1.113)	88	595375	45.7124	45.712	80.00-	120.00	100.00	
11.200	11.200	(1.113)	58	731250			87.73-	147.73	122.82	
11.200	11.200	(1.113)	57	239506			11.42-	71.42	40.23	

85	Bromodichloromethane					CAS #:	75-27-4			
11.532	11.532	(1.146)	83	1845676	51.2958	51.296	80.00-	120.00	100.00	
11.532	11.532	(1.146)	85	1170404			33.28-	93.28	63.41	

90	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.445	12.445	(1.236)	75	1293446	49.8242	49.824	80.00-	120.00	100.00	
12.445	12.445	(1.236)	77	403556			2.34-	62.34	31.20	
12.445	12.445	(1.236)	39	1392068			80.54-	140.54	107.62	

91	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.721	12.721	(1.264)	58	1261156	50.6519	50.652	80.00-	120.00	100.00	
12.721	12.721	(1.264)	43	4191997			296.95-	356.95	332.39	
12.721	12.721	(1.264)	85	335448			0.00-	57.61	26.60	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
99 Toluene						CAS #:	108-88-3		
12.942	12.942	(1.286)	91	2840038	50.8977	50.898	80.00-	120.00	100.00
12.942	12.942	(1.286)	92	1722805			28.86-	88.86	60.66

100 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
13.468	13.468	(0.892)	75	1449562	50.7470	50.747	80.00-	120.00	100.00
13.468	13.468	(0.892)	77	452827			1.06-	61.06	31.24
13.468	13.468	(0.892)	39	1379718			66.05-	126.05	95.18

101 1,1,2-Trichloroethane						CAS #:	79-00-5		
13.744	13.744	(0.910)	97	944433	48.9743	48.974	80.00-	120.00	100.00
13.744	13.744	(0.910)	99	590028			31.72-	91.72	62.47
13.744	13.744	(0.910)	83	758791			52.19-	112.19	80.34

102 Tetrachloroethene						CAS #:	127-18-4		
13.799	13.799	(0.914)	166	1169576	48.4943	48.494	80.00-	120.00	100.00
13.799	13.799	(0.914)	129	924700			54.09-	114.09	79.06
13.799	13.799	(0.914)	131	909075			52.34-	112.34	77.73

103 2-Hexanone						CAS #:	591-78-6		
14.131	14.131	(0.936)	58	1701830	47.1980	47.198	80.00-	120.00	100.00
14.131	14.131	(0.936)	43	4059070			204.79-	264.79	238.51
14.131	14.131	(0.936)	100	205885			0.00-	42.78	12.10

105 Dibromochloromethane						CAS #:	124-48-1		
14.297	14.297	(0.947)	129	1561225	49.7308	49.731	80.00-	120.00	100.00
14.297	14.297	(0.947)	127	1212556			48.77-	108.77	77.67

106 1,2-Dibromoethane						CAS #:	106-93-4		
14.463	14.463	(0.958)	107	1400509	47.5171	47.517	80.00-	120.00	100.00
14.463	14.463	(0.958)	109	1321879			62.51-	122.51	94.39

109 Chlorobenzene						CAS #:	108-90-7		
15.154	15.154	(1.004)	112	2159699	46.3899	46.390	80.00-	120.00	100.00
15.154	15.154	(1.004)	114	675757			2.97-	62.97	31.29
15.154	15.154	(1.004)	77	1399699			34.70-	94.70	64.81

111 Ethyl Benzene						CAS #:	100-41-4		
15.265	15.265	(1.011)	106	1144210	50.0113	50.011	80.00-	120.00	100.00
15.265	15.265	(1.011)	91	4013568			322.22-	382.22	350.77

113 m,p-Xylene						CAS #:	108-38-3		
15.431	15.431	(1.022)	106	1399608	46.9872	46.987	80.00-	120.00	100.00
15.431	15.431	(1.022)	91	3256875			202.98-	262.98	232.70

114 o-Xylene						CAS #:	95-47-6		
15.956	15.956	(1.057)	106	1347025	47.8185	47.818	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	3254697			210.36- 270.36	241.62	

115 Styrene CAS #: 100-42-5									
16.011	16.011	(1.060)	104	2142520	52.0365	52.036	80.00- 120.00	100.00	
16.011	16.011	(1.060)	78	1282063			31.61- 91.61	59.84	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	1397096	51.9281	51.928	80.00- 120.00	100.00	
16.260	16.260	(1.077)	171	713676			21.89- 81.89	51.08	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	2016866	45.8390	45.839	80.00- 120.00	100.00	
16.896	16.896	(1.119)	85	1315247			35.56- 95.56	65.21	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	4879392	50.4481	50.448	80.00- 120.00	100.00	
17.062	17.062	(1.130)	120	1412960			0.00- 58.00	28.96	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	4001483	49.3427	49.343	80.00- 120.00	100.00	
17.145	17.145	(1.135)	120	1829481			16.58- 76.58	45.72	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	4285275	49.2156	49.216	80.00- 120.00	100.00	
17.532	17.532	(1.161)	120	1799437			13.06- 73.06	41.99	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	2541505	44.5306	44.531	80.00- 120.00	100.00	
17.836	17.836	(1.181)	148	1663398			33.12- 93.12	65.45	
17.836	17.836	(1.181)	111	1198332			15.78- 75.78	47.15	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	2106072	46.6644	46.664	80.00- 120.00	100.00	
17.919	17.919	(1.187)	148	1337569			34.33- 94.33	63.51	
17.919	17.919	(1.187)	111	982215			18.49- 78.49	46.64	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.057	18.057	(1.196)	91	3955552	52.5311	52.531	80.00- 120.00	100.00	
18.057	18.057	(1.196)	126	660353			0.00- 47.06	16.69	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	2607052	44.0355	44.035	80.00- 120.00	100.00	
18.279	18.279	(1.211)	148	1600083			33.74- 93.74	61.38	
18.279	18.279	(1.211)	111	1182260			15.34- 75.34	45.35	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPEV)	FINAL	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====

154	1,2,4-Trichlorobenzene					CAS #:	120-82-1		
19.578	19.578	(1.297)	180	1707198	41.0049	41.005	80.00-	120.00	100.00
19.578	19.578	(1.297)	182	1691728			65.13-	125.13	99.09

155	Hexachlorobutadiene					CAS #:	87-68-3		
19.661	19.661	(1.302)	225	1416907	41.0683	41.068	80.00-	120.00	100.00
19.661	19.661	(1.302)	223	909647			29.70-	89.70	64.20

124	Propylbenzene					CAS #:	103-65-1		
16.924	16.924	(1.121)	91	5651398	50.5016	50.502	80.00-	120.00	100.00
16.924	16.924	(1.121)	120	1193922			0.00-	50.53	21.13
16.924	16.924	(1.121)	105	199897			0.00-	33.52	3.54

119	Cumene					CAS #:	98-82-8		
16.426	16.426	(1.088)	105	4346404	50.5012	50.501	80.00-	120.00	100.00
16.426	16.426	(1.088)	120	1127154			0.00-	55.50	25.93
16.426	16.426	(1.088)	51	974611			0.00-	50.84	22.42

156	Naphthalene					CAS #:	91-20-3		
19.744	19.744	(1.308)	128	4747848	38.4160	38.416	80.00-	120.00	100.00
19.744	19.744	(1.308)	127	612458			0.00-	42.90	12.90

30	Isopentane					CAS #:	78-78-4		
3.514	3.514	(0.429)	43	3633174	48.8965	48.896	80.00-	120.00	100.00
3.514	3.514	(0.429)	57	2156441			30.33-	90.33	59.35
3.514	3.514	(0.429)	72	171680			0.00-	34.69	4.73

21	Butane					CAS #:	106-97-8		
2.740	2.767	(0.335)	58	601819	49.6493	49.649	80.00-	120.00	100.00
2.740	2.740	(0.335)	43	4717176			773.30-	833.30	783.82

96	Methyl Cyclohexane					CAS #:	108-87-2		
10.703	10.703	(1.063)	83	1670135	48.4902	48.490	80.00-	120.00	100.00
10.703	10.703	(1.063)	98	855898			20.58-	80.58	51.25
10.703	10.703	(1.063)	55	2526188			125.23-	185.23	151.26

Report Date: 30-May-2007 15:41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052921.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv -> 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	328581	4.72
79 1,4-Difluorobenze	1277249	766349	1788149	1294035	1.31
108 Chlorobenzene-d5	1008759	605255	1412263	1016588	0.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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.

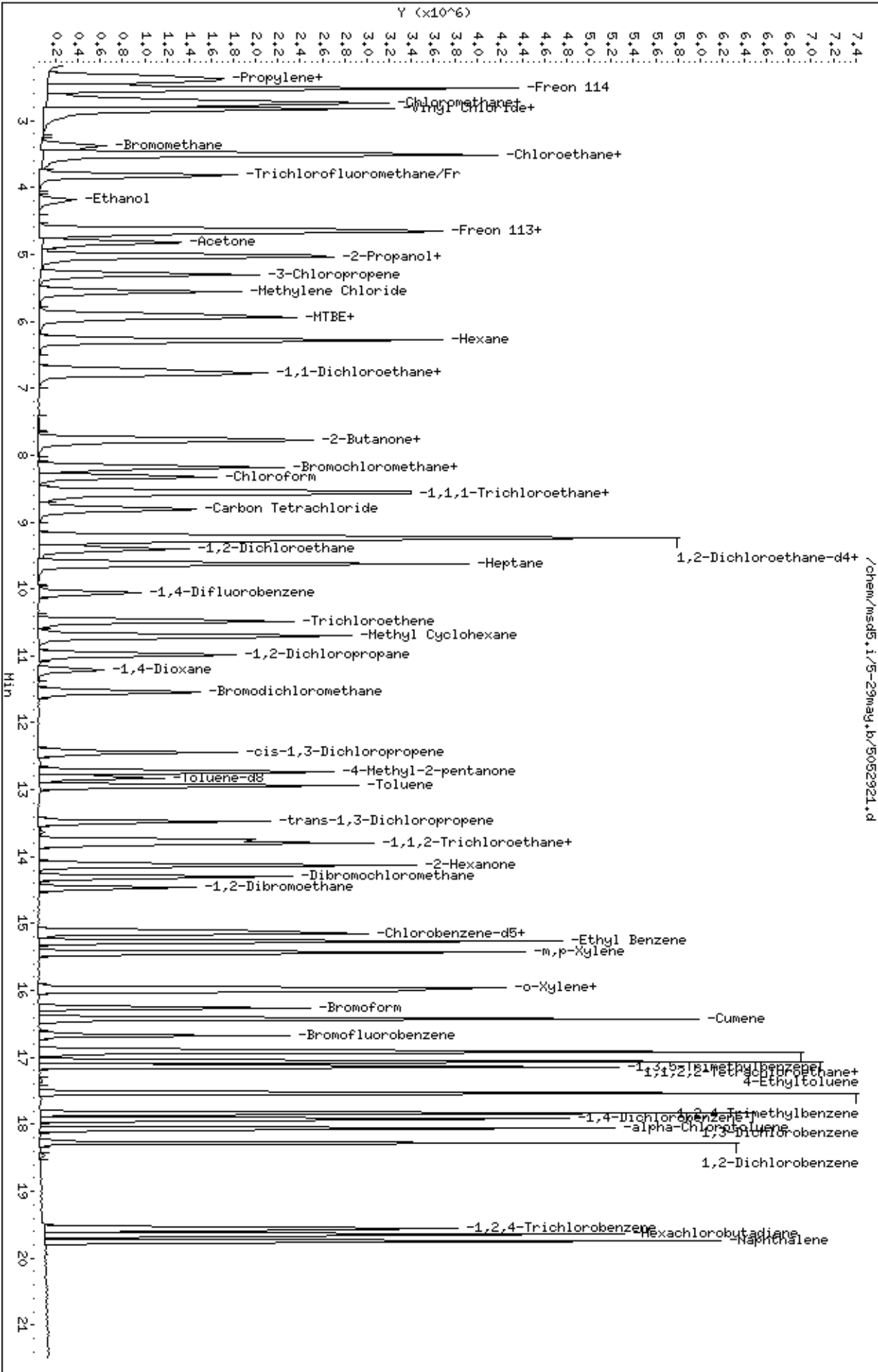
RECOVERY REPORT

Client Name: Client SDG: 5-29may
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: ICAL Client Smp ID: LCS
 Level: LOW Operator: JG
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 2926Spectra.spk Quant Type: ISTD
 Sublist File: AT04+ENSR.sub
 Method File: /chem/msd5.i/5-29may.b/t14q529a.m
 Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
2 Dichlorodifluorome	50.000	48.765	97.53	70-130
3 Freon 114	50.000	50.017	100.03	70-130
4 Chloromethane	50.000	47.224	94.45	70-130
5 Vinyl Chloride	50.000	53.634	107.27	70-130
6 1,3-Butadiene	50.000	51.722	103.44	60-140
7 Bromomethane	50.000	52.113	104.23	70-130
8 Chloroethane	50.000	51.539	103.08	70-130
9 Trichlorofluoromet	50.000	50.739	101.48	70-130
13 Ethanol	50.000	55.551	111.10	60-140
19 Freon 113	50.000	56.984	113.97	70-130
20 1,1-Dichloroethene	50.000	54.998	110.00	70-130
25 Carbon Disulfide	50.000	50.371	100.74	60-140
22 Acetone	50.000	48.953	97.91	60-140
26 2-Propanol	50.000	47.863	95.73	60-140
28 3-Chloropropene	50.000	48.340	96.68	60-140
29 Methylene Chloride	50.000	52.937	105.87	70-130
31 MTBE	50.000	46.463	92.93	60-140
32 trans-1,2-Dichloro	50.000	48.055	96.11	60-140
38 Hexane	50.000	47.954	95.91	60-140
43 1,1-Dichloroethane	50.000	51.020	102.04	70-130
52 cis-1,2-Dichloroet	50.000	49.163	98.33	70-130
53 2-Butanone	50.000	49.365	98.73	60-140
56 Tetrahydrofuran	50.000	45.325	90.65	60-140
58 Chloroform	50.000	50.184	100.37	70-130
61 Cyclohexane	50.000	48.778	97.56	60-140
62 1,1,1-Trichloroeth	50.000	48.824	97.65	70-130
63 Vinyl Acetate	50.000	51.440	102.88	60-140
65 Carbon Tetrachlori	50.000	49.218	98.44	70-130
68 2,2,4-Trimethylpen	50.000	48.703	97.41	60-140
69 Benzene	50.000	48.108	96.22	70-130
72 1,2-Dichloroethane	50.000	51.289	102.58	70-130
75 Heptane	50.000	43.871	87.74	60-140
80 Trichloroethene	50.000	48.893	97.79	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
82 1,2-Dichloropropan	50.000	48.543	97.09	70-130
84 1,4-Dioxane	50.000	45.712	91.42	60-140
85 Bromodichlorometha	50.000	51.296	102.59	60-140
90 cis-1,3-Dichloropr	50.000	49.824	99.65	70-130
91 4-Methyl-2-pentano	50.000	50.652	101.30	60-140
99 Toluene	50.000	50.898	101.80	70-130
100 trans-1,3-Dichloro	50.000	50.747	101.49	70-130
101 1,1,2-Trichloroeth	50.000	48.974	97.95	70-130
102 Tetrachloroethene	50.000	48.494	96.99	70-130
103 2-Hexanone	50.000	47.198	94.40	60-140
105 Dibromochlorometha	50.000	49.731	99.46	60-140
106 1,2-Dibromoethane	50.000	47.517	95.03	70-130
109 Chlorobenzene	50.000	46.390	92.78	70-130
111 Ethyl Benzene	50.000	50.011	100.02	70-130
113 m,p-Xylene	50.000	46.987	93.97	70-130
114 o-Xylene	50.000	47.818	95.64	70-130
115 Styrene	50.000	52.036	104.07	70-130
118 Bromoform	50.000	51.928	103.86	60-140
119 Cumene	50.000	50.501	101.00	60-140
123 1,1,2,2-Tetrachlor	50.000	45.839	91.68	70-130
124 Propylbenzene	50.000	50.502	101.00	60-140
126 4-Ethyltoluene	50.000	50.448	100.90	60-140
128 1,3,5-Trimethylben	50.000	49.343	98.69	70-130
131 1,2,4-Trimethylben	50.000	49.216	98.43	70-130
138 1,3-Dichlorobenzen	50.000	44.531	89.06	70-130
141 1,4-Dichlorobenzen	50.000	46.664	93.33	70-130
143 alpha-Chlorotoluen	50.000	52.531	105.06	70-130
146 1,2-Dichlorobenzen	50.000	44.035	88.07	70-130
154 1,2,4-Trichloroben	50.000	41.005	82.01	70-130
155 Hexachlorobutadien	50.000	41.068	82.14	70-130
1 Propylene	50.000	50.959	101.92	70-130
156 Naphthalene	50.000	38.416	76.83	60-140
21 Butane	50.000	49.649	99.30	70-130
30 Isopentane	50.000	48.896	97.79	70-130
96 Methyl Cyclohexane	50.000	48.490	96.98	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	24.045	96.18	70-130
\$ 97 Toluene-d8	25.000	25.209	100.84	70-130
\$ 122 Bromofluorobenzene	25.000	24.744	98.98	70-130



Report Date: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052911.d
 Lab Smp Id: ICAL Client Smp ID: Level 1
 Inj Date : 29-MAY-2007 15:42
 Operator : JG Inst ID: msd5.i
 Smp Info : 0.3mL #1487-288
 Misc Info : 200ppbv-0.3ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 15:42 Cal File: 5052911.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								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

* 57	Bromochloromethane					CAS #:	74-97-5	
8.187	8.187	(1.000)	130	321276	25.0000		70.00- 130.00	100.00
8.187	8.187	(1.000)	128	254210			50.27- 110.27	79.13
8.187	8.187	(1.000)	49	965206			281.04- 341.04	300.43

* 79	1,4-Difluorobenzene					CAS #:	540-36-3	
10.067	10.067	(1.000)	114	1271328	25.0000		70.00- 130.00	100.00
10.067	10.067	(1.000)	88	230292			0.00- 48.57	18.11

* 108	Chlorobenzene-d5					CAS #:	3114-55-4	
15.099	15.099	(1.000)	117	1006780	25.0000		70.00- 130.00	100.00
15.099	15.099	(1.000)	82	644412			0.00- 30.00	64.01

\$ 71	1,2-Dichloroethane-d4					CAS #:	17060-07-0	
9.265	9.265	(1.132)	65	625671	25.0000	24.294	70.00- 130.00	100.00
9.265	9.265	(1.132)	67	271934			0.00- 30.00	43.46

\$ 97	Toluene-d8					CAS #:	2037-26-5	
12.832	12.832	(1.275)	98	1162897	25.0000	25.130	70.00- 130.00	100.00
12.832	12.832	(1.275)	70	128701			0.00- 30.00	11.07

AMOUNTS

CAL-AMT ON-COL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
== =====

\$ 97 Toluene-d8 (continued)

12.832 12.832 (1.275) 100 733968 0.00- 30.00 63.12

\$ 122 Bromofluorobenzene CAS #: 460-00-4

16.675 16.675 (1.104) 174 628671 25.0000 24.853 70.00- 130.00 100.00

16.675 16.675 (1.104) 95 995730 131.53- 191.53 158.39

16.675 16.675 (1.104) 176 574568 65.40- 125.40 91.39

58 Chloroform CAS #: 67-66-3

8.325 8.325 (1.017) 83 10149 0.30000 0.2590 70.00- 130.00 100.00

8.325 8.325 (1.017) 85 7818 33.68- 93.68 77.03

69 Benzene CAS #: 71-43-2

9.237 9.237 (0.918) 78 17129 0.30000 0.3001 70.00- 130.00 100.00

9.237 9.237 (0.918) 77 4953 0.00- 30.00 28.92

115 Styrene CAS #: 100-42-5

16.012 16.012 (1.060) 104 9083 0.30000 0.2228 70.00- 130.00 100.00

16.012 16.012 (1.060) 78 7332 31.61- 91.61 80.72

119 Cumene CAS #: 98-82-8

16.426 16.426 (1.088) 105 19541 0.30000 0.2293 70.00- 130.00 100.00

16.426 16.426 (1.088) 120 5426 0.00- 30.00 27.77

16.426 16.426 (1.088) 51 7370 0.00- 30.00 37.72

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052911.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-0.3ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	321276	2.39
79 1,4-Difluorobenze	1277249	766349	1788149	1271328	-0.46
108 Chlorobenzene-d5	1008759	605255	1412263	1006780	-0.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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/msd5.1/5-29may.b/5052911.d

Date: 29-MAY-2007 15:42

Client ID: Level 1

Sample Info: 0.3mL #1487-288

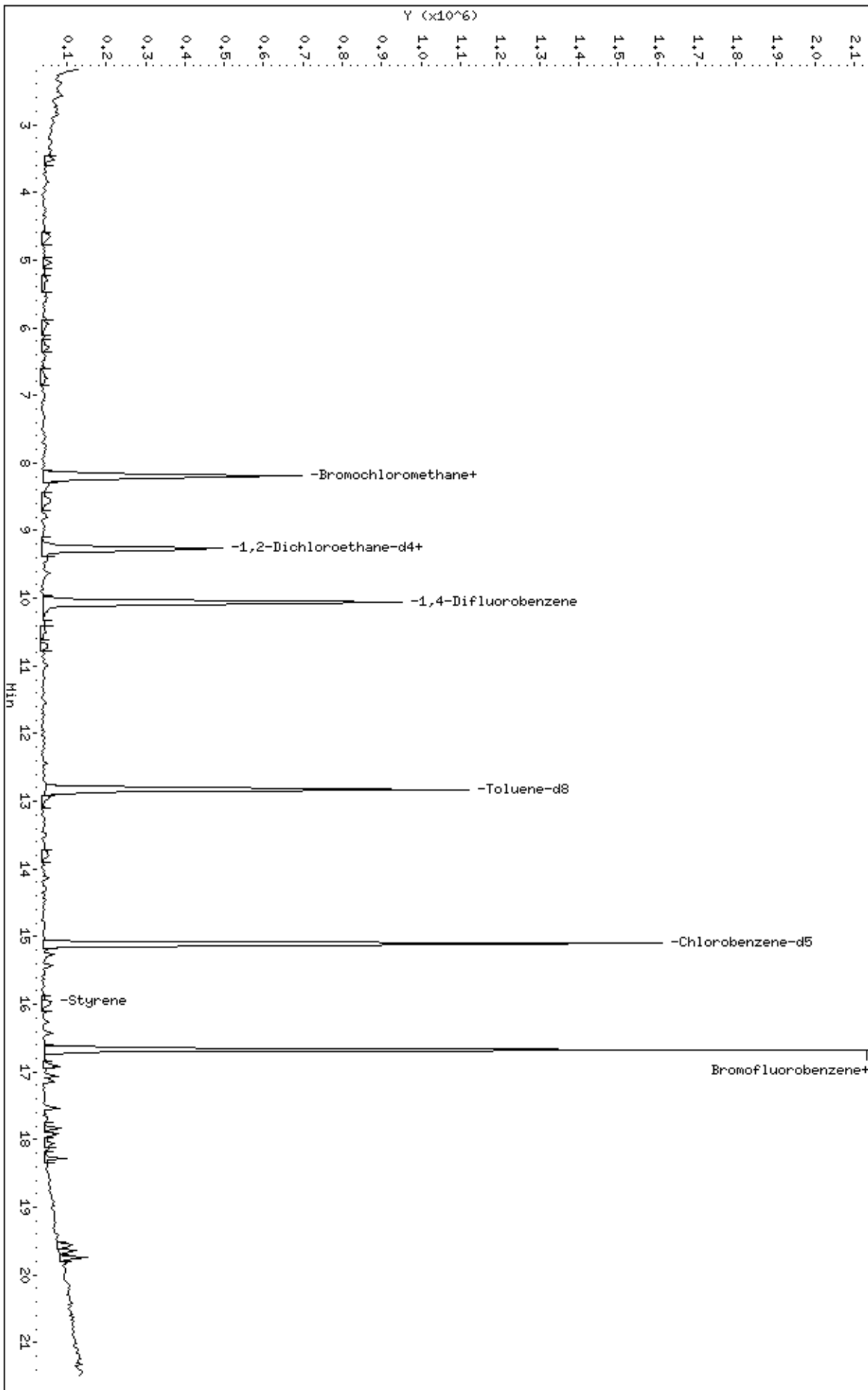
Column phase: RTX-624

Instrument: msd5.1

Operator: JG

Column diameter: 0.53

/chem/msd5.1/5-29may.b/5052911.d



Report Date: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052912.d
 Lab Smp Id: ICAL Client Smp ID: Level 2
 Inj Date : 29-MAY-2007 16:10
 Operator : JG Inst ID: msd5.i
 Smp Info : 0.5mL #1487-288
 Misc Info : 200ppbv-0.5ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 16:10 Cal File: 5052912.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									
RT	EXP RT	(REL RT)	MASS	CAL-AMT	ON-COL	RESPONSE (PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 57 Bromochloromethane CAS #: 74-97-5									
8.187	8.187	(1.000)	130	320227	25.0000			70.00- 130.00	100.00
8.187	8.187	(1.000)	128	242343				50.27- 110.27	75.68
8.187	8.187	(1.000)	49	989401				281.04- 341.04	308.97

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1280514	25.0000			70.00- 130.00	100.00
10.067	10.067	(1.000)	88	225538				0.00- 48.57	17.61

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	1002266	25.0000			70.00- 130.00	100.00
15.099	15.099	(1.000)	82	636566				0.00- 30.00	63.51

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.132)	65	608358	25.0000	23.699		70.00- 130.00	100.00
9.265	9.265	(1.132)	67	275344				0.00- 30.00	45.26

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1131826	25.0000	24.283		70.00- 130.00	100.00
12.832	12.832	(1.275)	70	133637				0.00- 30.00	11.81

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 97 Toluene-d8 (continued)									
12.832	12.832	(1.275)	100	718153			0.00- 30.00	63.45	

\$ 122 Bromofluorobenzene CAS #: 460-00-4									
16.675	16.675	(1.104)	174	608252	25.0000	24.154	70.00- 130.00	100.00	
16.675	16.675	(1.104)	95	993460			131.53- 191.53	163.33	
16.675	16.675	(1.104)	176	565354			65.40- 125.40	92.95	

2 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
2.408	2.408	(0.294)	85	23887	0.50000	0.4204	70.00- 130.00	100.00(a)	
2.436	2.436	(0.298)	87	10725			0.00- 30.00	44.90	

3 Freon 114 CAS #: 76-14-2									
2.574	2.574	(0.314)	135	23575	0.50000	0.4339	70.00- 130.00	100.00(a)	
2.574	2.574	(0.314)	137	6815			0.80- 60.80	28.91	

5 Vinyl Chloride CAS #: 75-01-4									
2.850	2.850	(0.348)	62	16097	0.50000	0.3859	70.00- 130.00	100.00(a)	
2.823	2.823	(0.345)	64	2335			0.00- 30.00	14.51	

6 1,3-Butadiene CAS #: 106-99-0									
2.850	2.850	(0.348)	54	15909	0.50000	0.3842	70.00- 130.00	100.00(a)	
2.823	2.823	(0.345)	39	19757			0.00- 30.00	124.19	

7 Bromomethane CAS #: 74-83-9									
3.376	3.376	(0.412)	94	10699	0.50000	0.4318	70.00- 130.00	100.00(a)	
3.376	3.376	(0.412)	96	11343			64.95- 124.95	106.02	

8 Chloroethane CAS #: 75-00-3									
3.542	3.542	(0.433)	64	10708	0.50000	0.4841	70.00- 130.00	100.00(aM)	
3.514	3.514	(0.429)	49	2538			0.00- 30.00	23.70	
3.542	3.542	(0.433)	66	2672			0.00- 30.00	24.95	

9 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
3.846	3.846	(0.470)	101	21790	0.50000	0.3805	70.00- 130.00	100.00(a)	
3.846	3.846	(0.470)	103	14799			35.72- 95.72	67.92	

19 Freon 113 CAS #: 76-13-1									
4.648	4.648	(0.568)	151	15909	0.50000	0.4537	70.00- 130.00	100.00(a)	
4.675	4.675	(0.571)	153	9623			32.16- 92.16	60.49	
4.648	4.648	(0.568)	101	17694			100.00- 160.00	111.22	

20 1,1-Dichloroethene CAS #: 75-35-4									
4.675	4.675	(0.571)	61	22963	0.50000	0.4200	70.00- 130.00	100.00(a)	
4.703	4.703	(0.574)	96	13121			19.13- 79.13	57.14	
4.675	4.675	(0.571)	98	8419			0.28- 60.28	36.66	

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

25	Carbon Disulfide					CAS #: 75-15-0			
5.035	5.035	(0.615)	76	31324	0.50000	0.4161	70.00- 130.00	100.00(a)	

29	Methylene Chloride					CAS #: 75-09-2			
5.560	5.560	(0.679)	49	25089	0.50000	0.4892	70.00- 130.00	100.00(a)	
5.560	5.560	(0.679)	84	12478			9.87- 69.87	49.73	
5.588	5.588	(0.683)	51	11156			0.00- 30.00	44.47	

31	MTBE					CAS #: 1634-04-4			
5.892	5.892	(0.720)	73	17321	0.50000	0.4329	70.00- 130.00	100.00(a)	
5.892	5.892	(0.720)	57	10505			5.77- 65.77	60.65	
5.892	5.892	(0.720)	41	11670			0.00- 30.00	67.37	

32	trans-1,2-Dichloroethene					CAS #: 156-60-5			
5.947	5.947	(0.726)	96	11955	0.50000	0.4385	70.00- 130.00	100.00(a)	
5.947	5.947	(0.726)	61	22533			164.17- 224.17	188.48	
5.947	5.947	(0.726)	98	8954			0.00- 30.00	74.90	

38	Hexane					CAS #: 110-54-3			
6.279	6.279	(0.767)	57	30616	0.50000	0.4466	70.00- 130.00	100.00(a)	
6.307	6.307	(0.770)	43	19399			0.00- 30.00	63.36	
6.279	6.279	(0.767)	86	2664			0.00- 30.00	8.70	

43	1,1-Dichloroethane					CAS #: 75-34-3			
6.749	6.749	(0.824)	63	21051	0.50000	0.3860	70.00- 130.00	100.00(a)	
6.721	6.721	(0.821)	65	8949			0.00- 59.00	42.51	

53	2-Butanone					CAS #: 78-93-3			
7.827	7.827	(0.956)	72	4602	0.50000	0.4368	70.00- 130.00	100.00(a)	
7.827	7.827	(0.956)	43	30590			796.36- 856.36	664.71	
7.800	7.800	(0.953)	57	3193			0.00- 30.00	69.38	

52	cis-1,2-Dichloroethene					CAS #: 156-59-2			
7.772	7.772	(0.949)	61	19035	0.50000	0.4494	70.00- 130.00	100.00(a)	
7.772	7.772	(0.949)	96	8942			25.31- 85.31	46.98	
7.744	7.744	(0.946)	98	6446			2.88- 62.88	33.86	

56	Tetrahydrofuran					CAS #: 109-99-9			
8.187	8.187	(1.000)	42	25795	0.50000	0.4721	70.00- 130.00	100.00(a)	
8.187	8.187	(1.000)	71	5366			0.00- 48.47	20.80	
8.187	8.187	(1.000)	72	6815			0.00- 30.00	26.42	

58	Chloroform					CAS #: 67-66-3			
8.325	8.325	(1.017)	83	18550	0.50000	0.4748	70.00- 130.00	100.00(a)	
8.325	8.325	(1.017)	85	13138			33.68- 93.68	70.82	

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

62	1,1,1-Trichloroethane					CAS #:	71-55-6			
8.574	8.574	(1.047)	97	18607	0.50000	0.4373	70.00-	130.00	100.00(a)	
8.574	8.574	(1.047)	99	9899			32.24-	92.24	53.20	

61	Cyclohexane					CAS #:	110-82-7			
8.546	8.546	(1.044)	84	10997	0.50000	0.3806	70.00-	130.00	100.00(a)	
8.546	8.546	(1.044)	56	25188			177.94-	237.94	229.04	
8.546	8.546	(1.044)	41	17561			93.55-	153.55	159.69	

65	Carbon Tetrachloride					CAS #:	56-23-5			
8.823	8.823	(1.078)	119	15647	0.50000	0.4221	70.00-	130.00	100.00(a)	
8.795	8.795	(1.074)	117	13079			71.97-	131.97	83.59	

68	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.237	9.237	(1.128)	57	65681	0.50000	0.4032	70.00-	130.00	100.00(a)	
9.237	9.237	(1.128)	56	24350			0.00-	30.00	37.07	
9.237	9.237	(1.128)	41	18060			0.00-	30.00	27.50	

69	Benzene					CAS #:	71-43-2			
9.237	9.237	(0.918)	78	26710	0.50000	0.4646	70.00-	130.00	100.00(a)	
9.237	9.237	(0.918)	77	6178			0.00-	30.00	23.13	

72	1,2-Dichloroethane					CAS #:	107-06-2			
9.403	9.403	(0.934)	62	16969	0.50000	0.4339	70.00-	130.00	100.00(a)	
9.431	9.431	(0.937)	64	7803			0.00-	30.00	45.98	

75	Heptane					CAS #:	142-82-5			
9.625	9.625	(0.956)	100	4985	0.50000	0.6380	70.00-	130.00	100.00	
9.625	9.625	(0.956)	43	26220			0.00-	30.00	525.98	
9.625	9.625	(0.956)	71	8530			0.00-	30.00	171.11	

80	Trichloroethene					CAS #:	79-01-6			
10.482	10.482	(1.041)	95	9776	0.50000	0.4056	70.00-	130.00	100.00(a)	
10.482	10.482	(1.041)	130	10501			65.35-	125.35	107.42	
10.509	10.509	(1.044)	97	7241			35.05-	95.05	74.07	

82	1,2-Dichloropropane					CAS #:	78-87-5			
10.979	10.979	(1.091)	63	10942	0.50000	0.4369	70.00-	130.00	100.00(a)	
10.979	10.979	(1.091)	62	10300			43.36-	103.36	94.13	
10.979	10.979	(1.091)	41	12824			62.33-	122.33	117.20	

85	Bromodichloromethane					CAS #:	75-27-4			
11.532	11.532	(1.146)	83	13983	0.50000	0.3927	70.00-	130.00	100.00(a)	
11.532	11.532	(1.146)	85	9417			33.28-	93.28	67.35	

90	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.445	12.445	(1.236)	75	10181	0.50000	0.3963	70.00-	130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 cis-1,3-Dichloropropene (continued)									
12.445	12.445	(1.236)	77	4724			2.34- 62.34	46.40	
12.445	12.445	(1.236)	39	13321			80.54- 140.54	130.84	

91 4-Methyl-2-pentanone CAS #: 108-10-1									
12.749	12.749	(1.266)	58	7913	0.50000	0.3212	70.00- 130.00	100.00(a)	
12.721	12.721	(1.264)	43	40882			0.00- 30.00	516.64	
12.721	12.721	(1.264)	85	3216			0.00- 30.00	40.64	

99 Toluene CAS #: 108-88-3									
12.943	12.943	(1.286)	91	23853	0.50000	0.4320	70.00- 130.00	100.00(a)	
12.943	12.943	(1.286)	92	16171			28.86- 88.86	67.79	

100 trans-1,3-Dichloropropene CAS #: 10061-02-6									
13.468	13.468	(0.892)	75	10192	0.50000	0.3619	70.00- 130.00	100.00(a)	
13.468	13.468	(0.892)	77	3040			1.06- 61.06	29.83	
13.468	13.468	(0.892)	39	12412			66.05- 126.05	121.78	

101 1,1,2-Trichloroethane CAS #: 79-00-5									
13.772	13.772	(0.912)	97	7570	0.50000	0.3982	70.00- 130.00	100.00(a)	
13.772	13.772	(0.912)	99	5988			31.72- 91.72	79.10	
13.744	13.744	(0.910)	83	6694			52.19- 112.19	88.43	

102 Tetrachloroethene CAS #: 127-18-4									
13.800	13.800	(0.914)	166	12288	0.50000	0.5168	70.00- 130.00	100.00	
13.800	13.800	(0.914)	129	12759			54.09- 114.09	103.83	
13.800	13.800	(0.914)	131	10780			52.34- 112.34	87.73	

105 Dibromochloromethane CAS #: 124-48-1									
14.297	14.297	(0.947)	129	13708	0.50000	0.4429	70.00- 130.00	100.00(a)	
14.297	14.297	(0.947)	127	8932			0.00- 30.00	65.16	

106 1,2-Dibromoethane CAS #: 106-93-4									
14.463	14.463	(0.958)	107	13014	0.50000	0.4478	70.00- 130.00	100.00(a)	
14.463	14.463	(0.958)	109	10566			62.51- 122.51	81.19	

109 Chlorobenzene CAS #: 108-90-7									
15.154	15.154	(1.004)	112	23229	0.50000	0.5061	70.00- 130.00	100.00	
15.154	15.154	(1.004)	114	7938			2.97- 62.97	34.17	
15.099	15.099	(1.000)	77	21831			34.70- 94.70	93.98	

111 Ethyl Benzene CAS #: 100-41-4									
15.265	15.265	(1.011)	106	7812	0.50000	0.3463	70.00- 130.00	100.00(a)	
15.265	15.265	(1.011)	91	34822			0.00- 30.00	445.75	

113 m,p-Xylene CAS #: 108-38-3									
15.431	15.431	(1.022)	106	12493	0.50000	0.4254	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
113 m,p-Xylene (continued)									
15.431	15.431	(1.022)	91	28543			0.00- 30.00	228.47	

114 o-Xylene CAS #: 95-47-6									
15.956	15.956	(1.057)	106	9992	0.50000	0.3598	70.00- 130.00	100.00(a)	
15.956	15.956	(1.057)	91	27995			210.36- 270.36	280.17	

115 Styrene CAS #: 100-42-5									
16.012	16.012	(1.060)	104	16015	0.50000	0.3945	70.00- 130.00	100.00(a)	
16.012	16.012	(1.060)	78	11749			31.61- 91.61	73.36	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	9708	0.50000	0.3660	70.00- 130.00	100.00(a)	
16.260	16.260	(1.077)	171	6307			21.89- 81.89	64.97	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	19546	0.50000	0.4506	70.00- 130.00	100.00(a)	
16.896	16.896	(1.119)	85	10994			35.56- 95.56	56.25	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	38045	0.50000	0.3990	70.00- 130.00	100.00(a)	
17.062	17.062	(1.130)	120	10793			0.00- 58.00	28.37	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	31915	0.50000	0.3992	70.00- 130.00	100.00(a)	
17.145	17.145	(1.135)	120	16327			0.00- 30.00	51.16	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	33871	0.50000	0.3946	70.00- 130.00	100.00(a)	
17.532	17.532	(1.161)	120	15171			13.06- 73.06	44.79	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	26253	0.50000	0.4666	70.00- 130.00	100.00(a)	
17.836	17.836	(1.181)	148	12691			0.00- 30.00	48.34	
17.836	17.836	(1.181)	111	11047			0.00- 30.00	42.08	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	18234	0.50000	0.4098	70.00- 130.00	100.00(a)	
17.919	17.919	(1.187)	148	13738			0.00- 30.00	75.34	
17.919	17.919	(1.187)	111	11777			0.00- 30.00	64.59	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.058	18.058	(1.196)	91	21416	0.50000	0.2885	70.00- 130.00	100.00(a)	
18.058	18.058	(1.196)	126	5259			0.00- 30.00	24.56	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	29578	0.50000	0.5067	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
146 1,2-Dichlorobenzene (continued)									
18.279	18.279	(1.211)	148	14247			33.74- 93.74	48.17	
18.279	18.279	(1.211)	111	11347			15.34- 75.34	38.36	

124 Propylbenzene					CAS #: 103-65-1				
16.924	16.924	(1.121)	91	45410	0.50000	0.4116	70.00- 130.00	100.00(a)	
16.924	16.924	(1.121)	120	9673			0.00- 30.00	21.30	
16.924	16.924	(1.121)	105	3079			0.00- 30.00	6.78	

119 Cumene					CAS #: 98-82-8				
16.426	16.426	(1.088)	105	36572	0.50000	0.4310	70.00- 130.00	100.00(a)	
16.426	16.426	(1.088)	120	7574			0.00- 30.00	20.71	
16.426	16.426	(1.088)	51	10237			0.00- 30.00	27.99	

96 Methyl Cyclohexane					CAS #: 108-87-2				
10.703	10.703	(1.063)	83	15269	0.50000	0.4480	70.00- 130.00	100.00(a)	
10.703	10.703	(1.063)	98	8344			0.00- 30.00	54.65	
10.703	10.703	(1.063)	55	20506			0.00- 30.00	134.30	

QC Flag Legend

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

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052912.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 2

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-0.5ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	320227	2.06
79 1,4-Difluorobenze	1277249	766349	1788149	1280514	0.26
108 Chlorobenzene-d5	1008759	605255	1412263	1002266	-0.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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/msd5.1/5-29maj.b/5052912.d

Date: 29-May-2007 16:10

Client ID: Level 2

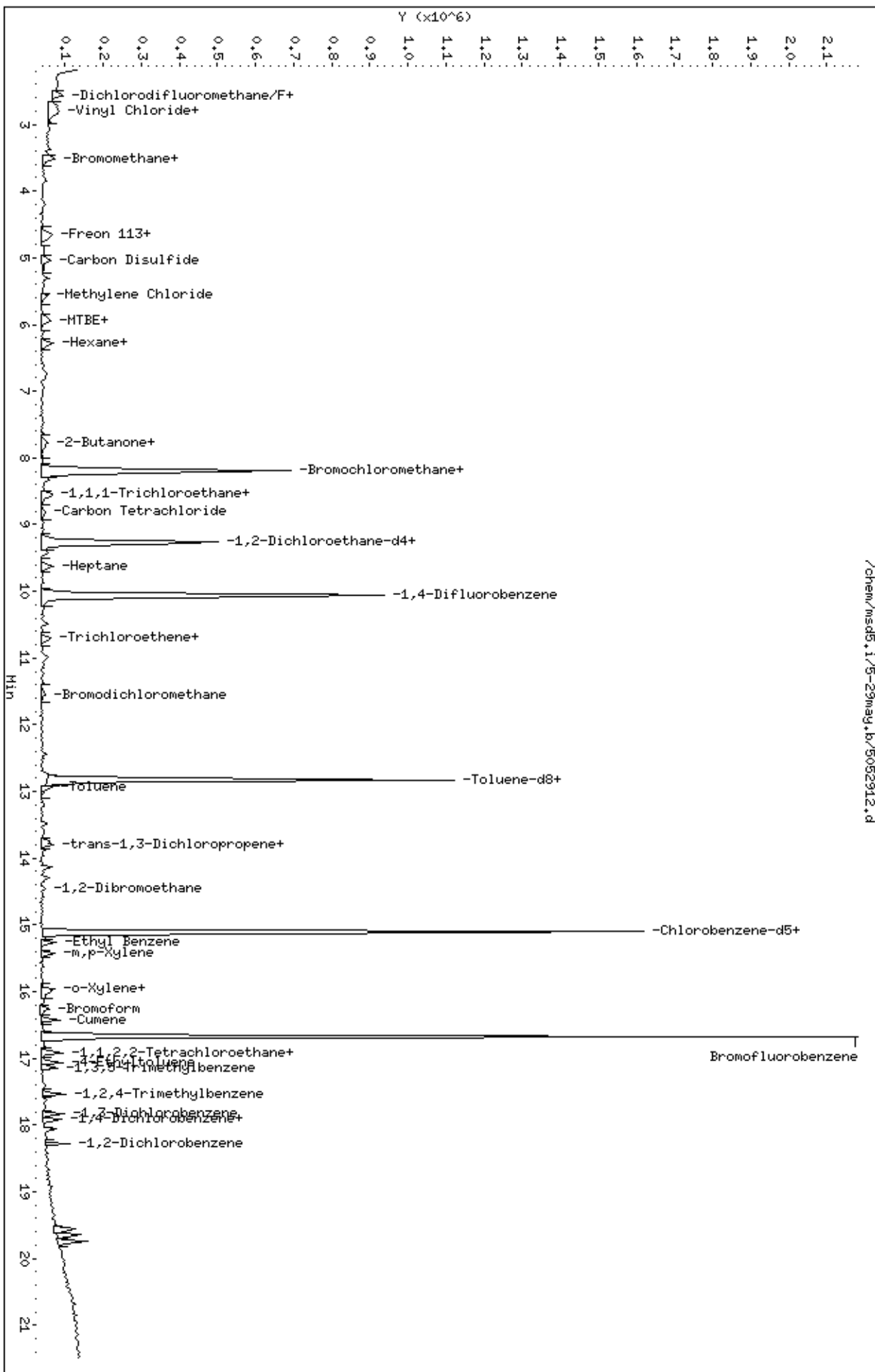
Sample Info: 0.5mL #1487-288

Column phase: RTX-624

Instrument: msd5.1

Operator: JG

Column diameter: 0.53



Report Date: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052920.d
 Lab Smp Id: ICAL Client Smp ID: Level 3
 Inj Date : 29-MAY-2007 20:44
 Operator : JG Inst ID: msd5.i
 Smp Info : 2.0mL #1487-288
 Misc Info : 200ppbv-2.0ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 57 Bromochloromethane CAS #: 74-97-5									
8.187	8.187	(1.000)	130	316096	25.0000			70.00- 130.00	100.00
8.187	8.187	(1.000)	128	247135				50.32- 110.32	78.18
8.187	8.187	(1.000)	49	960997				291.93- 351.93	304.02

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1251763	25.0000			70.00- 130.00	100.00
10.067	10.067	(1.000)	88	223571				0.00- 47.76	17.86

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	961284	25.0000			70.00- 130.00	100.00
15.099	15.099	(1.000)	82	600538				33.54- 93.54	62.47

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.132)	65	617065	25.0000	24.352		70.00- 130.00	100.00
9.265	9.265	(1.132)	67	276389				25.98- 85.98	44.79

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1134629	25.0000	24.903		70.00- 130.00	100.00
12.832	12.832	(1.275)	70	126127				0.00- 41.05	11.12

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 97 Toluene-d8 (continued)									
12.832	12.832	(1.275)	100	735073			36.04- 96.04	64.79	

\$ 122 Bromofluorobenzene									
						CAS #: 460-00-4			
16.675	16.675	(1.104)	174	596682	25.0000	24.705	70.00- 130.00	100.00	
16.675	16.675	(1.104)	95	983772			139.49- 199.49	164.87	
16.675	16.675	(1.104)	176	580470			69.76- 129.76	97.28	

1 Propylene									
						CAS #: 115-07-1			
2.353	2.353	(0.287)	41	103421	2.00000	2.453	70.00- 130.00	100.00	
2.353	2.353	(0.287)	42	71432			36.96- 96.96	69.07	
2.353	2.353	(0.287)	39	67277			37.69- 97.69	65.05	

2 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
2.408	2.408	(0.294)	85	148565	2.00000	2.649	70.00- 130.00	100.00	
2.408	2.408	(0.294)	87	48870			1.62- 61.62	32.89	

3 Freon 114									
						CAS #: 76-14-2			
2.574	2.574	(0.314)	135	133313	2.00000	2.485	70.00- 130.00	100.00	
2.574	2.574	(0.314)	137	39543			1.52- 61.52	29.66	

4 Chloromethane									
						CAS #: 74-87-3			
2.712	2.712	(0.331)	50	121601	2.00000	2.402	70.00- 130.00	100.00	
2.712	2.712	(0.331)	52	38677			0.00- 59.51	31.81	

5 Vinyl Chloride									
						CAS #: 75-01-4			
2.850	2.850	(0.348)	62	94018	2.00000	2.283	70.00- 130.00	100.00	
2.850	2.850	(0.348)	64	38541			0.00- 59.15	40.99	

6 1,3-Butadiene									
						CAS #: 106-99-0			
2.850	2.850	(0.348)	54	100057	2.00000	2.448	70.00- 130.00	100.00	
2.850	2.850	(0.348)	39	153795			92.11- 152.11	153.71	

7 Bromomethane									
						CAS #: 74-83-9			
3.376	3.376	(0.412)	94	59516	2.00000	2.433	70.00- 130.00	100.00	
3.376	3.376	(0.412)	96	54357			64.13- 124.13	91.33	

8 Chloroethane									
						CAS #: 75-00-3			
3.569	3.569	(0.436)	64	51793	2.00000	2.372	70.00- 130.00	100.00	
3.569	3.569	(0.436)	49	16946			1.83- 61.83	32.72	
3.541	3.541	(0.433)	66	14824			0.00- 57.39	28.62	

9 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
3.846	3.846	(0.470)	101	143306	2.00000	2.535	70.00- 130.00	100.00	
3.846	3.846	(0.470)	103	89746			34.13- 94.13	62.63	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
13 Ethanol						CAS #: 64-17-5			
4.205	4.205	(0.514)	45	40839	2.00000	2.355	70.00- 130.00	100.00	
4.205	4.205	(0.514)	43	12359			0.00- 49.45	30.26	
4.177	4.177	(0.510)	46	16246			11.95- 71.95	39.78	

19 Freon 113						CAS #: 76-13-1			
4.647	4.647	(0.568)	151	78812	2.00000	2.277	70.00- 130.00	100.00	
4.647	4.647	(0.568)	153	55161			33.02- 93.02	69.99	
4.647	4.647	(0.568)	101	110743			99.23- 159.23	140.52	

20 1,1-Dichloroethene						CAS #: 75-35-4			
4.675	4.675	(0.571)	61	133584	2.00000	2.475	70.00- 130.00	100.00	
4.675	4.675	(0.571)	96	65366			16.83- 76.83	48.93	
4.675	4.675	(0.571)	98	38535			0.21- 60.21	28.85	

22 Acetone						CAS #: 67-64-1			
4.841	4.841	(0.591)	58	47377	2.00000	2.353	70.00- 130.00	100.00	
4.841	4.841	(0.591)	43	157055			327.94- 387.94	331.50	

26 2-Propanol						CAS #: 67-63-0			
5.035	5.035	(0.615)	45	229326	2.00000	2.614	70.00- 130.00	100.00	
5.035	5.035	(0.615)	43	56842			0.00- 49.24	24.79	
5.062	5.062	(0.618)	59	7792			0.00- 33.25	3.40	

25 Carbon Disulfide						CAS #: 75-15-0			
5.035	5.035	(0.615)	76	182149	2.00000	2.451	70.00- 130.00	100.00	

28 3-Chloropropene						CAS #: 107-05-1			
5.311	5.311	(0.649)	76	28388	2.00000	2.261	70.00- 130.00	100.00	
5.311	5.311	(0.649)	41	145705			480.64- 540.64	513.26	

29 Methylene Chloride						CAS #: 75-09-2			
5.560	5.560	(0.679)	49	112605	2.00000	2.224	70.00- 130.00	100.00	
5.588	5.588	(0.683)	84	51772			11.41- 71.41	45.98	
5.588	5.588	(0.683)	51	41098			0.00- 59.58	36.50	

31 MTBE						CAS #: 1634-04-4			
5.892	5.892	(0.720)	73	63501	2.00000	1.608	70.00- 130.00	100.00	
5.892	5.892	(0.720)	57	25359			8.02- 68.02	39.93	
5.919	5.919	(0.723)	41	24865			10.34- 70.34	39.16	

32 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.947	5.947	(0.726)	96	65020	2.00000	2.416	70.00- 130.00	100.00	
5.947	5.947	(0.726)	61	125850			163.30- 223.30	193.56	
5.947	5.947	(0.726)	98	40670			32.40- 92.40	62.55	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	
38 Hexane						CAS #:	110-54-3			
6.279	6.279	(0.767)	57	166678	2.00000	2.463	70.00-	130.00	100.00	
6.279	6.279	(0.767)	43	114670			46.14-	106.14	68.80	
6.306	6.306	(0.770)	86	20312			0.00-	41.50	12.19	

43 1,1-Dichloroethane						CAS #:	75-34-3			
6.721	6.721	(0.821)	63	133534	2.00000	2.481	70.00-	130.00	100.00	
6.749	6.749	(0.824)	65	36083			0.00-	58.49	27.02	

53 2-Butanone						CAS #:	78-93-3			
7.800	7.800	(0.953)	72	24181	2.00000	2.325	70.00-	130.00	100.00	
7.800	7.800	(0.953)	43	203952			783.34-	843.34	843.44	
7.800	7.800	(0.953)	57	13069			23.20-	83.20	54.05	

52 cis-1,2-Dichloroethene						CAS #:	156-59-2			
7.772	7.772	(0.949)	61	100319	2.00000	2.400	70.00-	130.00	100.00	
7.772	7.772	(0.949)	96	56182			23.43-	83.43	56.00	
7.772	7.772	(0.949)	98	33485			4.05-	64.05	33.38	

56 Tetrahydrofuran						CAS #:	109-99-9			
8.187	8.187	(1.000)	42	145723	2.00000	2.702	70.00-	130.00	100.00	
8.187	8.187	(1.000)	71	25088			0.00-	48.28	17.22	
8.187	8.187	(1.000)	72	23711			0.00-	49.73	16.27	

58 Chloroform						CAS #:	67-66-3			
8.325	8.325	(1.017)	83	91231	2.00000	2.366	70.00-	130.00	100.00	
8.325	8.325	(1.017)	85	58564			35.36-	95.36	64.19	

62 1,1,1-Trichloroethane						CAS #:	71-55-6			
8.574	8.574	(1.047)	97	99793	2.00000	2.376	70.00-	130.00	100.00	
8.574	8.574	(1.047)	99	61069			34.25-	94.25	61.20	

61 Cyclohexane						CAS #:	110-82-7			
8.546	8.546	(1.044)	84	71745	2.00000	2.515	70.00-	130.00	100.00	
8.546	8.546	(1.044)	56	139115			178.96-	238.96	193.90	
8.546	8.546	(1.044)	41	86037			98.39-	158.39	119.92	

63 Vinyl Acetate						CAS #:	108-05-4			
6.804	6.804	(0.831)	86	12271	2.00000	1.957	70.00-	130.00	100.00(a)	
6.804	6.804	(0.831)	43	232470			1767.50-	1827.50	1894.47	
6.804	6.804	(0.831)	42	23469			104.58-	164.58	191.26	

65 Carbon Tetrachloride						CAS #:	56-23-5			
8.795	8.795	(1.074)	119	85692	2.00000	2.342	70.00-	130.00	100.00	
8.795	8.795	(1.074)	117	82137			75.27-	135.27	95.85	

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

68	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.237	9.237	(1.128)	57	400802	2.00000	2.492	70.00-	130.00	100.00	
9.237	9.237	(1.128)	56	134866			2.91-	62.91	33.65	
9.237	9.237	(1.128)	41	117674			0.00-	59.75	29.36	

69	Benzene					CAS #:	71-43-2			
9.237	9.237	(0.918)	78	139372	2.00000	2.480	70.00-	130.00	100.00	
9.237	9.237	(0.918)	77	32010			0.00-	53.04	22.97	

72	1,2-Dichloroethane					CAS #:	107-06-2			
9.403	9.403	(0.934)	62	89858	2.00000	2.350	70.00-	130.00	100.00	
9.403	9.403	(0.934)	64	25857			0.57-	60.57	28.78	

75	Heptane					CAS #:	142-82-5			
9.624	9.624	(0.956)	100	19383	2.00000	2.538	70.00-	130.00	100.00	
9.624	9.624	(0.956)	43	174769			1063.83-	1123.83	901.66	
9.624	9.624	(0.956)	71	48620			257.42-	317.42	250.84	

80	Trichloroethene					CAS #:	79-01-6			
10.482	10.482	(1.041)	95	64707	2.00000	2.746	70.00-	130.00	100.00	
10.482	10.482	(1.041)	130	52528			62.27-	122.27	81.18	
10.482	10.482	(1.041)	97	37969			34.70-	94.70	58.68	

82	1,2-Dichloropropane					CAS #:	78-87-5			
10.979	10.979	(1.091)	63	60004	2.00000	2.451	70.00-	130.00	100.00	
10.979	10.979	(1.091)	62	45498			45.60-	105.60	75.82	
10.979	10.979	(1.091)	41	59347			64.20-	124.20	98.91	

84	1,4-Dioxane					CAS #:	123-91-1			
11.228	11.228	(1.115)	88	31565	2.00000	2.505	70.00-	130.00	100.00	
11.228	11.228	(1.115)	58	38115			92.25-	152.25	120.75	
11.228	11.228	(1.115)	57	13457			11.42-	71.42	42.63	

85	Bromodichloromethane					CAS #:	75-27-4			
11.560	11.560	(1.148)	83	83087	2.00000	2.387	70.00-	130.00	100.00	
11.560	11.560	(1.148)	85	50655			33.44-	93.44	60.97	

90	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.445	12.445	(1.236)	75	59090	2.00000	2.353	70.00-	130.00	100.00	
12.445	12.445	(1.236)	77	19453			1.12-	61.12	32.92	
12.445	12.445	(1.236)	39	65513			75.09-	135.09	110.87	

91	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.749	12.749	(1.266)	58	64379	2.00000	2.673	70.00-	130.00	100.00	
12.749	12.749	(1.266)	43	224759			296.95-	356.95	349.12	
12.749	12.749	(1.266)	85	18016			0.00-	57.61	27.98	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
99 Toluene						CAS #:	108-88-3			
12.942	12.942	(1.286)	91	133032	2.00000	2.465	70.00-	130.00	100.00	
12.942	12.942	(1.286)	92	83331			29.10-	89.10	62.64	

100 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.495	13.495	(0.894)	75	65276	2.00000	2.417	70.00-	130.00	100.00	
13.468	13.468	(0.892)	77	17228			2.77-	62.77	26.39	
13.468	13.468	(0.892)	39	53935			66.19-	126.19	82.63	

101 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.744	13.744	(0.910)	97	48268	2.00000	2.647	70.00-	130.00	100.00	
13.744	13.744	(0.910)	99	28065			30.49-	90.49	58.14	
13.744	13.744	(0.910)	83	37994			51.49-	111.49	78.71	

102 Tetrachloroethene						CAS #:	127-18-4			
13.799	13.799	(0.914)	166	56794	2.00000	2.490	70.00-	130.00	100.00	
13.799	13.799	(0.914)	129	52595			53.95-	113.95	92.61	
13.799	13.799	(0.914)	131	45371			50.65-	110.65	79.89	

103 2-Hexanone						CAS #:	591-78-6			
14.131	14.131	(0.936)	58	81765	2.00000	2.398	70.00-	130.00	100.00	
14.131	14.131	(0.936)	43	191037			208.96-	268.96	233.64	
14.131	14.131	(0.936)	100	9310			0.00-	42.78	11.39	

105 Dibromochloromethane						CAS #:	124-48-1			
14.297	14.297	(0.947)	129	66977	2.00000	2.256	70.00-	130.00	100.00	
14.297	14.297	(0.947)	127	48056			48.77-	108.77	71.75	

106 1,2-Dibromoethane						CAS #:	106-93-4			
14.463	14.463	(0.958)	107	63438	2.00000	2.276	70.00-	130.00	100.00	
14.463	14.463	(0.958)	109	58926			63.89-	123.89	92.89	

109 Chlorobenzene						CAS #:	108-90-7			
15.154	15.154	(1.004)	112	111605	2.00000	2.535	70.00-	130.00	100.00	
15.154	15.154	(1.004)	114	35441			2.73-	62.73	31.76	
15.154	15.154	(1.004)	77	75096			34.32-	94.32	67.29	

111 Ethyl Benzene						CAS #:	100-41-4			
15.265	15.265	(1.011)	106	53424	2.00000	2.469	70.00-	130.00	100.00	
15.265	15.265	(1.011)	91	203990			322.22-	382.22	381.83	

113 m,p-Xylene						CAS #:	108-38-3			
15.431	15.431	(1.022)	106	71494	2.00000	2.538	70.00-	130.00	100.00	
15.431	15.431	(1.022)	91	168950			202.98-	262.98	236.31	

114 o-Xylene						CAS #:	95-47-6			
15.956	15.956	(1.057)	106	77030	2.00000	2.892	70.00-	130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	167364			213.72- 273.72	217.27	

115 Styrene									
16.011	16.011	(1.060)	104	98770	2.00000	2.537	70.00- 130.00	100.00	
16.011	16.011	(1.060)	78	56379			31.90- 91.90	57.08	

118 Bromoform									
16.260	16.260	(1.077)	173	61401	2.00000	2.413	70.00- 130.00	100.00	
16.260	16.260	(1.077)	171	29883			22.82- 82.82	48.67	

123 1,1,2,2-Tetrachloroethane									
16.896	16.896	(1.119)	83	113659	2.00000	2.732	70.00- 130.00	100.00	
16.896	16.896	(1.119)	85	76386			35.41- 95.41	67.21	

126 4-Ethyltoluene									
17.062	17.062	(1.130)	105	243984	2.00000	2.668	70.00- 130.00	100.00	
17.062	17.062	(1.130)	120	71225			0.00- 58.34	29.19	

128 1,3,5-Trimethylbenzene									
17.145	17.145	(1.135)	105	200401	2.00000	2.613	70.00- 130.00	100.00	
17.145	17.145	(1.135)	120	95719			16.58- 76.58	47.76	

131 1,2,4-Trimethylbenzene									
17.532	17.532	(1.161)	105	222185	2.00000	2.698	70.00- 130.00	100.00	
17.532	17.532	(1.161)	120	100228			12.83- 72.83	45.11	

138 1,3-Dichlorobenzene									
17.836	17.836	(1.181)	146	151992	2.00000	2.816	70.00- 130.00	100.00	
17.836	17.836	(1.181)	148	88732			33.12- 93.12	58.38	
17.836	17.836	(1.181)	111	61470			15.78- 75.78	40.44	

141 1,4-Dichlorobenzene									
17.919	17.919	(1.187)	146	112823	2.00000	2.644	70.00- 130.00	100.00	
17.919	17.919	(1.187)	148	70761			34.33- 94.33	62.72	
17.919	17.919	(1.187)	111	48344			18.49- 78.49	42.85	

143 alpha-Chlorotoluene									
18.057	18.057	(1.196)	91	159307	2.00000	2.237	70.00- 130.00	100.00	
18.057	18.057	(1.196)	126	27823			0.00- 47.06	17.47	

146 1,2-Dichlorobenzene									
18.279	18.279	(1.211)	146	163507	2.00000	2.921	70.00- 130.00	100.00	
18.279	18.279	(1.211)	148	94461			33.02- 93.02	57.77	
18.279	18.279	(1.211)	111	70285			16.95- 76.95	42.99	

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

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	118333	2.00000	3.006	70.00- 130.00	100.00	
19.578	19.578	(1.297)	182	112241			62.53- 122.53	94.85	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	107367	2.00000	3.291	70.00- 130.00	100.00	
19.661	19.661	(1.302)	223	65631			31.16- 91.16	61.13	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	293341	2.00000	2.772	70.00- 130.00	100.00	
16.924	16.924	(1.121)	120	57107			0.00- 50.53	19.47	
16.924	16.924	(1.121)	105	9907			0.00- 33.52	3.38	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	226883	2.00000	2.788	70.00- 130.00	100.00	
16.426	16.426	(1.088)	120	56435			0.00- 55.50	24.87	
16.426	16.426	(1.088)	51	42871			0.00- 50.84	18.90	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	363541	2.00000	3.111	70.00- 130.00	100.00	
19.744	19.744	(1.308)	127	44478			0.00- 42.90	12.23	

30	Isopentane					CAS #: 78-78-4			
3.514	3.514	(0.429)	43	173820	2.00000	2.432	70.00- 130.00	100.00	
3.514	3.514	(0.429)	57	107697			30.33- 90.33	61.96	
3.514	3.514	(0.429)	72	9046			0.00- 34.69	5.20	

21	Butane					CAS #: 106-97-8			
2.767	2.767	(0.338)	58	28307	2.00000	2.428	70.00- 130.00	100.00	
2.767	2.767	(0.338)	43	228460			773.30- 833.30	807.08	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	87634	2.00000	2.630	70.00- 130.00	100.00	
10.703	10.703	(1.063)	98	45970			20.58- 80.58	52.46	
10.703	10.703	(1.063)	55	116521			125.23- 185.23	132.96	

QC Flag Legend

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

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052920.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	316096	0.74
79 1,4-Difluorobenze	1277249	766349	1788149	1251763	-2.00
108 Chlorobenzene-d5	1008759	605255	1412263	961284	-4.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.

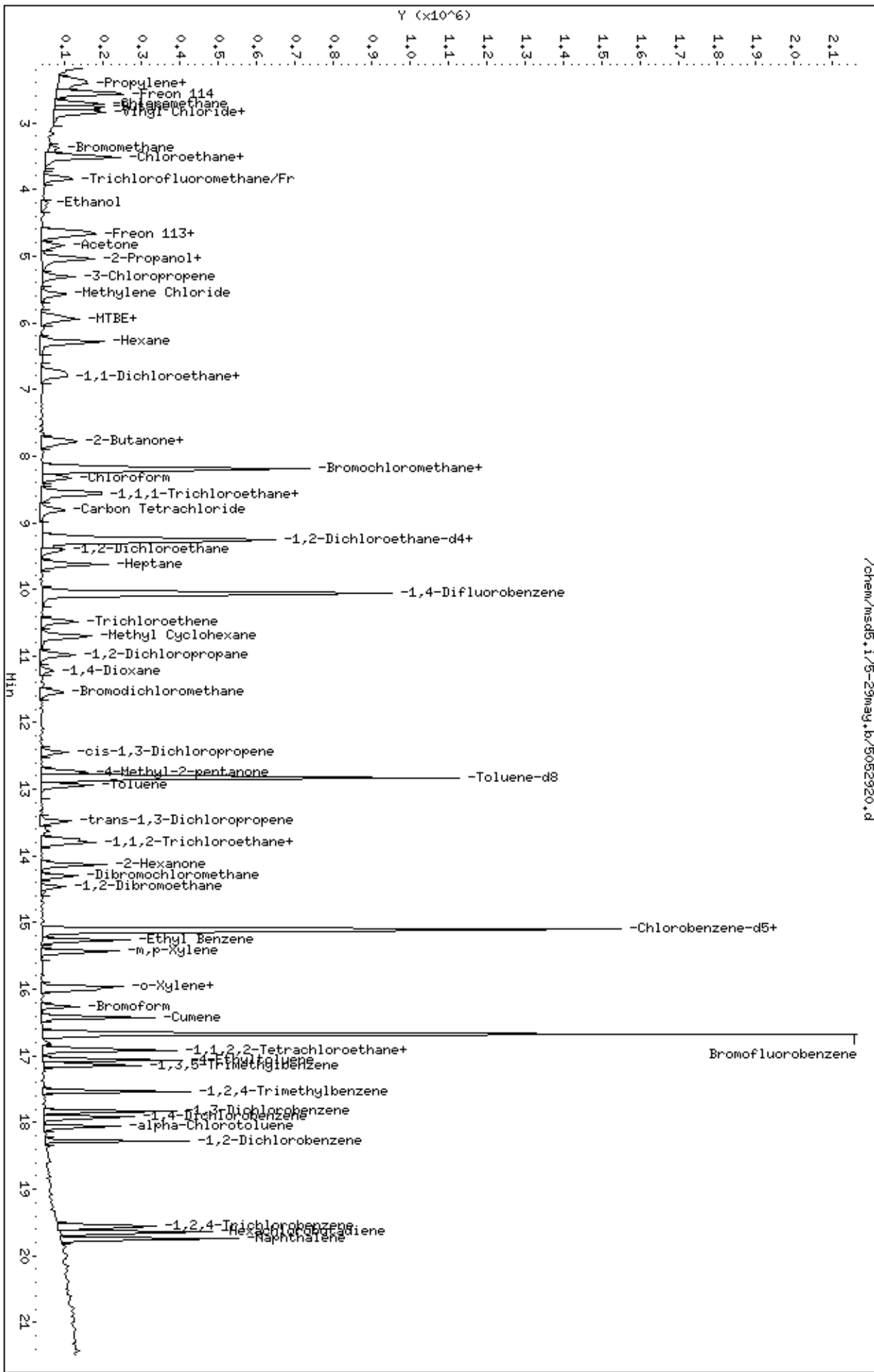
AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-29maj.b/5052920.d
 Date: 29-May-2007 20:44
 Client ID: Level 3
 Sample Info: 2.0mL #1487-288
 Column phase: RTX-624

Instrument: msd5.1
 Operator: JG
 Column diameter: 0.53



/chem/msd5.1/5-29maj.b/5052920.d

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052914.d
 Lab Smp Id: ICAL Client Smp ID: Level 4
 Inj Date : 29-MAY-2007 17:06
 Operator : JG Inst ID: msd5.i
 Smp Info : 25mL #1487-288
 Misc Info : 200ppbv-25ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 17:06 Cal File: 5052914.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 57 Bromochloromethane CAS #: 74-97-5									
8.187	8.187	(1.000)	130	313031	25.0000		70.00- 130.00	100.00	
8.187	8.187	(1.000)	128	248012			50.27- 110.27	79.23	
8.187	8.187	(1.000)	49	934584			281.04- 341.04	298.56	

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1249721	25.0000		70.00- 130.00	100.00	
10.067	10.067	(1.000)	88	214958			0.00- 48.57	17.20	

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	1007739	25.0000		70.00- 130.00	100.00	
15.099	15.099	(1.000)	82	649705			0.00- 30.00	64.47	

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.132)	65	598187	25.0000	23.838	70.00- 130.00	100.00	
9.265	9.265	(1.132)	67	297515			0.00- 30.00	49.74	

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1165064	25.0000	25.612	70.00- 130.00	100.00	
12.832	12.832	(1.275)	70	128433			0.00- 30.00	11.02	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 97 Toluene-d8 (continued)										
12.832	12.832	(1.275)	100	745926			0.00- 30.00	64.02		

\$ 122 Bromofluorobenzene										
						CAS #: 460-00-4				
16.675	16.675	(1.104)	174	654502	25.0000	25.850	70.00- 130.00	100.00		
16.675	16.675	(1.104)	95	1018554			131.53- 191.53	155.62		
16.675	16.675	(1.104)	176	602109			65.40- 125.40	91.99		

1 Propylene						CAS #: 115-07-1				
2.353	2.353	(0.287)	41	1011009	25.0000	24.216	70.00- 130.00	100.00		
2.353	2.353	(0.287)	42	666998			0.00- 30.00	65.97		
2.353	2.353	(0.287)	39	709842			0.00- 30.00	70.21		

2 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8				
2.408	2.408	(0.294)	85	1347935	25.0000	24.271	70.00- 130.00	100.00		
2.408	2.408	(0.294)	87	442032			0.00- 30.00	32.79		

3 Freon 114						CAS #: 76-14-2				
2.518	2.518	(0.308)	135	1341940	25.0000	25.264	70.00- 130.00	100.00		
2.518	2.518	(0.308)	137	410164			0.80- 60.80	30.57		

4 Chloromethane						CAS #: 74-87-3				
2.657	2.657	(0.325)	50	1202867	25.0000	23.989	70.00- 130.00	100.00		
2.657	2.657	(0.325)	52	347608			0.00- 30.00	28.90		

5 Vinyl Chloride						CAS #: 75-01-4				
2.850	2.850	(0.348)	62	1085068	25.0000	26.612	70.00- 130.00	100.00		
2.850	2.850	(0.348)	64	330164			0.00- 30.00	30.43		

6 1,3-Butadiene						CAS #: 106-99-0				
2.823	2.823	(0.345)	54	1025249	25.0000	25.332	70.00- 130.00	100.00		
2.823	2.823	(0.345)	39	1171748			0.00- 30.00	114.29		

7 Bromomethane						CAS #: 74-83-9				
3.376	3.376	(0.412)	94	593792	25.0000	24.514	70.00- 130.00	100.00		
3.376	3.376	(0.412)	96	597150			64.95- 124.95	100.57		

8 Chloroethane						CAS #: 75-00-3				
3.486	3.486	(0.426)	64	539261	25.0000	24.941	70.00- 130.00	100.00		
3.486	3.486	(0.426)	49	178886			0.00- 30.00	33.17		
3.486	3.486	(0.426)	66	162376			0.00- 30.00	30.11		

9 Trichlorofluoromethane/Fr11						CAS #: 75-69-4				
3.818	3.818	(0.466)	101	1424119	25.0000	25.438	70.00- 130.00	100.00		
3.818	3.818	(0.466)	103	932785			35.72- 95.72	65.50		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
13 Ethanol						CAS #: 64-17-5			
4.177	4.177	(0.510)	45	412419	25.0000	24.012	70.00- 130.00	100.00	
4.177	4.177	(0.510)	43	83275			0.00- 30.00	20.19	
4.177	4.177	(0.510)	46	165474			0.00- 30.00	40.12	

19 Freon 113						CAS #: 76-13-1			
4.647	4.647	(0.568)	151	837003	25.0000	24.418	70.00- 130.00	100.00	
4.647	4.647	(0.568)	153	552164			32.16- 92.16	65.97	
4.647	4.647	(0.568)	101	1138630			100.00- 160.00	136.04	

20 1,1-Dichloroethene						CAS #: 75-35-4			
4.675	4.675	(0.571)	61	1334698	25.0000	24.971	70.00- 130.00	100.00	
4.675	4.675	(0.571)	96	617724			19.13- 79.13	46.28	
4.675	4.675	(0.571)	98	404045			0.28- 60.28	30.27	

22 Acetone						CAS #: 67-64-1			
4.841	4.841	(0.591)	58	476184	25.0000	23.884	70.00- 130.00	100.00	
4.841	4.841	(0.591)	43	1621035			0.00- 30.00	340.42	

26 2-Propanol						CAS #: 67-63-0			
5.035	5.035	(0.615)	45	1984779	25.0000	22.842	70.00- 130.00	100.00	
5.035	5.035	(0.615)	43	414160			0.00- 30.00	20.87	
5.035	5.035	(0.615)	59	68357			0.00- 30.00	3.44	

25 Carbon Disulfide						CAS #: 75-15-0			
5.007	5.007	(0.612)	76	1850785	25.0000	25.151	70.00- 130.00	100.00	

28 3-Chloropropene						CAS #: 107-05-1			
5.311	5.311	(0.649)	76	298597	25.0000	24.017	70.00- 130.00	100.00	
5.311	5.311	(0.649)	41	1564994			0.00- 30.00	524.12	

29 Methylene Chloride						CAS #: 75-09-2			
5.560	5.560	(0.679)	49	1270288	25.0000	25.340	70.00- 130.00	100.00	
5.560	5.560	(0.679)	84	525898			9.87- 69.87	41.40	
5.560	5.560	(0.679)	51	367300			0.00- 30.00	28.91	

31 MTBE						CAS #: 1634-04-4			
5.892	5.892	(0.720)	73	1216602	25.0000	31.108	70.00- 130.00	100.00	
5.892	5.892	(0.720)	57	453109			5.77- 65.77	37.24	
5.892	5.892	(0.720)	41	500006			0.00- 30.00	41.10	

32 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.947	5.947	(0.726)	96	673204	25.0000	25.259	70.00- 130.00	100.00	
5.947	5.947	(0.726)	61	1295581			164.17- 224.17	192.45	
5.947	5.947	(0.726)	98	426270			0.00- 30.00	63.32	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Hexane						CAS #: 110-54-3			
6.279	6.279	(0.767)	57	1647548	25.0000	24.586	70.00- 130.00	100.00	
6.279	6.279	(0.767)	43	1257284			0.00- 30.00	76.31	
6.279	6.279	(0.767)	86	208383			0.00- 30.00	12.65	

43 1,1-Dichloroethane						CAS #: 75-34-3			
6.721	6.721	(0.821)	63	1367153	25.0000	25.647	70.00- 130.00	100.00	
6.721	6.721	(0.821)	65	388099			0.00- 59.00	28.39	

53 2-Butanone						CAS #: 78-93-3			
7.800	7.800	(0.953)	72	253122	25.0000	24.580	70.00- 130.00	100.00	
7.800	7.800	(0.953)	43	2091217			796.36- 856.36	826.17	
7.800	7.800	(0.953)	57	137774			0.00- 30.00	54.43	

52 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.744	7.744	(0.946)	61	1007089	25.0000	24.325	70.00- 130.00	100.00	
7.772	7.772	(0.949)	96	571660			25.31- 85.31	56.76	
7.772	7.772	(0.949)	98	362354			2.88- 62.88	35.98	

56 Tetrahydrofuran						CAS #: 109-99-9			
8.187	8.187	(1.000)	42	1254736	25.0000	23.494	70.00- 130.00	100.00	
8.187	8.187	(1.000)	71	224600			0.00- 48.47	17.90	
8.187	8.187	(1.000)	72	233351			0.00- 30.00	18.60	

58 Chloroform						CAS #: 67-66-3			
8.325	8.325	(1.017)	83	957335	25.0000	25.070	70.00- 130.00	100.00	
8.325	8.325	(1.017)	85	645239			33.68- 93.68	67.40	

62 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.574	8.574	(1.047)	97	1017811	25.0000	24.471	70.00- 130.00	100.00	
8.574	8.574	(1.047)	99	666965			32.24- 92.24	65.53	

61 Cyclohexane						CAS #: 110-82-7			
8.546	8.546	(1.044)	84	741086	25.0000	26.237	70.00- 130.00	100.00	
8.546	8.546	(1.044)	56	1447053			177.94- 237.94	195.26	
8.546	8.546	(1.044)	41	876222			93.55- 153.55	118.23	

63 Vinyl Acetate						CAS #: 108-05-4			
6.776	6.776	(0.828)	86	150268	25.0000	24.201	70.00- 130.00	100.00	
6.776	6.776	(0.828)	43	2750215			0.00- 30.00	1830.21	
6.776	6.776	(0.828)	42	197923			0.00- 30.00	131.71	

65 Carbon Tetrachloride						CAS #: 56-23-5			
8.795	8.795	(1.074)	119	890614	25.0000	24.578	70.00- 130.00	100.00	
8.795	8.795	(1.074)	117	940860			71.97- 131.97	105.64	

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

68	2,2,4-Trimethylpentane						CAS #: 540-84-1		
9.237	9.237	(1.128)	57	4119169	25.0000	25.867	70.00- 130.00	100.00	
9.237	9.237	(1.128)	56	1386524			0.00- 30.00	33.66	
9.237	9.237	(1.128)	41	1238030			0.00- 30.00	30.06	

69	Benzene						CAS #: 71-43-2		
9.237	9.237	(0.918)	78	1432495	25.0000	25.529	70.00- 130.00	100.00	
9.237	9.237	(0.918)	77	337983			0.00- 30.00	23.59	

72	1,2-Dichloroethane						CAS #: 107-06-2		
9.403	9.403	(0.934)	62	991451	25.0000	25.974	70.00- 130.00	100.00	
9.403	9.403	(0.934)	64	269322			0.00- 30.00	27.16	

75	Heptane						CAS #: 142-82-5		
9.624	9.624	(0.956)	100	171791	25.0000	22.528	70.00- 130.00	100.00	
9.624	9.624	(0.956)	43	1911392			0.00- 30.00	1112.63	
9.624	9.624	(0.956)	71	494847			0.00- 30.00	288.05	

80	Trichloroethene						CAS #: 79-01-6		
10.482	10.482	(1.041)	95	596772	25.0000	25.370	70.00- 130.00	100.00	
10.482	10.482	(1.041)	130	559516			65.35- 125.35	93.76	
10.482	10.482	(1.041)	97	372828			35.05- 95.05	62.47	

82	1,2-Dichloropropane						CAS #: 78-87-5		
10.979	10.979	(1.091)	63	618665	25.0000	25.311	70.00- 130.00	100.00	
10.979	10.979	(1.091)	62	472710			43.36- 103.36	76.41	
10.979	10.979	(1.091)	41	566826			62.33- 122.33	91.62	

84	1,4-Dioxane						CAS #: 123-91-1		
11.200	11.200	(1.113)	88	298809	25.0000	23.756	70.00- 130.00	100.00	
11.200	11.200	(1.113)	58	352148			87.73- 147.73	117.85	
11.200	11.200	(1.113)	57	119060			0.00- 30.00	39.84	

85	Bromodichloromethane						CAS #: 75-27-4		
11.532	11.532	(1.146)	83	874442	25.0000	25.164	70.00- 130.00	100.00	
11.532	11.532	(1.146)	85	581003			33.28- 93.28	66.44	

90	cis-1,3-Dichloropropene						CAS #: 10061-01-5		
12.445	12.445	(1.236)	75	665925	25.0000	26.561	70.00- 130.00	100.00	
12.445	12.445	(1.236)	77	195976			2.34- 62.34	29.43	
12.445	12.445	(1.236)	39	720943			80.54- 140.54	108.26	

91	4-Methyl-2-pentanone						CAS #: 108-10-1		
12.721	12.721	(1.264)	58	623679	25.0000	25.937	70.00- 130.00	100.00	
12.721	12.721	(1.264)	43	2035637			0.00- 30.00	326.39	
12.749	12.749	(1.266)	85	166620			0.00- 30.00	26.72	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
99 Toluene						CAS #: 108-88-3			
12.942	12.942	(1.286)	91	1379591	25.0000	25.601	70.00- 130.00	100.00	
12.942	12.942	(1.286)	92	821910			28.86- 88.86	59.58	

100 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.468	13.468	(0.892)	75	708220	25.0000	25.011	70.00- 130.00	100.00	
13.468	13.468	(0.892)	77	229673			1.06- 61.06	32.43	
13.468	13.468	(0.892)	39	704714			66.05- 126.05	99.50	

101 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.744	13.744	(0.910)	97	484845	25.0000	25.363	70.00- 130.00	100.00	
13.744	13.744	(0.910)	99	285477			31.72- 91.72	58.88	
13.744	13.744	(0.910)	83	388759			52.19- 112.19	80.18	

102 Tetrachloroethene						CAS #: 127-18-4			
13.799	13.799	(0.914)	166	572403	25.0000	23.942	70.00- 130.00	100.00	
13.799	13.799	(0.914)	129	495873			54.09- 114.09	86.63	
13.799	13.799	(0.914)	131	466259			52.34- 112.34	81.46	

103 2-Hexanone						CAS #: 591-78-6			
14.131	14.131	(0.936)	58	825888	25.0000	23.106	70.00- 130.00	100.00	
14.131	14.131	(0.936)	43	1969807			204.79- 264.79	238.51	
14.131	14.131	(0.936)	100	117306			0.00- 30.00	14.20	

105 Dibromochloromethane						CAS #: 124-48-1			
14.297	14.297	(0.947)	129	770291	25.0000	24.752	70.00- 130.00	100.00	
14.297	14.297	(0.947)	127	599597			0.00- 30.00	77.84	

106 1,2-Dibromoethane						CAS #: 106-93-4			
14.463	14.463	(0.958)	107	735711	25.0000	25.181	70.00- 130.00	100.00	
14.463	14.463	(0.958)	109	710546			62.51- 122.51	96.58	

109 Chlorobenzene						CAS #: 108-90-7			
15.154	15.154	(1.004)	112	1112852	25.0000	24.114	70.00- 130.00	100.00	
15.154	15.154	(1.004)	114	355744			2.97- 62.97	31.97	
15.154	15.154	(1.004)	77	712512			34.70- 94.70	64.03	

111 Ethyl Benzene						CAS #: 100-41-4			
15.265	15.265	(1.011)	106	595476	25.0000	26.256	70.00- 130.00	100.00	
15.265	15.265	(1.011)	91	2068831			0.00- 30.00	347.42	

113 m,p-Xylene						CAS #: 108-38-3			
15.431	15.431	(1.022)	106	732758	25.0000	24.816	70.00- 130.00	100.00	
15.431	15.431	(1.022)	91	1678977			0.00- 30.00	229.13	

114 o-Xylene						CAS #: 95-47-6			
15.956	15.956	(1.057)	106	693334	25.0000	24.829	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	1659603			210.36- 270.36	239.37	

115 Styrene CAS #: 100-42-5									
16.011	16.011	(1.060)	104	1076573	25.0000	26.377	70.00- 130.00	100.00	
16.011	16.011	(1.060)	78	637356			31.61- 91.61	59.20	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	659910	25.0000	24.743	70.00- 130.00	100.00	
16.260	16.260	(1.077)	171	324278			21.89- 81.89	49.14	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	1052242	25.0000	24.125	70.00- 130.00	100.00	
16.896	16.896	(1.119)	85	686767			35.56- 95.56	65.27	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	2461960	25.0000	25.678	70.00- 130.00	100.00	
17.062	17.062	(1.130)	120	708074			0.00- 58.00	28.76	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	1968559	25.0000	24.488	70.00- 130.00	100.00	
17.145	17.145	(1.135)	120	919042			0.00- 30.00	46.69	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	2186124	25.0000	25.328	70.00- 130.00	100.00	
17.532	17.532	(1.161)	120	967732			13.06- 73.06	44.27	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	1339584	25.0000	23.677	70.00- 130.00	100.00	
17.836	17.836	(1.181)	148	847624			0.00- 30.00	63.28	
17.836	17.836	(1.181)	111	619126			0.00- 30.00	46.22	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	1060761	25.0000	23.710	70.00- 130.00	100.00	
17.919	17.919	(1.187)	148	665597			0.00- 30.00	62.75	
17.919	17.919	(1.187)	111	504987			0.00- 30.00	47.61	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.057	18.057	(1.196)	91	1884401	25.0000	25.245	70.00- 130.00	100.00	
18.057	18.057	(1.196)	126	306550			0.00- 30.00	16.27	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	1353685	25.0000	23.066	70.00- 130.00	100.00	
18.279	18.279	(1.211)	148	841721			33.74- 93.74	62.18	
18.279	18.279	(1.211)	111	607170			15.34- 75.34	44.85	

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

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	872502	25.0000	21.140	70.00- 130.00	100.00	
19.578	19.578	(1.297)	182	847621			65.13- 125.13	97.15	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	712580	25.0000	20.835	70.00- 130.00	100.00	
19.661	19.661	(1.302)	223	438929			29.70- 89.70	61.60	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	2854973	25.0000	25.736	70.00- 130.00	100.00	
16.924	16.924	(1.121)	120	584264			0.00- 30.00	20.46	
16.924	16.924	(1.121)	105	97333			0.00- 30.00	3.41	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	2186960	25.0000	25.634	70.00- 130.00	100.00	
16.426	16.426	(1.088)	120	563198			0.00- 30.00	25.75	
16.426	16.426	(1.088)	51	462359			0.00- 30.00	21.14	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	2607606	25.0000	21.284	70.00- 130.00	100.00	
19.744	19.744	(1.308)	127	340365			0.00- 30.00	13.05	

30	Isopentane					CAS #: 78-78-4			
3.514	3.514	(0.429)	43	1748567	25.0000	24.702	70.00- 130.00	100.00	
3.514	3.514	(0.429)	57	1019300			0.00- 30.00	58.29	
3.514	3.514	(0.429)	72	77066			0.00- 30.00	4.41	

21	Butane					CAS #: 106-97-8			
2.740	2.740	(0.335)	58	284462	25.0000	24.634	70.00- 130.00	100.00	
2.740	2.740	(0.335)	43	2202115			0.00- 30.00	774.13	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	816309	25.0000	24.541	70.00- 130.00	100.00	
10.703	10.703	(1.063)	98	438875			0.00- 30.00	53.76	
10.703	10.703	(1.063)	55	1257458			0.00- 30.00	154.04	

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052914.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 4

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-25ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	313031	-0.24
79 1,4-Difluorobenze	1277249	766349	1788149	1249721	-2.16
108 Chlorobenzene-d5	1008759	605255	1412263	1007739	-0.10

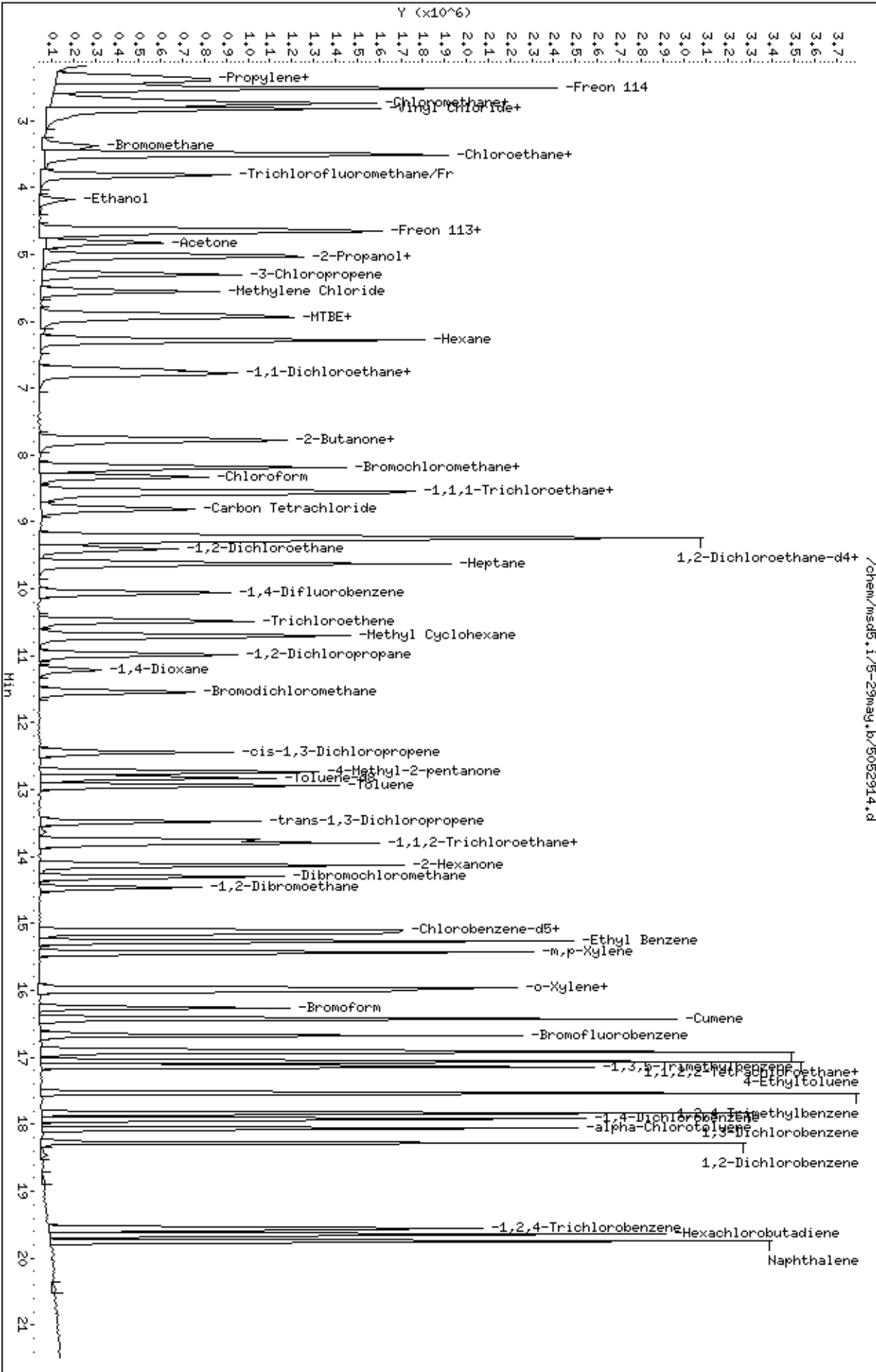
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052915.d
 Lab Smp Id: ICAL Client Smp ID: Level 5
 Inj Date : 29-MAY-2007 17:34
 Operator : JG Inst ID: msd5.i
 Smp Info : 50mL #1487-288
 Misc Info : 200ppbv-50ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 17:34 Cal File: 5052915.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 57 Bromochloromethane CAS #: 74-97-5									
8.187	8.187	(1.000)	130	313773	25.0000			70.00- 130.00	100.00
8.187	8.187	(1.000)	128	251870				50.27- 110.27	80.27
8.187	8.187	(1.000)	49	975944				281.04- 341.04	311.04

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1277249	25.0000			70.00- 130.00	100.00
10.067	10.067	(1.000)	88	237130				0.00- 48.57	18.57

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	1008759	25.0000			70.00- 130.00	100.00
15.099	15.099	(1.000)	82	646754				0.00- 30.00	64.11

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.132)	65	608892	25.0000	24.207		70.00- 130.00	100.00
9.265	9.265	(1.132)	67	325067				0.00- 30.00	53.39

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1171514	25.0000	25.199		70.00- 130.00	100.00
12.832	12.832	(1.275)	70	130769				0.00- 30.00	11.16

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 97 Toluene-d8 (continued)										
12.832	12.832	(1.275)	100	752358			0.00- 30.00	64.22		

\$ 122 Bromofluorobenzene										
						CAS #: 460-00-4				
16.675	16.675	(1.104)	174	634034	25.0000	25.016	70.00- 130.00	100.00		
16.675	16.675	(1.104)	95	1024178			131.53- 191.53	161.53		
16.675	16.675	(1.104)	176	604889			65.40- 125.40	95.40		

1 Propylene										
						CAS #: 115-07-1				
2.353	2.353	(0.287)	41	1977541	50.0000	47.254	70.00- 130.00	100.00		
2.353	2.353	(0.287)	42	1330489			0.00- 30.00	67.28		
2.353	2.353	(0.287)	39	1342456			0.00- 30.00	67.89		

2 Dichlorodifluoromethane/Fr12										
						CAS #: 75-71-8				
2.408	2.408	(0.294)	85	2608760	50.0000	46.862	70.00- 130.00	100.00		
2.408	2.408	(0.294)	87	852896			0.00- 30.00	32.69		

3 Freon 114										
						CAS #: 76-14-2				
2.546	2.546	(0.311)	135	2601667	50.0000	48.865	70.00- 130.00	100.00		
2.546	2.546	(0.311)	137	801189			0.80- 60.80	30.80		

4 Chloromethane										
						CAS #: 74-87-3				
2.657	2.657	(0.325)	50	2527415	50.0000	50.285	70.00- 130.00	100.00		
2.684	2.684	(0.328)	52	743142			0.00- 30.00	29.40		

5 Vinyl Chloride										
						CAS #: 75-01-4				
2.850	2.850	(0.348)	62	2094194	50.0000	51.240	70.00- 130.00	100.00		
2.850	2.850	(0.348)	64	615056			0.00- 30.00	29.37		

6 1,3-Butadiene										
						CAS #: 106-99-0				
2.823	2.823	(0.345)	54	2042037	50.0000	50.336	70.00- 130.00	100.00		
2.823	2.823	(0.345)	39	2379579			0.00- 30.00	116.53		

7 Bromomethane										
						CAS #: 74-83-9				
3.376	3.376	(0.412)	94	1191599	50.0000	49.078	70.00- 130.00	100.00		
3.376	3.376	(0.412)	96	1131476			64.95- 124.95	94.95		

8 Chloroethane										
						CAS #: 75-00-3				
3.514	3.514	(0.429)	64	1064620	50.0000	49.122	70.00- 130.00	100.00		
3.486	3.486	(0.426)	49	351878			0.00- 30.00	33.05		
3.514	3.514	(0.429)	66	294927			0.00- 30.00	27.70		

9 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
3.818	3.818	(0.466)	101	2738419	50.0000	48.798	70.00- 130.00	100.00		
3.818	3.818	(0.466)	103	1799740			35.72- 95.72	65.72		

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

13 Ethanol						CAS #: 64-17-5			
4.177	4.177	(0.510)	45	850814	50.0000	49.419	70.00- 130.00	100.00	
4.177	4.177	(0.510)	43	155554			0.00- 30.00	18.28	
4.177	4.177	(0.510)	46	329644			0.00- 30.00	38.74	

19 Freon 113						CAS #: 76-13-1			
4.647	4.647	(0.568)	151	1719734	50.0000	50.051	70.00- 130.00	100.00	
4.647	4.647	(0.568)	153	1068957			32.16- 92.16	62.16	
4.647	4.647	(0.568)	101	2235644			100.00- 160.00	130.00	

20 1,1-Dichloroethene						CAS #: 75-35-4			
4.675	4.675	(0.571)	61	2564587	50.0000	47.867	70.00- 130.00	100.00	
4.675	4.675	(0.571)	96	1260077			19.13- 79.13	49.13	
4.675	4.675	(0.571)	98	776684			0.28- 60.28	30.28	

22 Acetone						CAS #: 67-64-1			
4.841	4.841	(0.591)	58	948264	50.0000	47.449	70.00- 130.00	100.00	
4.841	4.841	(0.591)	43	3279219			0.00- 30.00	345.81	

26 2-Propanol						CAS #: 67-63-0			
5.035	5.035	(0.615)	45	3943361	50.0000	45.276	70.00- 130.00	100.00	
5.035	5.035	(0.615)	43	826999			0.00- 30.00	20.97	
5.035	5.035	(0.615)	59	130846			0.00- 30.00	3.32	

25 Carbon Disulfide						CAS #: 75-15-0			
5.007	5.007	(0.612)	76	3629502	50.0000	49.205	70.00- 130.00	100.00	

28 3-Chloropropene						CAS #: 107-05-1			
5.311	5.311	(0.649)	76	600746	50.0000	48.205	70.00- 130.00	100.00	
5.311	5.311	(0.649)	41	3100941			0.00- 30.00	516.18	

29 Methylene Chloride						CAS #: 75-09-2			
5.560	5.560	(0.679)	49	2469346	50.0000	49.144	70.00- 130.00	100.00	
5.560	5.560	(0.679)	84	984532			9.87- 69.87	39.87	
5.560	5.560	(0.679)	51	728946			0.00- 30.00	29.52	

31 MTBE						CAS #: 1634-04-4			
5.892	5.892	(0.720)	73	2179595	50.0000	55.599	70.00- 130.00	100.00	
5.892	5.892	(0.720)	57	779620			5.77- 65.77	35.77	
5.892	5.892	(0.720)	41	903114			0.00- 30.00	41.43	

32 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.947	5.947	(0.726)	96	1305614	50.0000	48.871	70.00- 130.00	100.00	
5.947	5.947	(0.726)	61	2535129			164.17- 224.17	194.17	
5.947	5.947	(0.726)	98	833020			0.00- 30.00	63.80	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Hexane						CAS #: 110-54-3			
6.279	6.279	(0.767)	57	3258302	50.0000	48.508	70.00- 130.00	100.00	
6.279	6.279	(0.767)	43	2453877			0.00- 30.00	75.31	
6.279	6.279	(0.767)	86	372964			0.00- 30.00	11.45	

43 1,1-Dichloroethane						CAS #: 75-34-3			
6.721	6.721	(0.821)	63	2641217	50.0000	49.430	70.00- 130.00	100.00	
6.721	6.721	(0.821)	65	765910			0.00- 59.00	29.00	

53 2-Butanone						CAS #: 78-93-3			
7.800	7.800	(0.953)	72	506249	50.0000	49.043	70.00- 130.00	100.00	
7.800	7.800	(0.953)	43	4183434			796.36- 856.36	826.36	
7.800	7.800	(0.953)	57	285976			0.00- 30.00	56.49	

52 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.744	7.744	(0.946)	61	2048143	50.0000	49.353	70.00- 130.00	100.00	
7.772	7.772	(0.949)	96	1132802			25.31- 85.31	55.31	
7.772	7.772	(0.949)	98	673477			2.88- 62.88	32.88	

56 Tetrahydrofuran						CAS #: 109-99-9			
8.187	8.187	(1.000)	42	2480236	50.0000	46.331	70.00- 130.00	100.00	
8.187	8.187	(1.000)	71	458003			0.00- 48.47	18.47	
8.187	8.187	(1.000)	72	511272			0.00- 30.00	20.61	

58 Chloroform						CAS #: 67-66-3			
8.325	8.325	(1.017)	83	1941721	50.0000	50.728	70.00- 130.00	100.00	
8.325	8.325	(1.017)	85	1236401			33.68- 93.68	63.68	

62 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.574	8.574	(1.047)	97	2051039	50.0000	49.196	70.00- 130.00	100.00	
8.574	8.574	(1.047)	99	1276636			32.24- 92.24	62.24	

61 Cyclohexane						CAS #: 110-82-7			
8.546	8.546	(1.044)	84	1394628	50.0000	49.257	70.00- 130.00	100.00	
8.546	8.546	(1.044)	56	2899995			177.94- 237.94	207.94	
8.546	8.546	(1.044)	41	1723103			93.55- 153.55	123.55	

63 Vinyl Acetate						CAS #: 108-05-4			
6.776	6.776	(0.828)	86	310352	50.0000	49.866	70.00- 130.00	100.00	
6.776	6.776	(0.828)	43	5590923			0.00- 30.00	1801.48	
6.776	6.776	(0.828)	42	423247			0.00- 30.00	136.38	

65 Carbon Tetrachloride						CAS #: 56-23-5			
8.795	8.795	(1.074)	119	1798619	50.0000	49.519	70.00- 130.00	100.00	
8.795	8.795	(1.074)	117	1834112			71.97- 131.97	101.97	

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

68	2,2,4-Trimethylpentane						CAS #: 540-84-1		
9.237	9.237	(1.128)	57	7899842	50.0000	49.490	70.00- 130.00	100.00	
9.237	9.237	(1.128)	56	2631057			0.00- 30.00	33.31	
9.237	9.237	(1.128)	41	2363844			0.00- 30.00	29.92	

69	Benzene						CAS #: 71-43-2		
9.237	9.237	(0.918)	78	2792699	50.0000	48.696	70.00- 130.00	100.00	
9.237	9.237	(0.918)	77	635503			0.00- 30.00	22.76	

72	1,2-Dichloroethane						CAS #: 107-06-2		
9.403	9.403	(0.934)	62	1890991	50.0000	48.473	70.00- 130.00	100.00	
9.403	9.403	(0.934)	64	564826			0.00- 30.00	29.87	

75	Heptane						CAS #: 142-82-5		
9.624	9.624	(0.956)	100	322848	50.0000	41.424	70.00- 130.00	100.00	
9.624	9.624	(0.956)	43	3735777			0.00- 30.00	1157.13	
9.624	9.624	(0.956)	71	966967			0.00- 30.00	299.51	

80	Trichloroethene						CAS #: 79-01-6		
10.481	10.481	(1.041)	95	1127151	50.0000	46.886	70.00- 130.00	100.00	
10.481	10.481	(1.041)	130	1074741			65.35- 125.35	95.35	
10.481	10.481	(1.041)	97	733182			35.05- 95.05	65.05	

82	1,2-Dichloropropane						CAS #: 78-87-5		
10.979	10.979	(1.091)	63	1212312	50.0000	48.529	70.00- 130.00	100.00	
10.979	10.979	(1.091)	62	889293			43.36- 103.36	73.36	
10.979	10.979	(1.091)	41	1119289			62.33- 122.33	92.33	

84	1,4-Dioxane						CAS #: 123-91-1		
11.200	11.200	(1.113)	88	628761	50.0000	48.910	70.00- 130.00	100.00	
11.200	11.200	(1.113)	58	740218			87.73- 147.73	117.73	
11.200	11.200	(1.113)	57	250012			0.00- 30.00	39.76	

85	Bromodichloromethane						CAS #: 75-27-4		
11.532	11.532	(1.146)	83	1785638	50.0000	50.279	70.00- 130.00	100.00	
11.532	11.532	(1.146)	85	1129938			33.28- 93.28	63.28	

90	cis-1,3-Dichloropropene						CAS #: 10061-01-5		
12.445	12.445	(1.236)	75	1251269	50.0000	48.833	70.00- 130.00	100.00	
12.445	12.445	(1.236)	77	404698			2.34- 62.34	32.34	
12.445	12.445	(1.236)	39	1383202			80.54- 140.54	110.54	

91	4-Methyl-2-pentanone						CAS #: 108-10-1		
12.721	12.721	(1.264)	58	1242393	50.0000	50.554	70.00- 130.00	100.00	
12.721	12.721	(1.264)	43	4006168			0.00- 30.00	322.46	
12.721	12.721	(1.264)	85	334037			0.00- 30.00	26.89	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
99 Toluene						CAS #: 108-88-3			
12.942	12.942	(1.286)	91	2697941	50.0000	48.986	70.00- 130.00	100.00	
12.942	12.942	(1.286)	92	1587962			28.86- 88.86	58.86	

100 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.468	13.468	(0.892)	75	1439559	50.0000	50.788	70.00- 130.00	100.00	
13.468	13.468	(0.892)	77	447190			1.06- 61.06	31.06	
13.468	13.468	(0.892)	39	1382710			66.05- 126.05	96.05	

101 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.744	13.744	(0.910)	97	913026	50.0000	47.713	70.00- 130.00	100.00	
13.744	13.744	(0.910)	99	563497			31.72- 91.72	61.72	
13.744	13.744	(0.910)	83	750381			52.19- 112.19	82.19	

102 Tetrachloroethene						CAS #: 127-18-4			
13.799	13.799	(0.914)	166	1117843	50.0000	46.709	70.00- 130.00	100.00	
13.799	13.799	(0.914)	129	940032			54.09- 114.09	84.09	
13.799	13.799	(0.914)	131	920420			52.34- 112.34	82.34	

103 2-Hexanone						CAS #: 591-78-6			
14.131	14.131	(0.936)	58	1705223	50.0000	47.659	70.00- 130.00	100.00	
14.131	14.131	(0.936)	43	4003631			204.79- 264.79	234.79	
14.131	14.131	(0.936)	100	215039			0.00- 30.00	12.61	

105 Dibromochloromethane						CAS #: 124-48-1			
14.297	14.297	(0.947)	129	1530062	50.0000	49.116	70.00- 130.00	100.00	
14.297	14.297	(0.947)	127	1187608			0.00- 30.00	77.62	

106 1,2-Dibromoethane						CAS #: 106-93-4			
14.463	14.463	(0.958)	107	1466592	50.0000	50.145	70.00- 130.00	100.00	
14.463	14.463	(0.958)	109	1356701			62.51- 122.51	92.51	

109 Chlorobenzene						CAS #: 108-90-7			
15.154	15.154	(1.004)	112	2111756	50.0000	45.712	70.00- 130.00	100.00	
15.154	15.154	(1.004)	114	696282			2.97- 62.97	32.97	
15.154	15.154	(1.004)	77	1366218			34.70- 94.70	64.70	

111 Ethyl Benzene						CAS #: 100-41-4			
15.265	15.265	(1.011)	106	1176670	50.0000	51.829	70.00- 130.00	100.00	
15.265	15.265	(1.011)	91	4011717			0.00- 30.00	340.94	

113 m,p-Xylene						CAS #: 108-38-3			
15.431	15.431	(1.022)	106	1446967	50.0000	48.954	70.00- 130.00	100.00	
15.431	15.431	(1.022)	91	3292215			0.00- 30.00	227.53	

114 o-Xylene						CAS #: 95-47-6			
15.956	15.956	(1.057)	106	1347497	50.0000	48.206	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	3238877			210.36- 270.36	240.36	

115 Styrene CAS #: 100-42-5									
16.011	16.011	(1.060)	104	2157926	50.0000	52.817	70.00- 130.00	100.00	
16.011	16.011	(1.060)	78	1329527			31.61- 91.61	61.61	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	1344664	50.0000	50.367	70.00- 130.00	100.00	
16.260	16.260	(1.077)	171	697697			21.89- 81.89	51.89	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	2042509	50.0000	46.782	70.00- 130.00	100.00	
16.896	16.896	(1.119)	85	1339122			35.56- 95.56	65.56	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	4892980	50.0000	50.981	70.00- 130.00	100.00	
17.062	17.062	(1.130)	120	1370048			0.00- 58.00	28.00	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	3867275	50.0000	48.058	70.00- 130.00	100.00	
17.145	17.145	(1.135)	120	1829395			0.00- 30.00	47.30	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	4293478	50.0000	49.692	70.00- 130.00	100.00	
17.532	17.532	(1.161)	120	1848724			13.06- 73.06	43.06	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	2603043	50.0000	45.963	70.00- 130.00	100.00	
17.836	17.836	(1.181)	148	1652604			0.00- 30.00	63.49	
17.836	17.836	(1.181)	111	1199103			0.00- 30.00	46.07	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	2184894	50.0000	48.787	70.00- 130.00	100.00	
17.919	17.919	(1.187)	148	1424849			0.00- 30.00	65.21	
17.919	17.919	(1.187)	111	1044325			0.00- 30.00	47.80	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.057	18.057	(1.196)	91	3978618	50.0000	53.248	70.00- 130.00	100.00	
18.057	18.057	(1.196)	126	670352			0.00- 30.00	16.85	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	2604216	50.0000	44.329	70.00- 130.00	100.00	
18.279	18.279	(1.211)	148	1659847			33.74- 93.74	63.74	
18.279	18.279	(1.211)	111	1180710			15.34- 75.34	45.34	

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

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	1813598	50.0000	43.898	70.00- 130.00	100.00	
19.578	19.578	(1.297)	182	1725272			65.13- 125.13	95.13	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	1503130	50.0000	43.906	70.00- 130.00	100.00	
19.661	19.661	(1.302)	223	897376			29.70- 89.70	59.70	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	5564453	50.0000	50.110	70.00- 130.00	100.00	
16.924	16.924	(1.121)	120	1167670			0.00- 30.00	20.98	
16.924	16.924	(1.121)	105	195614			0.00- 30.00	3.52	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	4265763	50.0000	49.949	70.00- 130.00	100.00	
16.426	16.426	(1.088)	120	1113653			0.00- 30.00	26.11	
16.426	16.426	(1.088)	51	874603			0.00- 30.00	20.50	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	5669868	50.0000	46.232	70.00- 130.00	100.00	
19.744	19.744	(1.308)	127	729925			0.00- 30.00	12.87	

30	Isopentane					CAS #: 78-78-4			
3.514	3.514	(0.429)	43	3288486	50.0000	46.346	70.00- 130.00	100.00	
3.514	3.514	(0.429)	57	1973329			0.00- 30.00	60.01	
3.514	3.514	(0.429)	72	153849			0.00- 30.00	4.68	

21	Butane					CAS #: 106-97-8			
2.767	2.767	(0.338)	58	545387	50.0000	47.117	70.00- 130.00	100.00	
2.740	2.740	(0.335)	43	4300789			0.00- 30.00	788.58	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	1639531	50.0000	48.227	70.00- 130.00	100.00	
10.703	10.703	(1.063)	98	831057			0.00- 30.00	50.69	
10.703	10.703	(1.063)	55	2454744			0.00- 30.00	149.72	

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052915.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	313773	0.00
79 1,4-Difluorobenze	1277249	766349	1788149	1277249	0.00
108 Chlorobenzene-d5	1008759	605255	1412263	1008759	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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.

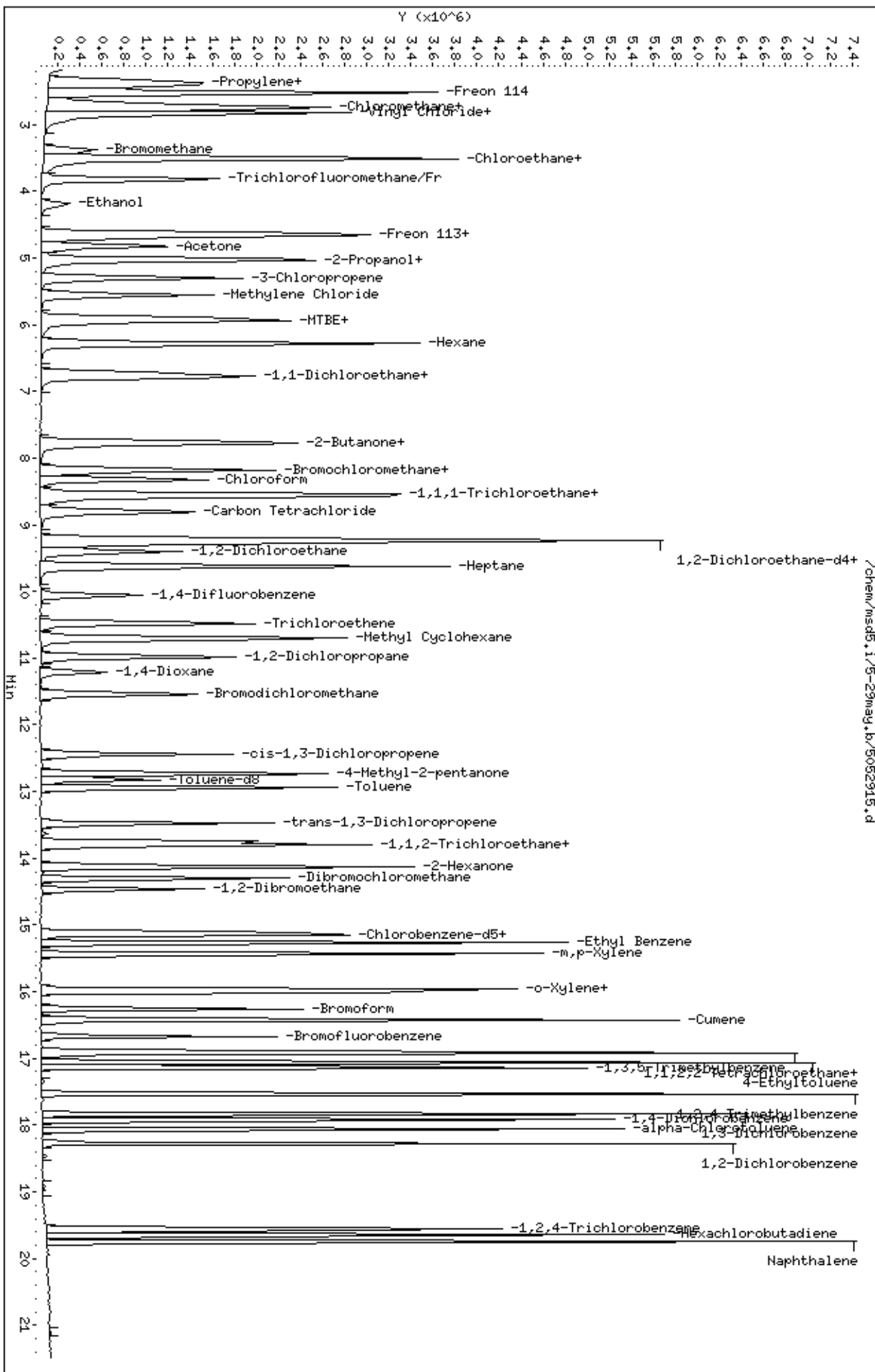
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msds.1/5-29maj.b/5052915.d
 Date: 29-May-2007 17:34
 Client ID: Level 5
 Sample Info: 50mL #1487-288

Column phase: RTX-624

Instrument: msds.i
 Operator: JG
 Column diameter: 0.53



Report Date: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052916.d
 Lab Smp Id: ICAL Client Smp ID: Level 6
 Inj Date : 29-MAY-2007 18:02
 Operator : JG Inst ID: msd5.i
 Smp Info : 100mL #1487-288
 Misc Info : 200ppbv-100ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 18:02 Cal File: 5052916.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 57 Bromochloromethane CAS #: 74-97-5									
8.187	8.187	(1.000)	130	308132	25.0000			70.00- 130.00	100.00
8.187	8.187	(1.000)	128	247507				50.32- 110.32	80.32
8.187	8.187	(1.000)	49	991965				291.93- 351.93	321.93

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1290059	25.0000			70.00- 130.00	100.00
10.067	10.067	(1.000)	88	229089				0.00- 47.76	17.76

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	997837	25.0000			70.00- 130.00	100.00
15.099	15.099	(1.000)	82	634003				33.54- 93.54	63.54

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.132)	65	631345	25.0000	25.560		70.00- 130.00	100.00
9.265	9.265	(1.132)	67	353451				25.98- 85.98	55.98

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1169696	25.0000	24.910		70.00- 130.00	100.00
12.832	12.832	(1.275)	70	129202				0.00- 41.05	11.05

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 97 Toluene-d8 (continued)										
12.832	12.832	(1.275)	100	772486			36.04- 96.04	66.04		

\$ 122 Bromofluorobenzene										
						CAS #:	460-00-4			
16.675	16.675	(1.104)	174	618126	25.0000	24.655	70.00- 130.00	100.00		
16.675	16.675	(1.104)	95	1047686			139.49- 199.49	169.49		
16.675	16.675	(1.104)	176	616660			69.76- 129.76	99.76		

1 Propylene										
						CAS #:	115-07-1			
2.353	2.353	(0.287)	41	3879844	100.000	94.407	70.00- 130.00	100.00		
2.353	2.353	(0.287)	42	2597832			36.96- 96.96	66.96		
2.353	2.353	(0.287)	39	2626382			37.69- 97.69	67.69		

2 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
2.408	2.408	(0.294)	85	5033193	100.000	92.069	70.00- 130.00	100.00		
2.408	2.408	(0.294)	87	1591457			1.62- 61.62	31.62		

3 Freon 114										
						CAS #:	76-14-2			
2.546	2.546	(0.311)	135	5101322	100.000	97.568	70.00- 130.00	100.00		
2.546	2.546	(0.311)	137	1608156			1.52- 61.52	31.52		

4 Chloromethane										
						CAS #:	74-87-3			
2.685	2.685	(0.328)	50	4782731	100.000	96.899	70.00- 130.00	100.00		
2.685	2.685	(0.328)	52	1411565			0.00- 59.51	29.51		

5 Vinyl Chloride										
						CAS #:	75-01-4			
2.850	2.850	(0.348)	62	4066850	100.000	101.33	70.00- 130.00	100.00		
2.850	2.850	(0.348)	64	1185286			0.00- 59.15	29.15		

6 1,3-Butadiene										
						CAS #:	106-99-0			
2.850	2.850	(0.348)	54	4016871	100.000	100.83	70.00- 130.00	100.00		
2.850	2.850	(0.348)	39	4905143			92.11- 152.11	122.11		

7 Bromomethane										
						CAS #:	74-83-9			
3.376	3.376	(0.412)	94	2359109	100.000	98.942	70.00- 130.00	100.00		
3.376	3.376	(0.412)	96	2220516			64.13- 124.13	94.13		

8 Chloroethane										
						CAS #:	75-00-3			
3.514	3.514	(0.429)	64	2023968	100.000	95.097	70.00- 130.00	100.00		
3.514	3.514	(0.429)	49	644239			1.83- 61.83	31.83		
3.514	3.514	(0.429)	66	554266			0.00- 57.39	27.39		

9 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
3.846	3.846	(0.470)	101	5484992	100.000	99.531	70.00- 130.00	100.00		
3.846	3.846	(0.470)	103	3517416			34.13- 94.13	64.13		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
13 Ethanol						CAS #: 64-17-5			
4.233	4.233	(0.517)	45	1569037	100.000	92.806	70.00- 130.00	100.00	
4.233	4.233	(0.517)	43	305119			0.00- 49.45	19.45	
4.233	4.233	(0.517)	46	658234			11.95- 71.95	41.95	

19 Freon 113						CAS #: 76-13-1			
4.648	4.648	(0.568)	151	3409505	100.000	101.05	70.00- 130.00	100.00	
4.648	4.648	(0.568)	153	2148525			33.02- 93.02	63.02	
4.648	4.648	(0.568)	101	4406174			99.23- 159.23	129.23	

20 1,1-Dichloroethene						CAS #: 75-35-4			
4.675	4.675	(0.571)	61	5199006	100.000	98.815	70.00- 130.00	100.00	
4.675	4.675	(0.571)	96	2434705			16.83- 76.83	46.83	
4.675	4.675	(0.571)	98	1570825			0.21- 60.21	30.21	

22 Acetone						CAS #: 67-64-1			
4.841	4.841	(0.591)	58	1868628	100.000	95.214	70.00- 130.00	100.00	
4.841	4.841	(0.591)	43	6688576			327.94- 387.94	357.94	

26 2-Propanol						CAS #: 67-63-0			
5.035	5.035	(0.615)	45	8032048	100.000	93.908	70.00- 130.00	100.00	
5.035	5.035	(0.615)	43	1545550			0.00- 49.24	19.24	
5.035	5.035	(0.615)	59	260764			0.00- 33.25	3.25	

25 Carbon Disulfide						CAS #: 75-15-0			
5.035	5.035	(0.615)	76	7084508	100.000	97.803	70.00- 130.00	100.00	

28 3-Chloropropene						CAS #: 107-05-1			
5.311	5.311	(0.649)	76	1204311	100.000	98.405	70.00- 130.00	100.00	
5.311	5.311	(0.649)	41	6149635			480.64- 540.64	510.64	

29 Methylene Chloride						CAS #: 75-09-2			
5.560	5.560	(0.679)	49	4779654	100.000	96.863	70.00- 130.00	100.00	
5.560	5.560	(0.679)	84	1979250			11.41- 71.41	41.41	
5.560	5.560	(0.679)	51	1413858			0.00- 59.58	29.58	

31 MTBE						CAS #: 1634-04-4			
5.892	5.892	(0.720)	73	4104171	100.000	106.61	70.00- 130.00	100.00	
5.892	5.892	(0.720)	57	1560239			8.02- 68.02	38.02	
5.892	5.892	(0.720)	41	1655494			10.34- 70.34	40.34	

32 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.947	5.947	(0.726)	96	2580935	100.000	98.377	70.00- 130.00	100.00	
5.947	5.947	(0.726)	61	4989046			163.30- 223.30	193.30	
5.947	5.947	(0.726)	98	1610606			32.40- 92.40	62.40	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Hexane						CAS #: 110-54-3			
6.279	6.279	(0.767)	57	6403104	100.000	97.072	70.00- 130.00	100.00	
6.279	6.279	(0.767)	43	4875282			46.14- 106.14	76.14	
6.279	6.279	(0.767)	86	736385			0.00- 41.50	11.50	

43 1,1-Dichloroethane						CAS #: 75-34-3			
6.721	6.721	(0.821)	63	5207169	100.000	99.236	70.00- 130.00	100.00	
6.721	6.721	(0.821)	65	1483351			0.00- 58.49	28.49	

53 2-Butanone						CAS #: 78-93-3			
7.800	7.800	(0.953)	72	1024798	100.000	101.10	70.00- 130.00	100.00	
7.800	7.800	(0.953)	43	8335090			783.34- 843.34	813.34	
7.800	7.800	(0.953)	57	545182			23.20- 83.20	53.20	

52 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.772	7.772	(0.949)	61	4014716	100.000	98.511	70.00- 130.00	100.00	
7.772	7.772	(0.949)	96	2145130			23.43- 83.43	53.43	
7.772	7.772	(0.949)	98	1366850			4.05- 64.05	34.05	

56 Tetrahydrofuran						CAS #: 109-99-9			
8.187	8.187	(1.000)	42	4868887	100.000	92.617	70.00- 130.00	100.00	
8.187	8.187	(1.000)	71	889880			0.00- 48.28	18.28	
8.187	8.187	(1.000)	72	960479			0.00- 49.73	19.73	

58 Chloroform						CAS #: 67-66-3			
8.325	8.325	(1.017)	83	3751320	100.000	99.798	70.00- 130.00	100.00	
8.325	8.325	(1.017)	85	2451973			35.36- 95.36	65.36	

62 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.574	8.574	(1.047)	97	4055971	100.000	99.068	70.00- 130.00	100.00	
8.574	8.574	(1.047)	99	2605972			34.25- 94.25	64.25	

61 Cyclohexane						CAS #: 110-82-7			
8.546	8.546	(1.044)	84	2747098	100.000	98.802	70.00- 130.00	100.00	
8.546	8.546	(1.044)	56	5740280			178.96- 238.96	208.96	
8.546	8.546	(1.044)	41	3527065			98.39- 158.39	128.39	

63 Vinyl Acetate						CAS #: 108-05-4			
6.777	6.777	(0.828)	86	630955	100.000	103.23	70.00- 130.00	100.00	
6.777	6.777	(0.828)	43	11341423			1767.50-1827.50	1797.50	
6.777	6.777	(0.828)	42	849118			104.58- 164.58	134.58	

65 Carbon Tetrachloride						CAS #: 56-23-5			
8.823	8.823	(1.078)	119	3558381	100.000	99.761	70.00- 130.00	100.00	
8.823	8.823	(1.078)	117	3745957			75.27- 135.27	105.27	

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

68	2,2,4-Trimethylpentane				CAS #:		540-84-1		
9.237	9.237	(1.128)	57	15310497	100.000	97.672	70.00-	130.00	100.00
9.237	9.237	(1.128)	56	5039229			2.91-	62.91	32.91
9.237	9.237	(1.128)	41	4555569			0.00-	59.75	29.75

69	Benzene				CAS #:		71-43-2		
9.237	9.237	(0.918)	78	5399733	100.000	93.220	70.00-	130.00	100.00
9.237	9.237	(0.918)	77	1243997			0.00-	53.04	23.04

72	1,2-Dichloroethane				CAS #:		107-06-2		
9.403	9.403	(0.934)	62	3831760	100.000	97.248	70.00-	130.00	100.00
9.403	9.403	(0.934)	64	1171222			0.57-	60.57	30.57

75	Heptane				CAS #:		142-82-5		
9.625	9.625	(0.956)	100	679599	100.000	86.332	70.00-	130.00	100.00
9.625	9.625	(0.956)	43	7433656			1063.83-	1123.83	1093.83
9.625	9.625	(0.956)	71	1953286			257.42-	317.42	287.42

80	Trichloroethene				CAS #:		79-01-6		
10.482	10.482	(1.041)	95	2278344	100.000	93.830	70.00-	130.00	100.00
10.482	10.482	(1.041)	130	2102331			62.27-	122.27	92.27
10.482	10.482	(1.041)	97	1474171			34.70-	94.70	64.70

82	1,2-Dichloropropane				CAS #:		78-87-5		
10.979	10.979	(1.091)	63	2413976	100.000	95.673	70.00-	130.00	100.00
10.979	10.979	(1.091)	62	1824908			45.60-	105.60	75.60
10.979	10.979	(1.091)	41	2274016			64.20-	124.20	94.20

84	1,4-Dioxane				CAS #:		123-91-1		
11.201	11.201	(1.113)	88	1187787	100.000	91.478	70.00-	130.00	100.00
11.201	11.201	(1.113)	58	1452095			92.25-	152.25	122.25
11.201	11.201	(1.113)	57	491962			11.42-	71.42	41.42

85	Bromodichloromethane				CAS #:		75-27-4		
11.532	11.532	(1.146)	83	3609641	100.000	100.63	70.00-	130.00	100.00
11.532	11.532	(1.146)	85	2290045			33.44-	93.44	63.44

90	cis-1,3-Dichloropropene				CAS #:		10061-01-5		
12.445	12.445	(1.236)	75	2612482	100.000	100.94	70.00-	130.00	100.00
12.445	12.445	(1.236)	77	813057			1.12-	61.12	31.12
12.445	12.445	(1.236)	39	2745467			75.09-	135.09	105.09

91	4-Methyl-2-pentanone				CAS #:		108-10-1		
12.721	12.721	(1.264)	58	2456307	100.000	98.957	70.00-	130.00	100.00
12.721	12.721	(1.264)	43	8030829			296.95-	356.95	326.95
12.721	12.721	(1.264)	85	678307			0.00-	57.61	27.61

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
99 Toluene						CAS #: 108-88-3			
12.942	12.942	(1.286)	91	5347388	100.000	96.128	70.00- 130.00	100.00	
12.942	12.942	(1.286)	92	3160182			29.10- 89.10	59.10	

100 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.468	13.468	(0.892)	75	2877329	100.000	102.62	70.00- 130.00	100.00	
13.468	13.468	(0.892)	77	942837			2.77- 62.77	32.77	
13.468	13.468	(0.892)	39	2767706			66.19- 126.19	96.19	

101 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.744	13.744	(0.910)	97	1839021	100.000	97.156	70.00- 130.00	100.00	
13.744	13.744	(0.910)	99	1112402			30.49- 90.49	60.49	
13.744	13.744	(0.910)	83	1498571			51.49- 111.49	81.49	

102 Tetrachloroethene						CAS #: 127-18-4			
13.800	13.800	(0.914)	166	2197559	100.000	92.830	70.00- 130.00	100.00	
13.800	13.800	(0.914)	129	1844801			53.95- 113.95	83.95	
13.800	13.800	(0.914)	131	1772251			50.65- 110.65	80.65	

103 2-Hexanone						CAS #: 591-78-6			
14.131	14.131	(0.936)	58	3394161	100.000	95.901	70.00- 130.00	100.00	
14.131	14.131	(0.936)	43	8110792			208.96- 268.96	238.96	
14.131	14.131	(0.936)	100	433695			0.00- 42.78	12.78	

105 Dibromochloromethane						CAS #: 124-48-1			
14.297	14.297	(0.947)	129	3095365	100.000	100.45	70.00- 130.00	100.00	
14.297	14.297	(0.947)	127	2438261			48.77- 108.77	78.77	

106 1,2-Dibromoethane						CAS #: 106-93-4			
14.463	14.463	(0.958)	107	2872558	100.000	99.293	70.00- 130.00	100.00	
14.463	14.463	(0.958)	109	2696963			63.89- 123.89	93.89	

109 Chlorobenzene						CAS #: 108-90-7			
15.154	15.154	(1.004)	112	4259591	100.000	93.214	70.00- 130.00	100.00	
15.154	15.154	(1.004)	114	1394183			2.73- 62.73	32.73	
15.154	15.154	(1.004)	77	2739957			34.32- 94.32	64.32	

111 Ethyl Benzene						CAS #: 100-41-4			
15.265	15.265	(1.011)	106	2277050	100.000	101.40	70.00- 130.00	100.00	
15.265	15.265	(1.011)	91	8020329			322.22- 382.22	352.22	

113 m,p-Xylene						CAS #: 108-38-3			
15.431	15.431	(1.022)	106	2838789	100.000	97.094	70.00- 130.00	100.00	
15.431	15.431	(1.022)	91	6613844			202.98- 262.98	232.98	

114 o-Xylene						CAS #: 95-47-6			
15.956	15.956	(1.057)	106	2642508	100.000	95.570	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	6440442			213.72- 273.72	243.72	

115 Styrene CAS #: 100-42-5									
16.012	16.012	(1.060)	104	4239974	100.000	104.91	70.00- 130.00	100.00	
16.012	16.012	(1.060)	78	2624755			31.90- 91.90	61.90	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	2726657	100.000	103.25	70.00- 130.00	100.00	
16.260	16.260	(1.077)	171	1440322			22.82- 82.82	52.82	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	4047765	100.000	93.726	70.00- 130.00	100.00	
16.896	16.896	(1.119)	85	2647483			35.41- 95.41	65.41	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	9535697	100.000	100.44	70.00- 130.00	100.00	
17.062	17.062	(1.130)	120	2702404			0.00- 58.34	28.34	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	7805911	100.000	98.064	70.00- 130.00	100.00	
17.145	17.145	(1.135)	120	3635863			16.58- 76.58	46.58	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	8458160	100.000	98.966	70.00- 130.00	100.00	
17.532	17.532	(1.161)	120	3622293			12.83- 72.83	42.83	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	5183315	100.000	92.525	70.00- 130.00	100.00	
17.836	17.836	(1.181)	148	3271653			33.12- 93.12	63.12	
17.836	17.836	(1.181)	111	2372815			15.78- 75.78	45.78	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	4281403	100.000	96.646	70.00- 130.00	100.00	
17.919	17.919	(1.187)	148	2754246			34.33- 94.33	64.33	
17.919	17.919	(1.187)	111	2075867			18.49- 78.49	48.49	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.058	18.058	(1.196)	91	8386201	100.000	113.46	70.00- 130.00	100.00	
18.058	18.058	(1.196)	126	1430784			0.00- 47.06	17.06	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	5158293	100.000	88.766	70.00- 130.00	100.00	
18.279	18.279	(1.211)	148	3250770			33.02- 93.02	63.02	
18.279	18.279	(1.211)	111	2421915			16.95- 76.95	46.95	

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

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	3741818	100.000	91.563	70.00- 130.00	100.00	
19.578	19.578	(1.297)	182	3462449			62.53- 122.53	92.53	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	2851907	100.000	84.214	70.00- 130.00	100.00	
19.661	19.661	(1.302)	223	1744085			31.16- 91.16	61.16	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	11020317	100.000	100.33	70.00- 130.00	100.00	
16.924	16.924	(1.121)	120	2262141			0.00- 50.53	20.53	
16.924	16.924	(1.121)	105	387472			0.00- 33.52	3.52	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	8302219	100.000	98.277	70.00- 130.00	100.00	
16.426	16.426	(1.088)	120	2117285			0.00- 55.50	25.50	
16.426	16.426	(1.088)	51	1730031			0.00- 50.84	20.84	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	11598716	100.000	95.612	70.00- 130.00	100.00	
19.744	19.744	(1.308)	127	1496376			0.00- 42.90	12.90	

30	Isopentane					CAS #: 78-78-4			
3.514	3.514	(0.429)	43	6604801	100.000	94.789	70.00- 130.00	100.00	
3.514	3.514	(0.429)	57	3984828			30.33- 90.33	60.33	
3.514	3.514	(0.429)	72	310048			0.00- 34.69	4.69	

21	Butane					CAS #: 106-97-8			
2.767	2.767	(0.338)	58	1061151	100.000	93.353	70.00- 130.00	100.00	
2.767	2.767	(0.338)	43	8524222			773.30- 833.30	803.30	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	3179405	100.000	92.594	70.00- 130.00	100.00	
10.703	10.703	(1.063)	98	1608008			20.58- 80.58	50.58	
10.703	10.703	(1.063)	55	4935422			125.23- 185.23	155.23	

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052916.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 6

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-100ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	308132	-1.80
79 1,4-Difluorobenze	1277249	766349	1788149	1290059	1.00
108 Chlorobenzene-d5	1008759	605255	1412263	997837	-1.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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.

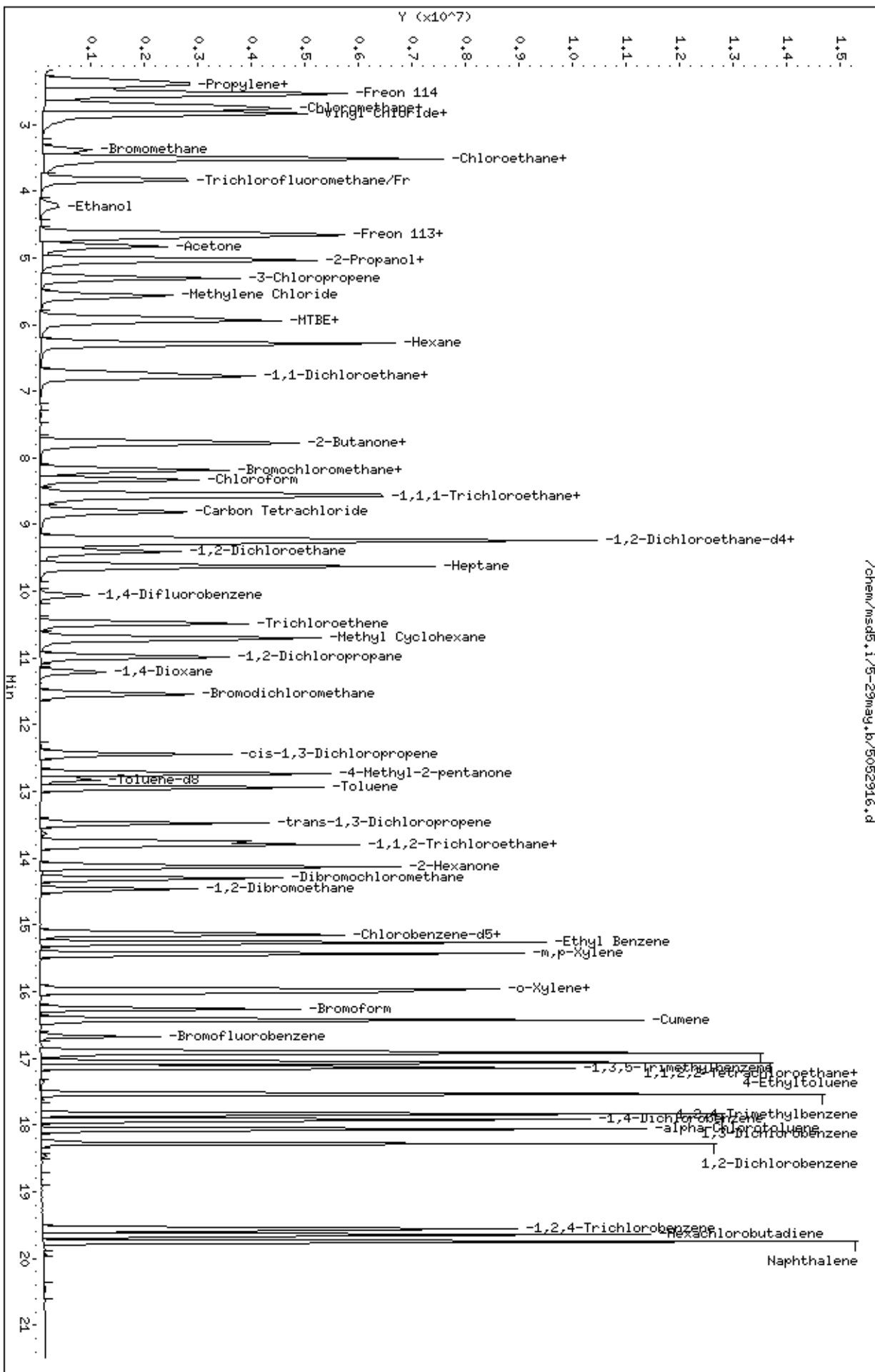
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-29maj.b/5052916.d
Date: 29-May-2007 18:02
Client ID: Level 6
Sample Info: 100mL #1487-288

Column phase: RTX-624

Instrument: msd5.1
Operator: JG
Column diameter: 0.53



Report Date: 30-May-2007 15:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052917.d
 Lab Smp Id: ICAL Client Smp ID: Level 7
 Inj Date : 29-MAY-2007 18:31
 Operator : JG Inst ID: msd5.i
 Smp Info : 200mL #1487-288
 Misc Info : 200ppbv-200ppbv
 Comment :
 Method : /chem/msd5.i/5-29may.b/t14q529a.m
 Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 18:31 Cal File: 5052917.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 57 Bromochloromethane CAS #: 74-97-5									
8.214	8.214	(1.000)	130	311601	25.0000			70.00- 130.00	100.00
8.214	8.214	(1.000)	128	254347				50.32- 110.32	81.63
8.187	8.187	(1.000)	49	1022869				291.93- 351.93	328.26

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1306041	25.0000			70.00- 130.00	100.00
10.067	10.067	(1.000)	88	235493				0.00- 47.76	18.03

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	1015050	25.0000			70.00- 130.00	100.00
15.099	15.099	(1.000)	82	657859				33.54- 93.54	64.81

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.128)	65	707999	25.0000	28.344		70.00- 130.00	100.00
9.265	9.265	(1.128)	67	454516				25.98- 85.98	64.20

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1192853	25.0000	25.092		70.00- 130.00	100.00
12.832	12.832	(1.275)	70	122977				0.00- 41.05	10.31

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 97 Toluene-d8 (continued)									
12.832	12.832	(1.275)	100	847642			36.04- 96.04	71.06	

\$ 122 Bromofluorobenzene									
						CAS #: 460-00-4			
16.675	16.675	(1.104)	174	653382	25.0000	25.620	70.00- 130.00	100.00	
16.675	16.675	(1.104)	95	1082477			139.49- 199.49	165.67	
16.675	16.675	(1.104)	176	631949			69.76- 129.76	96.72	

1 Propylene									
						CAS #: 115-07-1			
2.353	2.353	(0.286)	41	7610915	200.000	183.13	70.00- 130.00	100.00	
2.353	2.353	(0.286)	42	5059607			36.96- 96.96	66.48	
2.353	2.353	(0.286)	39	5181095			37.69- 97.69	68.07	

2 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
2.408	2.408	(0.293)	85	11120306	200.000	201.15	70.00- 130.00	100.00(A)	
2.408	2.408	(0.293)	87	3600922			1.62- 61.62	32.38	

3 Freon 114									
						CAS #: 76-14-2			
2.574	2.574	(0.313)	135	9791972	200.000	185.20	70.00- 130.00	100.00	
2.574	2.574	(0.313)	137	3092102			1.52- 61.52	31.58	

4 Chloromethane									
						CAS #: 74-87-3			
2.712	2.712	(0.330)	50	8634661	200.000	172.99	70.00- 130.00	100.00	
2.712	2.712	(0.330)	52	2502871			0.00- 59.51	28.99	

5 Vinyl Chloride									
						CAS #: 75-01-4			
2.850	2.850	(0.347)	62	7986588	200.000	196.77	70.00- 130.00	100.00	
2.850	2.850	(0.347)	64	2363393			0.00- 59.15	29.59	

6 1,3-Butadiene									
						CAS #: 106-99-0			
2.850	2.850	(0.347)	54	7889222	200.000	195.82	70.00- 130.00	100.00	
2.850	2.850	(0.347)	39	9912886			92.11- 152.11	125.65	

7 Bromomethane									
						CAS #: 74-83-9			
3.376	3.376	(0.411)	94	4669479	200.000	193.66	70.00- 130.00	100.00	
3.376	3.376	(0.411)	96	4386551			64.13- 124.13	93.94	

8 Chloroethane									
						CAS #: 75-00-3			
3.542	3.542	(0.431)	64	3937068	200.000	182.92	70.00- 130.00	100.00	
3.542	3.542	(0.431)	49	1326662			1.83- 61.83	33.70	
3.542	3.542	(0.431)	66	1093780			0.00- 57.39	27.78	

9 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
3.846	3.846	(0.468)	101	10954255	200.000	196.56	70.00- 130.00	100.00	
3.846	3.846	(0.468)	103	7062299			34.13- 94.13	64.47	

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

13 Ethanol						CAS #: 64-17-5			
4.260	4.260	(0.519)	45	3233825	200.000	189.14	70.00- 130.00	100.00	
4.260	4.260	(0.519)	43	606805			0.00- 49.45	18.76	
4.260	4.260	(0.519)	46	1345732			11.95- 71.95	41.61	

19 Freon 113						CAS #: 76-13-1			
4.648	4.648	(0.566)	151	6592063	200.000	193.19	70.00- 130.00	100.00	
4.648	4.648	(0.566)	153	4201876			33.02- 93.02	63.74	
4.648	4.648	(0.566)	101	8659295			99.23- 159.23	131.36	

20 1,1-Dichloroethene						CAS #: 75-35-4			
4.703	4.703	(0.573)	61	10409747	200.000	195.65	70.00- 130.00	100.00	
4.703	4.703	(0.573)	96	4849812			16.83- 76.83	46.59	
4.703	4.703	(0.573)	98	3028738			0.21- 60.21	29.10	

22 Acetone						CAS #: 67-64-1			
4.841	4.841	(0.589)	58	3838077	200.000	193.39	70.00- 130.00	100.00	
4.841	4.841	(0.589)	43	13290914			327.94- 387.94	346.29	

26 2-Propanol						CAS #: 67-63-0			
5.035	5.035	(0.613)	45	16172441	200.000	186.98	70.00- 130.00	100.00	
5.035	5.035	(0.613)	43	3066653			0.00- 49.24	18.96	
5.035	5.035	(0.613)	59	522092			0.00- 33.25	3.23	

25 Carbon Disulfide						CAS #: 75-15-0			
5.035	5.035	(0.613)	76	14269656	200.000	194.80	70.00- 130.00	100.00	

28 3-Chloropropene						CAS #: 107-05-1			
5.311	5.311	(0.647)	76	2377652	200.000	192.12	70.00- 130.00	100.00	
5.311	5.311	(0.647)	41	12128414			480.64- 540.64	510.10	

29 Methylene Chloride						CAS #: 75-09-2			
5.588	5.588	(0.680)	49	9422323	200.000	188.82	70.00- 130.00	100.00	
5.588	5.588	(0.680)	84	3913369			11.41- 71.41	41.53	
5.588	5.588	(0.680)	51	2783900			0.00- 59.58	29.55	

31 MTBE						CAS #: 1634-04-4			
5.892	5.892	(0.717)	73	7067928	200.000	181.55	70.00- 130.00	100.00	
5.892	5.892	(0.717)	57	2729388			8.02- 68.02	38.62	
5.892	5.892	(0.717)	41	2774227			10.34- 70.34	39.25	

32 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.947	5.947	(0.724)	96	5006508	200.000	188.71	70.00- 130.00	100.00	
5.947	5.947	(0.724)	61	9884360			163.30- 223.30	197.43	
5.947	5.947	(0.724)	98	3206398			32.40- 92.40	64.04	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
38 Hexane						CAS #: 110-54-3			
6.279	6.279	(0.764)	57	12684813	200.000	190.16	70.00- 130.00	100.00	
6.279	6.279	(0.764)	43	9609118			46.14- 106.14	75.75	
6.307	6.307	(0.768)	86	1442359			0.00- 41.50	11.37	

43 1,1-Dichloroethane						CAS #: 75-34-3			
6.721	6.721	(0.818)	63	10408193	200.000	196.15	70.00- 130.00	100.00	
6.721	6.721	(0.818)	65	3024070			0.00- 58.49	29.05	

53 2-Butanone						CAS #: 78-93-3			
7.800	7.800	(0.950)	72	2026920	200.000	197.73	70.00- 130.00	100.00	
7.800	7.800	(0.950)	43	16911919			783.34- 843.34	834.37	
7.800	7.800	(0.950)	57	1096576			23.20- 83.20	54.10	

52 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.772	7.772	(0.946)	61	7881475	200.000	191.24	70.00- 130.00	100.00	
7.772	7.772	(0.946)	96	4217655			23.43- 83.43	53.51	
7.772	7.772	(0.946)	98	2704729			4.05- 64.05	34.32	

56 Tetrahydrofuran						CAS #: 109-99-9			
8.187	8.187	(0.997)	42	9697540	200.000	182.41	70.00- 130.00	100.00	
8.187	8.187	(0.997)	71	1752371			0.00- 48.28	18.07	
8.187	8.187	(0.997)	72	1915705			0.00- 49.73	19.75	

58 Chloroform						CAS #: 67-66-3			
8.325	8.325	(1.013)	83	7517837	200.000	197.77	70.00- 130.00	100.00	
8.325	8.325	(1.013)	85	4864330			35.36- 95.36	64.70	

62 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.574	8.574	(1.044)	97	8147060	200.000	196.78	70.00- 130.00	100.00	
8.574	8.574	(1.044)	99	5190937			34.25- 94.25	63.72	

61 Cyclohexane						CAS #: 110-82-7			
8.546	8.546	(1.040)	84	5390315	200.000	191.71	70.00- 130.00	100.00	
8.546	8.546	(1.040)	56	11510598			178.96- 238.96	213.54	
8.546	8.546	(1.040)	41	7019487			98.39- 158.39	130.22	

63 Vinyl Acetate						CAS #: 108-05-4			
6.804	6.804	(0.828)	86	1265458	200.000	204.74	70.00- 130.00	100.00(A)	
6.777	6.777	(0.825)	43	23335670			1767.50-1827.50	1844.05	
6.777	6.777	(0.825)	42	1723684			104.58- 164.58	136.21	

65 Carbon Tetrachloride						CAS #: 56-23-5			
8.823	8.823	(1.074)	119	7313294	200.000	202.75	70.00- 130.00	100.00(A)	
8.823	8.823	(1.074)	117	7567558			75.27- 135.27	103.48	

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

68	2,2,4-Trimethylpentane						CAS #: 540-84-1		
9.237	9.237	(1.125)	57	29998509	200.000	189.24	70.00- 130.00	100.00	
9.237	9.237	(1.125)	56	9991359			2.91- 62.91	33.31	
9.237	9.237	(1.125)	41	8983000			0.00- 59.75	29.94	

69	Benzene						CAS #: 71-43-2		
9.237	9.237	(0.918)	78	10596976	200.000	180.71	70.00- 130.00	100.00	
9.237	9.237	(0.918)	77	2475897			0.00- 53.04	23.36	

72	1,2-Dichloroethane						CAS #: 107-06-2		
9.403	9.403	(0.934)	62	7787936	200.000	195.23	70.00- 130.00	100.00	
9.403	9.403	(0.934)	64	2300497			0.57- 60.57	29.54	

75	Heptane						CAS #: 142-82-5		
9.624	9.624	(0.956)	100	1374422	200.000	172.46	70.00- 130.00	100.00	
9.624	9.624	(0.956)	43	15000867			1063.83-1123.83	1091.43	
9.624	9.624	(0.956)	71	3890710			257.42- 317.42	283.08	

80	Trichloroethene						CAS #: 79-01-6		
10.482	10.482	(1.041)	95	4546558	200.000	184.95	70.00- 130.00	100.00	
10.482	10.482	(1.041)	130	4231407			62.27- 122.27	93.07	
10.482	10.482	(1.041)	97	2923838			34.70- 94.70	64.31	

82	1,2-Dichloropropane						CAS #: 78-87-5		
10.979	10.979	(1.091)	63	4909719	200.000	192.20	70.00- 130.00	100.00	
10.979	10.979	(1.091)	62	3592121			45.60- 105.60	73.16	
10.979	10.979	(1.091)	41	4487523			64.20- 124.20	91.40	

84	1,4-Dioxane						CAS #: 123-91-1		
11.200	11.200	(1.113)	88	2376895	200.000	180.82	70.00- 130.00	100.00	
11.200	11.200	(1.113)	58	2881491			92.25- 152.25	121.23	
11.200	11.200	(1.113)	57	942507			11.42- 71.42	39.65	

85	Bromodichloromethane						CAS #: 75-27-4		
11.532	11.532	(1.146)	83	7281120	200.000	200.50	70.00- 130.00	100.00(A)	
11.532	11.532	(1.146)	85	4622385			33.44- 93.44	63.48	

90	cis-1,3-Dichloropropene						CAS #: 10061-01-5		
12.445	12.445	(1.236)	75	5147361	200.000	196.46	70.00- 130.00	100.00	
12.445	12.445	(1.236)	77	1635309			1.12- 61.12	31.77	
12.445	12.445	(1.236)	39	5600062			75.09- 135.09	108.79	

91	4-Methyl-2-pentanone						CAS #: 108-10-1		
12.721	12.721	(1.264)	58	4940698	200.000	196.61	70.00- 130.00	100.00	
12.721	12.721	(1.264)	43	16261496			296.95- 356.95	329.13	
12.721	12.721	(1.264)	85	1350014			0.00- 57.61	27.32	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
99 Toluene						CAS #: 108-88-3			
12.942	12.942	(1.286)	91	10572151	200.000	187.73	70.00- 130.00	100.00	
12.942	12.942	(1.286)	92	6337907			29.10- 89.10	59.95	

100 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.468	13.468	(0.892)	75	5849078	200.000	205.08	70.00- 130.00	100.00(A)	
13.468	13.468	(0.892)	77	1863853			2.77- 62.77	31.87	
13.468	13.468	(0.892)	39	5629501			66.19- 126.19	96.25	

101 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.744	13.744	(0.910)	97	3619415	200.000	187.97	70.00- 130.00	100.00	
13.744	13.744	(0.910)	99	2250575			30.49- 90.49	62.18	
13.744	13.744	(0.910)	83	2943200			51.49- 111.49	81.32	

102 Tetrachloroethene						CAS #: 127-18-4			
13.800	13.800	(0.914)	166	4340016	200.000	180.22	70.00- 130.00	100.00	
13.800	13.800	(0.914)	129	3646060			53.95- 113.95	84.01	
13.800	13.800	(0.914)	131	3440037			50.65- 110.65	79.26	

103 2-Hexanone						CAS #: 591-78-6			
14.131	14.131	(0.936)	58	6944992	200.000	192.90	70.00- 130.00	100.00	
14.131	14.131	(0.936)	43	16514542			208.96- 268.96	237.79	
14.131	14.131	(0.936)	100	839072			0.00- 42.78	12.08	

105 Dibromochloromethane						CAS #: 124-48-1			
14.297	14.297	(0.947)	129	6326805	200.000	201.84	70.00- 130.00	100.00(A)	
14.297	14.297	(0.947)	127	4939086			48.77- 108.77	78.07	

106 1,2-Dibromoethane						CAS #: 106-93-4			
14.463	14.463	(0.958)	107	5668890	200.000	192.63	70.00- 130.00	100.00	
14.463	14.463	(0.958)	109	5302620			63.89- 123.89	93.54	

109 Chlorobenzene						CAS #: 108-90-7			
15.154	15.154	(1.004)	112	8453821	200.000	181.86	70.00- 130.00	100.00	
15.154	15.154	(1.004)	114	2681212			2.73- 62.73	31.72	
15.154	15.154	(1.004)	77	5475393			34.32- 94.32	64.77	

111 Ethyl Benzene						CAS #: 100-41-4			
15.265	15.265	(1.011)	106	4440393	200.000	194.38	70.00- 130.00	100.00	
15.265	15.265	(1.011)	91	15885893			322.22- 382.22	357.76	

113 m,p-Xylene						CAS #: 108-38-3			
15.431	15.431	(1.022)	106	5576004	200.000	187.48	70.00- 130.00	100.00	
15.431	15.431	(1.022)	91	13064272			202.98- 262.98	234.29	

114 o-Xylene						CAS #: 95-47-6			
15.956	15.956	(1.057)	106	5184008	200.000	184.31	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	12782837			213.72- 273.72	246.58	

115 Styrene									
16.012	16.012	(1.060)	104	8546552	200.000	207.89	70.00- 130.00	100.00(A)	
16.012	16.012	(1.060)	78	5250640			31.90- 91.90	61.44	

118 Bromoform									
16.260	16.260	(1.077)	173	5543024	200.000	206.34	70.00- 130.00	100.00(A)	
16.260	16.260	(1.077)	171	2832334			22.82- 82.82	51.10	

123 1,1,2,2-Tetrachloroethane									
16.896	16.896	(1.119)	83	7863927	200.000	179.00	70.00- 130.00	100.00	
16.896	16.896	(1.119)	85	5093859			35.41- 95.41	64.78	

126 4-Ethyltoluene									
17.062	17.062	(1.130)	105	15781622	200.000	163.41	70.00- 130.00	100.00	
17.062	17.062	(1.130)	120	5346801			0.00- 58.34	33.88	

128 1,3,5-Trimethylbenzene									
17.145	17.145	(1.135)	105	15768476	200.000	194.74	70.00- 130.00	100.00	
17.145	17.145	(1.135)	120	7195408			16.58- 76.58	45.63	

131 1,2,4-Trimethylbenzene									
17.532	17.532	(1.161)	105	15040233	200.000	173.00	70.00- 130.00	100.00	
17.532	17.532	(1.161)	120	6888328			12.83- 72.83	45.80	

138 1,3-Dichlorobenzene									
17.836	17.836	(1.181)	146	9882802	200.000	173.42	70.00- 130.00	100.00	
17.836	17.836	(1.181)	148	6212153			33.12- 93.12	62.86	
17.836	17.836	(1.181)	111	4630904			15.78- 75.78	46.86	

141 1,4-Dichlorobenzene									
17.919	17.919	(1.187)	146	8724568	200.000	193.60	70.00- 130.00	100.00	
17.919	17.919	(1.187)	148	5439656			34.33- 94.33	62.35	
17.919	17.919	(1.187)	111	4133275			18.49- 78.49	47.38	

143 alpha-Chlorotoluene									
18.058	18.058	(1.196)	91	16464946	200.000	218.99	70.00- 130.00	100.00(A)	
18.058	18.058	(1.196)	126	2840876			0.00- 47.06	17.25	

146 1,2-Dichlorobenzene									
18.279	18.279	(1.211)	146	9804876	200.000	165.86	70.00- 130.00	100.00	
18.279	18.279	(1.211)	148	6227360			33.02- 93.02	63.51	
18.279	18.279	(1.211)	111	4801844			16.95- 76.95	48.97	

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

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	7132880	200.000	171.58	70.00- 130.00	100.00	
19.578	19.578	(1.297)	182	6850489			62.53- 122.53	96.04	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	5517576	200.000	160.17	70.00- 130.00	100.00	
19.661	19.661	(1.302)	223	3460043			31.16- 91.16	62.71	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	16889779	200.000	151.16	70.00- 130.00	100.00	
16.924	16.924	(1.121)	120	4448192			0.00- 50.53	26.34	
16.924	16.924	(1.121)	105	763455			0.00- 33.52	4.52	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	16719164	200.000	194.56	70.00- 130.00	100.00	
16.426	16.426	(1.088)	120	4205110			0.00- 55.50	25.15	
16.426	16.426	(1.088)	51	3534766			0.00- 50.84	21.14	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	17585232	200.000	142.50	70.00- 130.00	100.00	
19.744	19.744	(1.308)	127	2898078			0.00- 42.90	16.48	

30	Isopentane					CAS #: 78-78-4			
3.514	3.514	(0.428)	43	12983005	200.000	184.25	70.00- 130.00	100.00	
3.514	3.514	(0.428)	57	7730301			30.33- 90.33	59.54	
3.514	3.514	(0.428)	72	621098			0.00- 34.69	4.78	

21	Butane					CAS #: 106-97-8			
2.823	2.823	(0.344)	58	2126624	200.000	185.00	70.00- 130.00	100.00	
2.823	2.823	(0.344)	43	16915677			773.30- 833.30	795.42	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	6373668	200.000	183.35	70.00- 130.00	100.00	
10.703	10.703	(1.063)	98	3219742			20.58- 80.58	50.52	
10.703	10.703	(1.063)	55	9727631			125.23- 185.23	152.62	

QC Flag Legend

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

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 29-MAY-2007

Lab File ID: 5052917.d

Calibration Time: 17:34

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-29may.b/t14q529a.m

Misc Info: 200ppbv-200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	313773	188264	439282	311601	-0.69
79 1,4-Difluorobenze	1277249	766349	1788149	1306041	2.25
108 Chlorobenzene-d5	1008759	605255	1412263	1015050	0.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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.

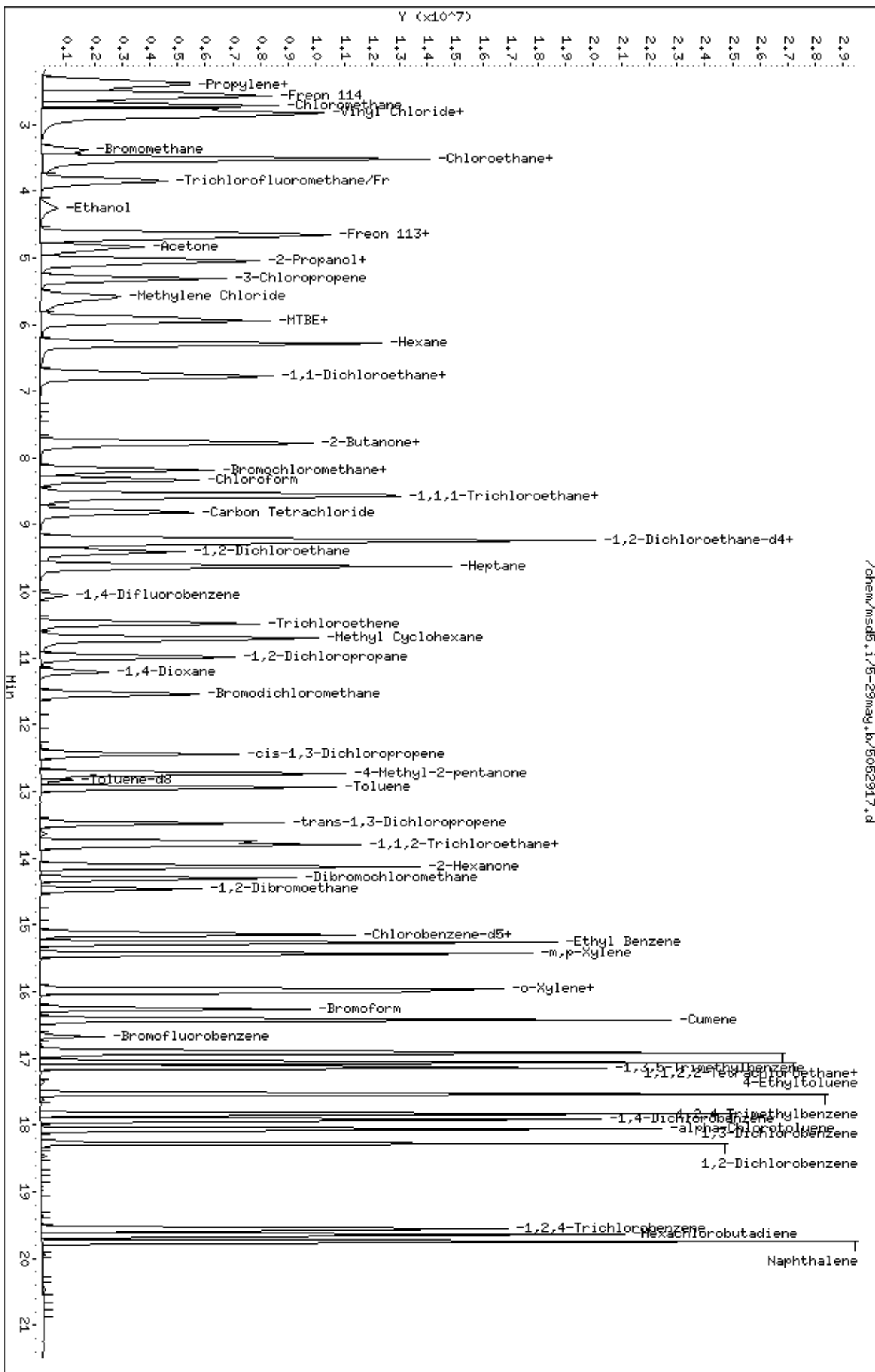
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-29maj.b/5052917.d
Date: 29-May-2007 18:31
Client ID: Level 7
Sample Info: 200mL #1487-288

Column phase: RTX-624

Instrument: msd5.1
Operator: JG
Column diameter: 0.53

/chem/msd5.1/5-29maj.b/5052917.d





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0705451-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053005	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/07 10:20 AM

Compound	%Recovery
Freon 12	80
Freon 114	97
Vinyl Chloride	97
Bromomethane	96
Chloroethane	88
Freon 11	99
1,1-Dichloroethene	93
Freon 113	98
Methylene Chloride	90
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	90
Chloroform	96
1,1,1-Trichloroethane	93
Carbon Tetrachloride	97
Benzene	93
1,2-Dichloroethane	93
Trichloroethene	95
1,2-Dichloropropane	89
cis-1,3-Dichloropropene	99
Toluene	94
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	95
Tetrachloroethene	92
1,2-Dibromoethane (EDB)	98
Chlorobenzene	91
Ethyl Benzene	100
m,p-Xylene	99
o-Xylene	93
Styrene	105
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	88
1,3-Butadiene	101
Hexane	91
Cyclohexane	95



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0705451-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053005	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/07 10:20 AM

Compound	%Recovery
Heptane	88
Bromodichloromethane	98
Dibromochloromethane	98
Cumene	98
Propylbenzene	98
Chloromethane	93
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	82
Acetone	89
Carbon Disulfide	95
2-Propanol	86
trans-1,2-Dichloroethene	94
2-Butanone (Methyl Ethyl Ketone)	95
Tetrahydrofuran	84
1,4-Dioxane	90
4-Methyl-2-pentanone	92
2-Hexanone	90
Bromoform	102
4-Ethyltoluene	97
Ethanol	92
Methyl tert-butyl ether	91
3-Chloropropene	94
2,2,4-Trimethylpentane	90
Naphthalene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-MAY-2007 10:20
 Lab File ID: 5053005.d Init. Cal. Date(s): 29-MAY-2007 29-MAY-2007
 Analysis Type: AIR Init. Cal. Times: 15:42 20:44
 Lab Sample ID: CCV-1 Quant Type: ISTD
 Method: /chem/msd5.i/5-30may.b/t14q529a.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE	
			RRF	%D / %DRIFT	%D / %DRIFT	
\$ 71 1,2-Dichloroethane-d4	2.00408	1.92545	0.010	3.92348	30.00000	Averaged
\$ 97 Toluene-d8	0.90997	0.90260	0.010	0.80976	30.00000	Averaged
\$ 122 Bromofluorobenzene	0.62813	0.64183	0.010	-2.18235	30.00000	Averaged
1 Propylene	3.33435	2.96311	0.010	11.13398	30.00000	Averaged
2 Dichlorodifluoromethane/Fr1	4.43541	3.56723	0.010	19.57386	30.00000	Averaged
3 Freon 114	4.24209	4.10340	0.010	3.26932	30.00000	Averaged
4 Chloromethane	4.00461	3.74166	0.010	6.56624	30.00000	Averaged
5 Vinyl Chloride	3.25637	3.15602	0.010	3.08149	30.00000	Averaged
6 1,3-Butadiene	3.23231	3.25283	0.010	-0.63491	30.00000	Averaged
7 Bromomethane	1.93451	1.86182	0.010	3.75732	30.00000	Averaged
8 Chloroethane	1.72680	1.52185	0.010	11.86853	30.00000	Averaged
9 Trichlorofluoromethane/Fr11	4.47116	4.41672	0.010	1.21764	30.00000	Averaged
13 Ethanol	1.37171	1.26714	0.010	7.62306	30.00000	Averaged
19 Freon 113	2.73760	2.68472	0.010	1.93186	30.00000	Averaged
20 1,1-Dichloroethene	4.26876	3.95710	0.010	7.30102	30.00000	Averaged
22 Acetone	1.59231	1.42360	0.010	10.59545	30.00000	Averaged
26 2-Propanol	6.93947	5.99222	0.010	13.65013	30.00000	Averaged
25 Carbon Disulfide	5.87706	5.60358	0.010	4.65333	30.00000	Averaged
28 3-Chloropropene	0.99294	0.93574	0.010	5.76076	30.00000	Averaged
29 Methylene Chloride	4.00350	3.59719	0.010	10.14892	30.00000	Averaged
31 MTBE	3.12343	2.83343	0.010	9.28471	30.00000	Averaged
32 trans-1,2-Dichloroethene	2.12856	2.00532	0.010	5.78995	30.00000	Averaged
38 Hexane	5.35177	4.87419	0.010	8.92387	30.00000	Averaged
43 1,1-Dichloroethane	4.25730	3.89079	0.010	8.60901	30.00000	Averaged
53 2-Butanone	0.82245	0.78496	0.010	4.55762	30.00000	Averaged
52 cis-1,2-Dichloroethene	3.30653	2.97009	0.010	10.17495	30.00000	Averaged
56 Tetrahydrofuran	4.26523	3.60370	0.010	15.50977	30.00000	Averaged
58 Chloroform	3.04977	2.94420	0.010	3.46182	30.00000	Averaged
62 1,1,1-Trichloroethane	3.32174	3.10486	0.010	6.52902	30.00000	Averaged
61 Cyclohexane	2.25587	2.14538	0.010	4.89773	30.00000	Averaged
63 Vinyl Acetate	0.49588	0.49875	0.010	-0.57818	30.00000	Averaged
65 Carbon Tetrachloride	2.89398	2.79747	0.010	3.33484	30.00000	Averaged
68 2,2,4-Trimethylpentane	12.71810	11.43480	0.010	10.09030	30.00000	Averaged
69 Benzene	1.12252	1.04911	0.010	6.53965	30.00000	Averaged
72 1,2-Dichloroethane	0.76357	0.70991	0.010	7.02712	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-MAY-2007 10:20
 Lab File ID: 5053005.d Init. Cal. Date(s): 29-MAY-2007 29-MAY-2007
 Analysis Type: AIR Init. Cal. Times: 15:42 20:44
 Lab Sample ID: CCV-1 Quant Type: ISTD
 Method: /chem/msd5.i/5-30may.b/tl4q529a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
75 Heptane	0.15255	0.13493	0.010	11.55308	30.00000	Averaged
80 Trichloroethene	0.47055	0.44605	0.010	5.20631	30.00000	Averaged
82 1,2-Dichloropropane	0.48896	0.43747	0.010	10.53187	30.00000	Averaged
84 1,4-Dioxane	0.25162	0.22548	0.010	10.38922	30.00000	Averaged
85 Bromodichloromethane	0.69513	0.67913	0.010	2.30216	30.00000	Averaged
90 cis-1,3-Dichloropropene	0.50154	0.49817	0.010	0.67013	30.00000	Averaged
91 4-Methyl-2-pentanone	0.48102	0.44200	0.010	8.11284	30.00000	Averaged
99 Toluene	1.07800	1.01435	0.010	5.90462	30.00000	Averaged
100 trans-1,3-Dichloropropene	0.70246	0.70592	0.010	-0.49251	30.00000	Averaged
101 1,1,2-Trichloroethane	0.47424	0.45205	0.010	4.67982	30.00000	Averaged
102 Tetrachloroethene	0.59311	0.54826	0.010	7.56170	30.00000	Averaged
103 2-Hexanone	0.88672	0.79404	0.010	10.45258	30.00000	Averaged
105 Dibromochloromethane	0.77203	0.75492	0.010	2.21631	30.00000	Averaged
106 1,2-Dibromoethane	0.72482	0.71172	0.010	1.80750	30.00000	Averaged
109 Chlorobenzene	1.14489	1.04489	0.010	8.73504	30.00000	Averaged
111 Ethyl Benzene	0.56264	0.56544	0.010	-0.49704	30.00000	Averaged
113 m,p-Xylene	0.73252	0.72855	0.010	0.54268	30.00000	Averaged
114 o-Xylene	0.69275	0.64527	0.010	6.85291	30.00000	Averaged
115 Styrene	1.01254	1.06805	0.010	-5.48222	30.00000	Averaged
118 Bromoform	0.66163	0.67336	0.010	-1.77273	30.00000	Averaged
123 1,1,2,2-Tetrachloroethane	1.08202	1.00099	0.010	7.48930	30.00000	Averaged
126 4-Ethyltoluene	2.37857	2.29997	0.010	3.30458	30.00000	Averaged
128 1,3,5-Trimethylbenzene	1.99431	1.97258	0.010	1.08961	30.00000	Averaged
131 1,2,4-Trimethylbenzene	2.14127	2.09766	0.010	2.03646	30.00000	Averaged
138 1,3-Dichlorobenzene	1.40355	1.25899	0.010	10.29972	30.00000	Averaged
141 1,4-Dichlorobenzene	1.10990	1.04055	0.010	6.24809	30.00000	Averaged
143 alpha-Chlorotoluene	1.85176	1.94525	0.010	-5.04872	30.00000	Averaged
146 1,2-Dichlorobenzene	1.45593	1.28829	0.010	11.51478	30.00000	Averaged
154 1,2,4-Trichlorobenzene	1.02387	0.90592	0.010	11.51950	30.00000	Averaged
155 Hexachlorobutadiene	0.84846	0.69669	0.010	17.88754	30.00000	Averaged
124 Propylbenzene	2.75198	2.69033	0.010	2.24014	30.00000	Averaged
119 Cumene	2.11652	2.06789	0.010	2.29789	30.00000	Averaged
156 Naphthalene	3.03934	2.66125	0.010	12.43980	30.00000	Averaged
30 Isopentane	5.65336	5.29658	0.010	6.31084	30.00000	Averaged
21 Butane	0.92225	0.83722	0.010	9.22012	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-MAY-2007 10:20
Lab File ID: 5053005.d Init. Cal. Date(s): 29-MAY-2007 29-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:42 20:44
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-30may.b/t14q529a.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE	
96 Methyl Cyclohexane	0.66541	0.61228	0.010	7.98558	30.00000	Averaged

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053005.d
 Lab Smp Id: CCV-1 Client Smp ID: CCV-1
 Inj Date : 30-MAY-2007 10:20
 Operator : JG Inst ID: msd5.i
 Smp Info : 50mL #1487-288
 Misc Info : 200ppbv-50ppbv
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 30-May-2007 15:51 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 57 Bromochloromethane CAS #: 74-97-5									
8.214	8.214	(1.000)	130	395291	25.0000		80.00- 120.00	100.00	
8.214	8.214	(1.000)	128	316664			50.11- 110.11	80.11	
8.187	8.187	(1.000)	49	1140698			258.57- 318.57	288.57	

* 79 1,4-Difluorobenzene CAS #: 540-36-3									
10.067	10.067	(1.000)	114	1596346	25.0000		80.00- 120.00	100.00	
10.067	10.067	(1.000)	88	292287			0.00- 48.31	18.31	

* 108 Chlorobenzene-d5 CAS #: 3114-55-4									
15.099	15.099	(1.000)	117	1223968	25.0000		80.00- 120.00	100.00	
15.099	15.099	(1.000)	82	776430			33.54- 93.54	63.44	

\$ 71 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.265	9.265	(1.128)	65	761114	25.0000	24.019	80.00- 120.00	100.00	
9.265	9.265	(1.128)	67	373282			25.98- 85.98	49.04	

\$ 97 Toluene-d8 CAS #: 2037-26-5									
12.832	12.832	(1.275)	98	1440864	25.0000	24.798	80.00- 120.00	100.00	
12.832	12.832	(1.275)	70	164980			0.00- 41.05	11.45	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 97 Toluene-d8 (continued)									
12.832	12.832	(1.275)	100	991957			36.04- 96.04	68.84	

\$ 122 Bromofluorobenzene CAS #: 460-00-4									
16.675	16.675	(1.104)	174	785584	25.0000	25.546	80.00- 120.00	100.00	
16.675	16.675	(1.104)	95	1276349			132.47- 192.47	162.47	
16.675	16.675	(1.104)	176	744761			64.80- 124.80	94.80	

1 Propylene CAS #: 115-07-1									
2.380	2.380	(0.290)	41	2342580	50.0000	44.433	80.00- 120.00	100.00	
2.380	2.380	(0.290)	42	1559469			36.96- 96.96	66.57	
2.380	2.380	(0.290)	39	1587283			37.69- 97.69	67.76	

2 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
2.436	2.436	(0.296)	85	2820185	50.0000	40.213	80.00- 120.00	100.00	
2.436	2.436	(0.296)	87	914779			1.62- 61.62	32.44	

3 Freon 114 CAS #: 76-14-2									
2.574	2.574	(0.313)	135	3244076	50.0000	48.365	80.00- 120.00	100.00	
2.574	2.574	(0.313)	137	1031100			1.78- 61.78	31.78	

4 Chloromethane CAS #: 74-87-3									
2.712	2.712	(0.330)	50	2958089	50.0000	46.717	80.00- 120.00	100.00	
2.712	2.712	(0.330)	52	798690			0.00- 59.51	27.00	

5 Vinyl Chloride CAS #: 75-01-4									
2.878	2.878	(0.350)	62	2495095	50.0000	48.459	80.00- 120.00	100.00	
2.906	2.906	(0.354)	64	760492			0.00- 59.15	30.48	

6 1,3-Butadiene CAS #: 106-99-0									
2.850	2.850	(0.347)	54	2571629	50.0000	50.317	80.00- 120.00	100.00	
2.850	2.850	(0.347)	39	2957346			92.11- 152.11	115.00	

7 Bromomethane CAS #: 74-83-9									
3.403	3.403	(0.414)	94	1471923	50.0000	48.121	80.00- 120.00	100.00	
3.403	3.403	(0.414)	96	1406705			65.57- 125.57	95.57	

8 Chloroethane CAS #: 75-00-3									
3.542	3.542	(0.431)	64	1203148	50.0000	44.066	80.00- 120.00	100.00	
3.542	3.542	(0.431)	49	398416			1.83- 61.83	33.11	
3.542	3.542	(0.431)	66	337432			0.00- 57.39	28.05	

9 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
3.846	3.846	(0.468)	101	3491781	50.0000	49.391	80.00- 120.00	100.00	
3.846	3.846	(0.468)	103	2262789			34.80- 94.80	64.80	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
13 Ethanol						CAS #: 64-17-5			
4.205	4.205	(0.512)	45	1001780	50.0000	46.188	80.00- 120.00	100.00	
4.205	4.205	(0.512)	43	190157			0.00- 49.45	18.98	
4.205	4.205	(0.512)	46	435798			11.95- 71.95	43.50	

19 Freon 113						CAS #: 76-13-1			
4.675	4.675	(0.569)	151	2122488	50.0000	49.034	80.00- 120.00	100.00	
4.675	4.675	(0.569)	153	1353619			33.78- 93.78	63.78	
4.675	4.675	(0.569)	101	2702909			97.35- 157.35	127.35	

20 1,1-Dichloroethene						CAS #: 75-35-4			
4.703	4.703	(0.572)	61	3128409	50.0000	46.349	80.00- 120.00	100.00	
4.703	4.703	(0.572)	96	1528798			18.87- 78.87	48.87	
4.703	4.703	(0.572)	98	946883			0.27- 60.27	30.27	

22 Acetone						CAS #: 67-64-1			
4.841	4.841	(0.589)	58	1125470	50.0000	44.702	80.00- 120.00	100.00	
4.841	4.841	(0.589)	43	4002727			327.94- 387.94	355.65	

26 2-Propanol						CAS #: 67-63-0			
5.062	5.062	(0.616)	45	4737344	50.0000	43.175	80.00- 120.00	100.00	
5.062	5.062	(0.616)	43	911523			0.00- 49.24	19.24	
5.062	5.062	(0.616)	59	144973			0.00- 33.25	3.06	

25 Carbon Disulfide						CAS #: 75-15-0			
5.035	5.035	(0.613)	76	4430091	50.0000	47.673	80.00- 120.00	100.00	

28 3-Chloropropene						CAS #: 107-05-1			
5.339	5.339	(0.650)	76	739778	50.0000	47.120	80.00- 120.00	100.00	
5.339	5.339	(0.650)	41	3639664			480.64- 540.64	491.99	

29 Methylene Chloride						CAS #: 75-09-2			
5.588	5.588	(0.680)	49	2843874	50.0000	44.926	80.00- 120.00	100.00	
5.588	5.588	(0.680)	84	1250132			13.96- 73.96	43.96	
5.588	5.588	(0.680)	51	861857			0.00- 59.58	30.31	

31 MTBE						CAS #: 1634-04-4			
5.919	5.919	(0.721)	73	2240056	50.0000	45.358	80.00- 120.00	100.00	
5.919	5.919	(0.721)	57	860952			8.43- 68.43	38.43	
5.919	5.919	(0.721)	41	868940			10.34- 70.34	38.79	

32 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.975	5.975	(0.727)	96	1585368	50.0000	47.105	80.00- 120.00	100.00	
5.975	5.975	(0.727)	61	2987570			158.45- 218.45	188.45	
5.975	5.975	(0.727)	98	995250			32.40- 92.40	62.78	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
38 Hexane						CAS #: 110-54-3			
6.306	6.306	(0.768)	57	3853445	50.0000	45.538	80.00- 120.00	100.00	
6.306	6.306	(0.768)	43	2931220			46.14- 106.14	76.07	
6.306	6.306	(0.768)	86	479976			0.00- 41.50	12.46	

43 1,1-Dichloroethane						CAS #: 75-34-3			
6.749	6.749	(0.822)	63	3075991	50.0000	45.695	80.00- 120.00	100.00	
6.749	6.749	(0.822)	65	896153			0.00- 59.13	29.13	

53 2-Butanone						CAS #: 78-93-3			
7.800	7.800	(0.950)	72	620578	50.0000	47.721	80.00- 120.00	100.00	
7.800	7.800	(0.950)	43	4893995			758.62- 818.62	788.62	
7.800	7.800	(0.950)	57	323189			23.20- 83.20	52.08	

52 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.772	7.772	(0.946)	61	2348099	50.0000	44.912	80.00- 120.00	100.00	
7.772	7.772	(0.946)	96	1351590			27.56- 87.56	57.56	
7.772	7.772	(0.946)	98	839985			5.77- 65.77	35.77	

56 Tetrahydrofuran						CAS #: 109-99-9			
8.187	8.187	(0.997)	42	2849022	50.0000	42.245	80.00- 120.00	100.00	
8.187	8.187	(0.997)	71	521674			0.00- 48.31	18.31	
8.187	8.187	(0.997)	72	575618			0.00- 49.73	20.20	

58 Chloroform						CAS #: 67-66-3			
8.352	8.352	(1.017)	83	2327628	50.0000	48.269	80.00- 120.00	100.00	
8.352	8.352	(1.017)	85	1496686			34.30- 94.30	64.30	

62 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.601	8.601	(1.047)	97	2454645	50.0000	46.735	80.00- 120.00	100.00	
8.601	8.601	(1.047)	99	1573792			34.11- 94.11	64.11	

61 Cyclohexane						CAS #: 110-82-7			
8.574	8.574	(1.044)	84	1696099	50.0000	47.551	80.00- 120.00	100.00	
8.574	8.574	(1.044)	56	3337985			166.80- 226.80	196.80	
8.574	8.574	(1.044)	41	1969823			86.14- 146.14	116.14	

63 Vinyl Acetate						CAS #: 108-05-4			
6.804	6.804	(0.828)	86	394302	50.0000	50.289	80.00- 120.00	100.00	
6.804	6.804	(0.828)	43	6645010			1767.50-1827.50	1685.26	
6.804	6.804	(0.828)	42	510648			104.58- 164.58	129.51	

65 Carbon Tetrachloride						CAS #: 56-23-5			
8.823	8.823	(1.074)	119	2211627	50.0000	48.332	80.00- 120.00	100.00	
8.823	8.823	(1.074)	117	2270311			72.65- 132.65	102.65	

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

68	2,2,4-Trimethylpentane						CAS #: 540-84-1		
9.265	9.265	(1.128)	57	9040148	50.0000	44.955	80.00- 120.00	100.00	
9.265	9.265	(1.128)	56	2948493			2.91- 62.91	32.62	
9.265	9.265	(1.128)	41	2732102			0.00- 59.75	30.22	

69	Benzene						CAS #: 71-43-2		
9.237	9.237	(0.918)	78	3349477	50.0000	46.730	80.00- 120.00	100.00	
9.237	9.237	(0.918)	77	760233			0.00- 53.04	22.70	

72	1,2-Dichloroethane						CAS #: 107-06-2		
9.431	9.431	(0.937)	62	2266538	50.0000	46.486	80.00- 120.00	100.00	
9.431	9.431	(0.937)	64	658193			0.57- 60.57	29.04	

75	Heptane						CAS #: 142-82-5		
9.652	9.652	(0.959)	100	430775	50.0000	44.223	80.00- 120.00	100.00	
9.624	9.624	(0.956)	43	4283441			1063.83-1123.83	994.36	
9.624	9.624	(0.956)	71	1219386			257.42- 317.42	283.07	

80	Trichloroethene						CAS #: 79-01-6		
10.482	10.482	(1.041)	95	1424112	50.0000	47.397	80.00- 120.00	100.00	
10.482	10.482	(1.041)	130	1325049			63.04- 123.04	93.04	
10.482	10.482	(1.041)	97	910151			33.91- 93.91	63.91	

82	1,2-Dichloropropane						CAS #: 78-87-5		
11.007	11.007	(1.093)	63	1396693	50.0000	44.734	80.00- 120.00	100.00	
11.007	11.007	(1.093)	62	1036459			44.21- 104.21	74.21	
11.007	11.007	(1.093)	41	1288996			62.29- 122.29	92.29	

84	1,4-Dioxane						CAS #: 123-91-1		
11.228	11.228	(1.115)	88	719893	50.0000	44.805	80.00- 120.00	100.00	
11.228	11.228	(1.115)	58	832190			85.60- 145.60	115.60	
11.228	11.228	(1.115)	57	286693			11.42- 71.42	39.82	

85	Bromodichloromethane						CAS #: 75-27-4		
11.560	11.560	(1.148)	83	2168253	50.0000	48.849	80.00- 120.00	100.00	
11.560	11.560	(1.148)	85	1376628			33.49- 93.49	63.49	

90	cis-1,3-Dichloropropene						CAS #: 10061-01-5		
12.445	12.445	(1.236)	75	1590518	50.0000	49.665	80.00- 120.00	100.00	
12.445	12.445	(1.236)	77	486239			0.57- 60.57	30.57	
12.445	12.445	(1.236)	39	1613362			71.44- 131.44	101.44	

91	4-Methyl-2-pentanone						CAS #: 108-10-1		
12.749	12.749	(1.266)	58	1411169	50.0000	45.944	80.00- 120.00	100.00	
12.749	12.749	(1.266)	43	4608730			296.95- 356.95	326.59	
12.749	12.749	(1.266)	85	396376			0.00- 57.61	28.09	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
99 Toluene						CAS #: 108-88-3			
12.942	12.942	(1.286)	91	3238512	50.0000	47.048	80.00- 120.00	100.00	
12.942	12.942	(1.286)	92	1921956			29.35- 89.35	59.35	

100 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.468	13.468	(0.892)	75	1728045	50.0000	50.246	80.00- 120.00	100.00	
13.468	13.468	(0.892)	77	565528			2.73- 62.73	32.73	
13.468	13.468	(0.892)	39	1606103			62.94- 122.94	92.94	

101 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.772	13.772	(0.912)	97	1106579	50.0000	47.660	80.00- 120.00	100.00	
13.772	13.772	(0.912)	99	682532			31.68- 91.68	61.68	
13.744	13.744	(0.910)	83	914795			52.67- 112.67	82.67	

102 Tetrachloroethene						CAS #: 127-18-4			
13.799	13.799	(0.914)	166	1342101	50.0000	46.219	80.00- 120.00	100.00	
13.799	13.799	(0.914)	129	1145466			55.35- 115.35	85.35	
13.799	13.799	(0.914)	131	1067380			49.53- 109.53	79.53	

103 2-Hexanone						CAS #: 591-78-6			
14.131	14.131	(0.936)	58	1943752	50.0000	44.774	80.00- 120.00	100.00	
14.131	14.131	(0.936)	43	4596919			206.50- 266.50	236.50	
14.131	14.131	(0.936)	100	276583			0.00- 42.78	14.23	

105 Dibromochloromethane						CAS #: 124-48-1			
14.297	14.297	(0.947)	129	1847998	50.0000	48.892	80.00- 120.00	100.00	
14.297	14.297	(0.947)	127	1438394			48.77- 108.77	77.84	

106 1,2-Dibromoethane						CAS #: 106-93-4			
14.463	14.463	(0.958)	107	1742247	50.0000	49.096	80.00- 120.00	100.00	
14.463	14.463	(0.958)	109	1633597			63.76- 123.76	93.76	

109 Chlorobenzene						CAS #: 108-90-7			
15.154	15.154	(1.004)	112	2557813	50.0000	45.632	80.00- 120.00	100.00	
15.154	15.154	(1.004)	114	838184			2.77- 62.77	32.77	
15.154	15.154	(1.004)	77	1674413			35.46- 95.46	65.46	

111 Ethyl Benzene						CAS #: 100-41-4			
15.265	15.265	(1.011)	106	1384160	50.0000	50.248	80.00- 120.00	100.00	
15.265	15.265	(1.011)	91	4849971			322.22- 382.22	350.39	

113 m,p-Xylene						CAS #: 108-38-3			
15.431	15.431	(1.022)	106	1783439	50.0000	49.729	80.00- 120.00	100.00	
15.431	15.431	(1.022)	91	3978388			202.98- 262.98	223.07	

114 o-Xylene						CAS #: 95-47-6			
15.956	15.956	(1.057)	106	1579590	50.0000	46.574	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	3902157			217.04- 277.04	247.04	

115 Styrene CAS #: 100-42-5									
16.011	16.011	(1.060)	104	2614517	50.0000	52.741	80.00- 120.00	100.00	
16.011	16.011	(1.060)	78	1570374			30.06- 90.06	60.06	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	1648352	50.0000	50.886	80.00- 120.00	100.00	
16.260	16.260	(1.077)	171	849174			21.52- 81.52	51.52	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	2450356	50.0000	46.255	80.00- 120.00	100.00	
16.896	16.896	(1.119)	85	1587813			34.80- 94.80	64.80	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	5630178	50.0000	48.348	80.00- 120.00	100.00	
17.062	17.062	(1.130)	120	1635405			0.00- 59.05	29.05	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	4828756	50.0000	49.455	80.00- 120.00	100.00	
17.145	17.145	(1.135)	120	2237840			16.58- 76.58	46.34	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	5134940	50.0000	48.982	80.00- 120.00	100.00	
17.532	17.532	(1.161)	120	2184274			12.54- 72.54	42.54	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	3081919	50.0000	44.850	80.00- 120.00	100.00	
17.836	17.836	(1.181)	148	1948349			33.12- 93.12	63.22	
17.836	17.836	(1.181)	111	1462383			15.78- 75.78	47.45	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	2547196	50.0000	46.876	80.00- 120.00	100.00	
17.919	17.919	(1.187)	148	1612048			34.33- 94.33	63.29	
17.919	17.919	(1.187)	111	1178996			18.49- 78.49	46.29	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.057	18.057	(1.196)	91	4761857	50.0000	52.524	80.00- 120.00	100.00	
18.057	18.057	(1.196)	126	789078			0.00- 47.06	16.57	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	3153644	50.0000	44.243	80.00- 120.00	100.00	
18.279	18.279	(1.211)	148	1951279			31.87- 91.87	61.87	
18.279	18.279	(1.211)	111	1459704			16.29- 76.29	46.29	

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

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	2217641	50.0000	44.240	80.00- 120.00	100.00	
19.578	19.578	(1.297)	182	2100743			64.73- 124.73	94.73	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	1705448	50.0000	41.056	80.00- 120.00	100.00	
19.661	19.661	(1.302)	223	1055712			31.90- 91.90	61.90	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	6585767	50.0000	48.880	80.00- 120.00	100.00	
16.924	16.924	(1.121)	120	1375546			0.00- 50.53	20.89	
16.924	16.924	(1.121)	105	233864			0.00- 33.52	3.55	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	5062058	50.0000	48.851	80.00- 120.00	100.00	
16.426	16.426	(1.088)	120	1311417			0.00- 55.50	25.91	
16.426	16.426	(1.088)	51	1042792			0.00- 50.84	20.60	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	6514579	50.0000	43.780	80.00- 120.00	100.00	
19.744	19.744	(1.308)	127	835075			0.00- 42.90	12.82	

30	Isopentane					CAS #: 78-78-4			
3.542	3.542	(0.431)	43	4187383	50.0000	46.844	80.00- 120.00	100.00	
3.542	3.542	(0.431)	57	2429452			30.33- 90.33	58.02	
3.542	3.542	(0.431)	72	200850			0.00- 34.69	4.80	

21	Butane					CAS #: 106-97-8			
2.795	2.795	(0.340)	58	661892	50.0000	45.390	80.00- 120.00	100.00	
2.795	2.795	(0.340)	43	5296999			773.30- 833.30	800.28	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	1954809	50.0000	46.007	80.00- 120.00	100.00	
10.730	10.730	(1.066)	98	1002053			20.58- 80.58	51.26	
10.703	10.703	(1.063)	55	2803801			125.23- 185.23	143.43	

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 30-MAY-2007

Lab File ID: 5053005.d

Calibration Time: 10:20

Lab Smp Id: CCV-1

Client Smp ID: CCV-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-30may.b/t14q529a.m

Misc Info: 200ppbv-50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	395291	0.00
79 1,4-Difluorobenze	1596346	957808	2234884	1596346	0.00
108 Chlorobenzene-d5	1223968	734381	1713555	1223968	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 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.

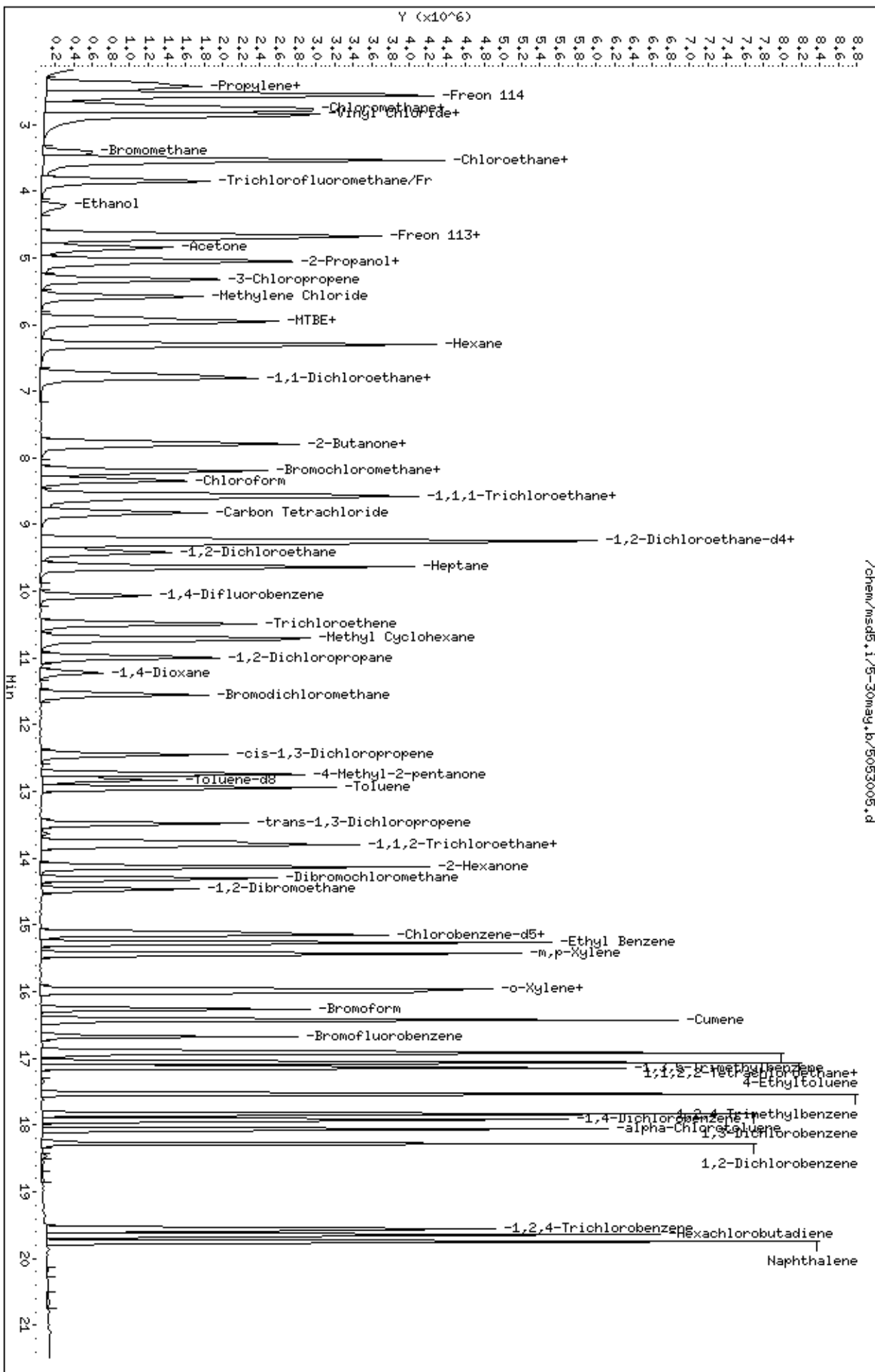
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-30may.b/5053005.d
 Date: 30-MAY-2007 10:20
 Client ID: CCV-1
 Sample Info: 50mL #1487-288

Column phase: RTX-624

Instrument: msd5.1
 Operator: JG
 Column diameter: 0.53





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0705451-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/07 10:47 AM

Compound	%Recovery
Freon 12	96
Freon 114	101
Vinyl Chloride	103
Bromomethane	99
Chloroethane	94
Freon 11	98
1,1-Dichloroethene	104
Freon 113	111
Methylene Chloride	99
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	95
Chloroform	103
1,1,1-Trichloroethane	97
Carbon Tetrachloride	100
Benzene	99
1,2-Dichloroethane	98
Trichloroethene	98
1,2-Dichloropropane	93
cis-1,3-Dichloropropene	100
Toluene	104
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	99
Tetrachloroethene	94
1,2-Dibromoethane (EDB)	98
Chlorobenzene	93
Ethyl Benzene	102
m,p-Xylene	99
o-Xylene	97
Styrene	104
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	87
1,3-Butadiene	99
Hexane	92
Cyclohexane	99



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0705451-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5053006	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/30/07 10:47 AM

Compound	%Recovery
Heptane	90
Bromodichloromethane	104
Dibromochloromethane	103
Cumene	103
Propylbenzene	103
Chloromethane	97
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	83
Acetone	92
Carbon Disulfide	98
2-Propanol	90
trans-1,2-Dichloroethene	97
2-Butanone (Methyl Ethyl Ketone)	97
Tetrahydrofuran	86
1,4-Dioxane	97
4-Methyl-2-pentanone	97
2-Hexanone	89
Bromoform	106
4-Ethyltoluene	100
Ethanol	101
Methyl tert-butyl ether	98
3-Chloropropene	98
2,2,4-Trimethylpentane	94
Naphthalene	81

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30may
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Level: LOW Operator: JG
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 2926Spectra.spk Quant Type: ISTD
 Sublist File: AT04+ENSR.sub
 Method File: /chem/msd5.i/5-30may.b/t14q529a.m
 Misc Info: 200ppbv - 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
2 Dichlorodifluorome	50.000	47.999	96.00	70-130
3 Freon 114	50.000	50.305	100.61	70-130
4 Chloromethane	50.000	48.375	96.75	70-130
5 Vinyl Chloride	50.000	51.334	102.67	70-130
6 1,3-Butadiene	50.000	49.449	98.90	60-140
7 Bromomethane	50.000	49.400	98.80	70-130
8 Chloroethane	50.000	46.770	93.54	70-130
9 Trichlorofluoromet	50.000	48.803	97.61	70-130
13 Ethanol	50.000	50.343	100.69	60-140
19 Freon 113	50.000	55.680	111.36	70-130
20 1,1-Dichloroethene	50.000	51.860	103.72	70-130
25 Carbon Disulfide	50.000	49.172	98.34	60-140
22 Acetone	50.000	45.951	91.90	60-140
26 2-Propanol	50.000	44.886	89.77	60-140
28 3-Chloropropene	50.000	48.773	97.55	60-140
29 Methylene Chloride	50.000	49.422	98.84	70-130
31 MTBE	50.000	49.098	98.20	60-140
32 trans-1,2-Dichloro	50.000	48.626	97.25	60-140
38 Hexane	50.000	45.922	91.84	60-140
43 1,1-Dichloroethane	50.000	48.704	97.41	70-130
52 cis-1,2-Dichloroet	50.000	47.348	94.70	70-130
53 2-Butanone	50.000	48.694	97.39	60-140
56 Tetrahydrofuran	50.000	43.215	86.43	60-140
58 Chloroform	50.000	51.315	102.63	70-130
61 Cyclohexane	50.000	49.734	99.47	60-140
62 1,1,1-Trichloroeth	50.000	48.717	97.43	70-130
63 Vinyl Acetate	50.000	49.799	99.60	60-140
65 Carbon Tetrachlori	50.000	49.846	99.69	70-130
68 2,2,4-Trimethylpen	50.000	46.964	93.93	60-140
69 Benzene	50.000	49.338	98.68	70-130
72 1,2-Dichloroethane	50.000	49.012	98.02	70-130
75 Heptane	50.000	45.139	90.28	60-140
80 Trichloroethene	50.000	49.043	98.09	70-130

Report Date: 30-May-2007 15:51

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
82 1,2-Dichloropropan	50.000	46.708	93.42	70-130
84 1,4-Dioxane	50.000	48.653	97.31	60-140
85 Bromodichlorometha	50.000	51.884	103.77	60-140
90 cis-1,3-Dichloropr	50.000	50.289	100.58	70-130
91 4-Methyl-2-pentano	50.000	48.701	97.40	60-140
99 Toluene	50.000	51.774	103.55	70-130
100 trans-1,3-Dichloro	50.000	52.261	104.52	70-130
101 1,1,2-Trichloroeth	50.000	49.617	99.23	70-130
102 Tetrachloroethene	50.000	47.235	94.47	70-130
103 2-Hexanone	50.000	44.317	88.63	60-140
105 Dibromochlorometha	50.000	51.303	102.61	60-140
106 1,2-Dibromoethane	50.000	48.818	97.64	70-130
109 Chlorobenzene	50.000	46.726	93.45	70-130
111 Ethyl Benzene	50.000	51.045	102.09	70-130
113 m,p-Xylene	50.000	49.406	98.81	70-130
114 o-Xylene	50.000	48.440	96.88	70-130
115 Styrene	50.000	51.773	103.55	70-130
118 Bromoform	50.000	52.863	105.73	60-140
119 Cumene	50.000	51.544	103.09	60-140
123 1,1,2,2-Tetrachlor	50.000	46.613	93.23	70-130
124 Propylbenzene	50.000	51.573	103.15	60-140
126 4-Ethyltoluene	50.000	50.298	100.60	60-140
128 1,3,5-Trimethylben	50.000	48.700	97.40	70-130
131 1,2,4-Trimethylben	50.000	50.045	100.09	70-130
138 1,3-Dichlorobenzen	50.000	46.209	92.42	70-130
141 1,4-Dichlorobenzen	50.000	47.837	95.67	70-130
143 alpha-Chlorotoluen	50.000	55.971	111.94	70-130
146 1,2-Dichlorobenzen	50.000	43.480	86.96	70-130
154 1,2,4-Trichloroben	50.000	42.864	85.73	70-130
155 Hexachlorobutadien	50.000	41.380	82.76	70-130
1 Propylene	50.000	49.783	99.57	70-130
156 Naphthalene	50.000	40.749	81.50	60-140
21 Butane	50.000	47.404	94.81	70-130
30 Isopentane	50.000	44.991	89.98	70-130
96 Methyl Cyclohexane	50.000	49.303	98.61	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 71 1,2-Dichloroethane	25.000	22.923	91.69	70-130
\$ 97 Toluene-d8	25.000	25.032	100.13	70-130
\$ 122 Bromofluorobenzene	25.000	25.205	100.82	70-130

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30may.b/5053006.d
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Inj Date : 30-MAY-2007 10:47
 Operator : JG Inst ID: msd5.i
 Smp Info : 50mL #1487-272
 Misc Info : 200ppbv - 50ppbv
 Comment :
 Method : /chem/msd5.i/5-30may.b/t14q529a.m
 Meth Date : 30-May-2007 15:51 jgray Quant Type: ISTD
 Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.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		
==	=====	=====	=====	=====	=====	=====		

* 57	Bromochloromethane		CAS #: 74-97-5					
8.187	8.214 (1.000)	130	324229	25.0000	80.00-	120.00	100.00	
8.187	8.214 (1.000)	128	240423		50.11-	110.11	74.15	
8.187	8.187 (1.000)	49	940792		258.57-	318.57	290.16	

* 79	1,4-Difluorobenzene		CAS #: 540-36-3					
10.067	10.067 (1.000)	114	1282730	25.0000	80.00-	120.00	100.00	
10.067	10.067 (1.000)	88	231038		0.00-	48.31	18.01	

* 108	Chlorobenzene-d5		CAS #: 3114-55-4					
15.099	15.099 (1.000)	117	1007208	25.0000	80.00-	120.00	100.00	
15.099	15.099 (1.000)	82	644818		33.54-	93.54	64.02	

\$ 71	1,2-Dichloroethane-d4		CAS #: 17060-07-0					
9.265	9.265 (1.132)	65	595790	22.9227	22.923	80.00-	120.00	100.00
9.265	9.265 (1.132)	67	315292		25.98-	85.98	52.92	

\$ 97	Toluene-d8		CAS #: 2037-26-5					
12.832	12.832 (1.275)	98	1168720	25.0316	25.032	80.00-	120.00	100.00
12.832	12.832 (1.275)	70	125023		0.00-	41.05	10.70	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT (REL RT)	MASS	RESPONSE	(PPEV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

\$ 97 Toluene-d8 (continued)

12.832	12.832 (1.275)	100	769917			36.04- 96.04	65.88
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\$ 122 Bromofluorobenzene

CAS #: 460-00-4

16.675	16.675 (1.104)	174	637844	25.2051	25.205	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	1030318			132.47- 192.47	161.53
16.675	16.675 (1.104)	176	622270			64.80- 124.80	97.56

1 Propylene

CAS #: 115-07-1

2.353	2.380 (0.287)	41	2152808	49.7831	49.783	80.00- 120.00	100.00
2.353	2.380 (0.287)	42	1430422			36.96- 96.96	66.44
2.353	2.380 (0.287)	39	1442749			37.69- 97.69	67.02

2 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.408	2.436 (0.294)	85	2761051	47.9987	47.999	80.00- 120.00	100.00
2.408	2.436 (0.294)	87	900917			1.62- 61.62	32.63

3 Freon 114

CAS #: 76-14-2

2.546	2.574 (0.311)	135	2767600	50.3051	50.305	80.00- 120.00	100.00
2.546	2.574 (0.311)	137	890788			1.78- 61.78	32.19

4 Chloromethane

CAS #: 74-87-3

2.684	2.712 (0.328)	50	2512416	48.3748	48.375	80.00- 120.00	100.00
2.684	2.712 (0.328)	52	771157			0.00- 59.51	30.69

5 Vinyl Chloride

CAS #: 75-01-4

2.850	2.878 (0.348)	62	2167935	51.3335	51.334	80.00- 120.00	100.00
2.850	2.906 (0.348)	64	620442			0.00- 59.15	28.62

6 1,3-Butadiene

CAS #: 106-99-0

2.823	2.850 (0.345)	54	2072918	49.4490	49.449	80.00- 120.00	100.00
2.823	2.850 (0.345)	39	2385316			92.11- 152.11	115.07

7 Bromomethane

CAS #: 74-83-9

3.376	3.403 (0.412)	94	1239389	49.3998	49.400	80.00- 120.00	100.00
3.376	3.403 (0.412)	96	1179652			65.57- 125.57	95.18

8 Chloroethane

CAS #: 75-00-3

3.514	3.542 (0.429)	64	1047417	46.7699	46.770	80.00- 120.00	100.00
3.514	3.542 (0.429)	49	340182			1.83- 61.83	32.48
3.514	3.542 (0.429)	66	296748			0.00- 57.39	28.33

9 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.818	3.846 (0.466)	101	2829938	48.8028	48.803	80.00- 120.00	100.00
3.818	3.846 (0.466)	103	1877163			34.80- 94.80	66.33

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== ===== =====

13 Ethanol CAS #: 64-17-5
 4.177 4.205 (0.510) 45 895597 50.3430 50.343 80.00- 120.00 100.00
 4.177 4.205 (0.510) 43 175462 0.00- 49.45 19.59
 4.177 4.205 (0.510) 46 394090 11.95- 71.95 44.00

19 Freon 113 CAS #: 76-13-1
 4.648 4.675 (0.568) 151 1976895 55.6803 55.680 80.00- 120.00 100.00
 4.648 4.675 (0.568) 153 1245481 33.78- 93.78 63.00
 4.648 4.675 (0.568) 101 2584525 97.35- 157.35 130.74

20 1,1-Dichloroethene CAS #: 75-35-4
 4.675 4.703 (0.571) 61 2871112 51.8605 51.860 80.00- 120.00 100.00
 4.675 4.703 (0.571) 96 1404515 18.87- 78.87 48.92
 4.675 4.703 (0.571) 98 927124 0.27- 60.27 32.29

22 Acetone CAS #: 67-64-1
 4.841 4.841 (0.591) 58 948927 45.9509 45.951 80.00- 120.00 100.00
 4.841 4.841 (0.591) 43 3397318 327.94- 387.94 358.02

26 2-Propanol CAS #: 67-63-0
 5.035 5.062 (0.615) 45 4039689 44.8859 44.886 80.00- 120.00 100.00
 5.035 5.062 (0.615) 43 783774 0.00- 49.24 19.40
 5.035 5.062 (0.615) 59 118326 0.00- 33.25 2.93

25 Carbon Disulfide CAS #: 75-15-0
 5.007 5.035 (0.612) 76 3747881 49.1715 49.172 80.00- 120.00 100.00

28 3-Chloropropene CAS #: 107-05-1
 5.311 5.339 (0.649) 76 628085 48.7735 48.773 80.00- 120.00 100.00
 5.311 5.339 (0.649) 41 3049132 480.64- 540.64 485.46

29 Methylene Chloride CAS #: 75-09-2
 5.560 5.588 (0.679) 49 2566101 49.4222 49.422 80.00- 120.00 100.00
 5.560 5.588 (0.679) 84 1117553 13.96- 73.96 43.55
 5.560 5.588 (0.679) 51 773725 0.00- 59.58 30.15

31 MTBE CAS #: 1634-04-4
 5.892 5.919 (0.720) 73 1988893 49.0985 49.098 80.00- 120.00 100.00
 5.892 5.919 (0.720) 57 725931 8.43- 68.43 36.50
 5.892 5.919 (0.720) 41 744949 10.34- 70.34 37.46

32 trans-1,2-Dichloroethene CAS #: 156-60-5
 5.947 5.975 (0.726) 96 1342340 48.6256 48.626 80.00- 120.00 100.00
 5.947 5.975 (0.726) 61 2527625 158.45- 218.45 188.30
 5.947 5.975 (0.726) 98 855028 32.40- 92.40 63.70

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
 == == ===== == ===== ===== =====

38 Hexane CAS #: 110-54-3
 6.279 6.306 (0.767) 57 3187382 45.9224 45.922 80.00- 120.00 100.00
 6.279 6.306 (0.767) 43 2439170 46.14- 106.14 76.53
 6.279 6.306 (0.767) 86 369691 0.00- 41.50 11.60

43 1,1-Dichloroethane CAS #: 75-34-3
 6.721 6.749 (0.821) 63 2689112 48.7037 48.704 80.00- 120.00 100.00
 6.721 6.749 (0.821) 65 783273 0.00- 59.13 29.13

53 2-Butanone CAS #: 78-93-3
 7.800 7.800 (0.953) 72 519392 48.6940 48.694 80.00- 120.00 100.00
 7.800 7.800 (0.953) 43 4129717 758.62- 818.62 795.11
 7.800 7.800 (0.953) 57 263398 23.20- 83.20 50.71

52 cis-1,2-Dichloroethene CAS #: 156-59-2
 7.772 7.772 (0.949) 61 2030415 47.3479 47.348 80.00- 120.00 100.00
 7.772 7.772 (0.949) 96 1098986 27.56- 87.56 54.13
 7.772 7.772 (0.949) 98 720546 5.77- 65.77 35.49

56 Tetrahydrofuran CAS #: 109-99-9
 8.187 8.187 (1.000) 42 2390501 43.2150 43.215 80.00- 120.00 100.00
 8.187 8.187 (1.000) 71 461253 0.00- 48.31 19.30
 8.187 8.187 (1.000) 72 486071 0.00- 49.73 20.33

58 Chloroform CAS #: 67-66-3
 8.325 8.352 (1.017) 83 2029670 51.3152 51.315 80.00- 120.00 100.00
 8.325 8.352 (1.017) 85 1308383 34.30- 94.30 64.46

62 1,1,1-Trichloroethane CAS #: 71-55-6
 8.574 8.601 (1.047) 97 2098740 48.7171 48.717 80.00- 120.00 100.00
 8.574 8.601 (1.047) 99 1341538 34.11- 94.11 63.92

61 Cyclohexane CAS #: 110-82-7
 8.546 8.574 (1.044) 84 1455057 49.7342 49.734 80.00- 120.00 100.00
 8.546 8.574 (1.044) 56 2809649 166.80- 226.80 193.10
 8.546 8.574 (1.044) 41 1714158 86.14- 146.14 117.81

63 Vinyl Acetate CAS #: 108-05-4
 6.777 6.804 (0.828) 86 320269 49.7995 49.799 80.00- 120.00 100.00
 6.777 6.804 (0.828) 43 5583027 1767.50-1827.50 1743.23
 6.777 6.804 (0.828) 42 412840 104.58- 164.58 128.90

65 Carbon Tetrachloride CAS #: 56-23-5
 8.795 8.823 (1.074) 119 1870856 49.8464 49.846 80.00- 120.00 100.00
 8.795 8.823 (1.074) 117 1950456 72.65- 132.65 104.25

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

68	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.237	9.265	(1.128)	57	7746348	46.9638	46.964	80.00-	120.00	100.00	
9.237	9.265	(1.128)	56	2478469			2.91-	62.91	32.00	
9.237	9.265	(1.128)	41	2288769			0.00-	59.75	29.55	

69	Benzene					CAS #:	71-43-2			
9.237	9.237	(0.918)	78	2841623	49.3377	49.338	80.00-	120.00	100.00	
9.237	9.237	(0.918)	77	649087			0.00-	53.04	22.84	

72	1,2-Dichloroethane					CAS #:	107-06-2			
9.403	9.431	(0.934)	62	1920188	49.0116	49.012	80.00-	120.00	100.00	
9.403	9.431	(0.934)	64	572021			0.57-	60.57	29.79	

75	Heptane					CAS #:	142-82-5			
9.624	9.652	(0.956)	100	353311	45.1389	45.139	80.00-	120.00	100.00	
9.624	9.624	(0.956)	43	3610718			1063.83-	1123.83	1021.97	
9.624	9.624	(0.956)	71	1013643			257.42-	317.42	286.90	

80	Trichloroethene					CAS #:	79-01-6			
10.482	10.482	(1.041)	95	1184073	49.0428	49.043	80.00-	120.00	100.00	
10.482	10.482	(1.041)	130	1109078			63.04-	123.04	93.67	
10.482	10.482	(1.041)	97	769722			33.91-	93.91	65.01	

82	1,2-Dichloropropane					CAS #:	78-87-5			
10.979	11.007	(1.091)	63	1171811	46.7075	46.708	80.00-	120.00	100.00	
10.979	11.007	(1.091)	62	876439			44.21-	104.21	74.79	
10.979	11.007	(1.091)	41	1099989			62.29-	122.29	93.87	

84	1,4-Dioxane					CAS #:	123-91-1			
11.200	11.228	(1.113)	88	628141	48.6532	48.653	80.00-	120.00	100.00	
11.200	11.228	(1.113)	58	698741			85.60-	145.60	111.24	
11.200	11.228	(1.113)	57	233040			11.42-	71.42	37.10	

85	Bromodichloromethane					CAS #:	75-27-4			
11.532	11.560	(1.146)	83	1850533	51.8840	51.884	80.00-	120.00	100.00	
11.532	11.560	(1.146)	85	1153593			33.49-	93.49	62.34	

90	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.445	12.445	(1.236)	75	1294112	50.2892	50.289	80.00-	120.00	100.00	
12.445	12.445	(1.236)	77	422814			0.57-	60.57	32.67	
12.445	12.445	(1.236)	39	1355991			71.44-	131.44	104.78	

91	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.721	12.749	(1.264)	58	1201993	48.7012	48.701	80.00-	120.00	100.00	
12.721	12.749	(1.264)	43	3933835			296.95-	356.95	327.28	
12.721	12.749	(1.264)	85	342371			0.00-	57.61	28.48	

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
99 Toluene						CAS #:	108-88-3			
12.942	12.942	(1.286)	91	2863680	51.7737	51.774	80.00-	120.00	100.00	
12.942	12.942	(1.286)	92	1727628			29.35-	89.35	60.33	

100 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.468	13.468	(0.892)	75	1479043	52.2613	52.261	80.00-	120.00	100.00	
13.468	13.468	(0.892)	77	464150			2.73-	62.73	31.38	
13.468	13.468	(0.892)	39	1372106			62.94-	122.94	92.77	

101 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.744	13.772	(0.910)	97	948002	49.6172	49.617	80.00-	120.00	100.00	
13.744	13.772	(0.910)	99	585895			31.68-	91.68	61.80	
13.744	13.744	(0.910)	83	785750			52.67-	112.67	82.88	

102 Tetrachloroethene						CAS #:	127-18-4			
13.799	13.799	(0.914)	166	1128692	47.2349	47.235	80.00-	120.00	100.00	
13.799	13.799	(0.914)	129	969725			55.35-	115.35	85.92	
13.799	13.799	(0.914)	131	922327			49.53-	109.53	81.72	

103 2-Hexanone						CAS #:	591-78-6			
14.131	14.131	(0.936)	58	1583196	44.3167	44.317	80.00-	120.00	100.00	
14.131	14.131	(0.936)	43	3784917			206.50-	266.50	239.07	
14.131	14.131	(0.936)	100	220831			0.00-	42.78	13.95	

105 Dibromochloromethane						CAS #:	124-48-1			
14.297	14.297	(0.947)	129	1595725	51.3031	51.303	80.00-	120.00	100.00	
14.297	14.297	(0.947)	127	1229513			48.77-	108.77	77.05	

106 1,2-Dibromoethane						CAS #:	106-93-4			
14.463	14.463	(0.958)	107	1425572	48.8178	48.818	80.00-	120.00	100.00	
14.463	14.463	(0.958)	109	1321011			63.76-	123.76	92.67	

109 Chlorobenzene						CAS #:	108-90-7			
15.154	15.154	(1.004)	112	2155281	46.7262	46.726	80.00-	120.00	100.00	
15.154	15.154	(1.004)	114	682924			2.77-	62.77	31.69	
15.154	15.154	(1.004)	77	1376435			35.46-	95.46	63.86	

111 Ethyl Benzene						CAS #:	100-41-4			
15.265	15.265	(1.011)	106	1157096	51.0455	51.045	80.00-	120.00	100.00	
15.265	15.265	(1.011)	91	4024581			322.22-	382.22	347.82	

113 m,p-Xylene						CAS #:	108-38-3			
15.431	15.431	(1.022)	106	1458073	49.4059	49.406	80.00-	120.00	100.00	
15.431	15.431	(1.022)	91	3351233			202.98-	262.98	229.84	

114 o-Xylene						CAS #:	95-47-6			
15.956	15.956	(1.057)	106	1351953	48.4404	48.440	80.00-	120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
114 o-Xylene (continued)									
15.956	15.956	(1.057)	91	3321490			217.04- 277.04	245.68	

115 Styrene CAS #: 100-42-5									
16.011	16.011	(1.060)	104	2112006	51.7731	51.773	80.00- 120.00	100.00	
16.011	16.011	(1.060)	78	1300548			30.06- 90.06	61.58	

118 Bromoform CAS #: 75-25-2									
16.260	16.260	(1.077)	173	1409129	52.8632	52.863	80.00- 120.00	100.00	
16.260	16.260	(1.077)	171	722939			21.52- 81.52	51.30	

123 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.896	16.896	(1.119)	83	2031996	46.6129	46.613	80.00- 120.00	100.00	
16.896	16.896	(1.119)	85	1330224			34.80- 94.80	65.46	

126 4-Ethyltoluene CAS #: 622-96-8									
17.062	17.062	(1.130)	105	4819998	50.2981	50.298	80.00- 120.00	100.00	
17.062	17.062	(1.130)	120	1413434			0.00- 59.05	29.32	

128 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.145	17.145	(1.135)	105	3912962	48.7005	48.700	80.00- 120.00	100.00	
17.145	17.145	(1.135)	120	1844078			16.58- 76.58	47.13	

131 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.532	17.532	(1.161)	105	4317263	50.0447	50.045	80.00- 120.00	100.00	
17.532	17.532	(1.161)	120	1895398			12.54- 72.54	43.90	

138 1,3-Dichlorobenzene CAS #: 541-73-1									
17.836	17.836	(1.181)	146	2612981	46.2093	46.209	80.00- 120.00	100.00	
17.836	17.836	(1.181)	148	1643735			33.12- 93.12	62.91	
17.836	17.836	(1.181)	111	1204535			15.78- 75.78	46.10	

141 1,4-Dichlorobenzene CAS #: 106-46-7									
17.919	17.919	(1.187)	146	2139056	47.8367	47.837	80.00- 120.00	100.00	
17.919	17.919	(1.187)	148	1323325			34.33- 94.33	61.86	
17.919	17.919	(1.187)	111	996952			18.49- 78.49	46.61	

143 alpha-Chlorotoluene CAS #: 100-44-7									
18.057	18.057	(1.196)	91	4175704	55.9713	55.971	80.00- 120.00	100.00	
18.057	18.057	(1.196)	126	697966			0.00- 47.06	16.71	

146 1,2-Dichlorobenzene CAS #: 95-50-1									
18.279	18.279	(1.211)	146	2550448	43.4806	43.480	80.00- 120.00	100.00	
18.279	18.279	(1.211)	148	1645217			31.87- 91.87	64.51	
18.279	18.279	(1.211)	111	1224205			16.29- 76.29	48.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

154	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.578	19.578	(1.297)	180	1768119	42.8636	42.864	80.00- 120.00	100.00	
19.578	19.578	(1.297)	182	1662477			64.73- 124.73	94.03	

155	Hexachlorobutadiene					CAS #: 87-68-3			
19.661	19.661	(1.302)	225	1414471	41.3795	41.380	80.00- 120.00	100.00	
19.661	19.661	(1.302)	223	873654			31.90- 91.90	61.77	

124	Propylbenzene					CAS #: 103-65-1			
16.924	16.924	(1.121)	91	5718030	51.5729	51.573	80.00- 120.00	100.00	
16.924	16.924	(1.121)	120	1168994			0.00- 50.53	20.44	
16.924	16.924	(1.121)	105	205014			0.00- 33.52	3.59	

119	Cumene					CAS #: 98-82-8			
16.426	16.426	(1.088)	105	4395200	51.5438	51.544	80.00- 120.00	100.00	
16.426	16.426	(1.088)	120	1126907			0.00- 55.50	25.64	
16.426	16.426	(1.088)	51	887259			0.00- 50.84	20.19	

156	Naphthalene					CAS #: 91-20-3			
19.744	19.744	(1.308)	128	4989699	40.7489	40.749	80.00- 120.00	100.00	
19.744	19.744	(1.308)	127	647139			0.00- 42.90	12.97	

30	Isopentane					CAS #: 78-78-4			
3.514	3.542	(0.429)	43	3298705	44.9910	44.991	80.00- 120.00	100.00	
3.514	3.542	(0.429)	57	1974611			30.33- 90.33	59.86	
3.514	3.542	(0.429)	72	160032			0.00- 34.69	4.85	

21	Butane					CAS #: 106-97-8			
2.767	2.795	(0.338)	58	566999	47.4045	47.404	80.00- 120.00	100.00	
2.767	2.795	(0.338)	43	4462744			773.30- 833.30	787.08	

96	Methyl Cyclohexane					CAS #: 108-87-2			
10.703	10.703	(1.063)	83	1683284	49.3027	49.303	80.00- 120.00	100.00	
10.703	10.730	(1.063)	98	808583			20.58- 80.58	48.04	
10.703	10.703	(1.063)	55	2431984			125.23- 185.23	144.48	

Report Date: 30-May-2007 15:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 30-MAY-2007

Lab File ID: 5053006.d

Calibration Time: 10:20

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: JG

Method File: /chem/msd5.i/5-30may.b/t14q529a.m

Misc Info: 200ppbv - 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	395291	237175	553407	324229	-17.98
79 1,4-Difluorobenze	1596346	957808	2234884	1282730	-19.65
108 Chlorobenzene-d5	1223968	734381	1713555	1007208	-17.71

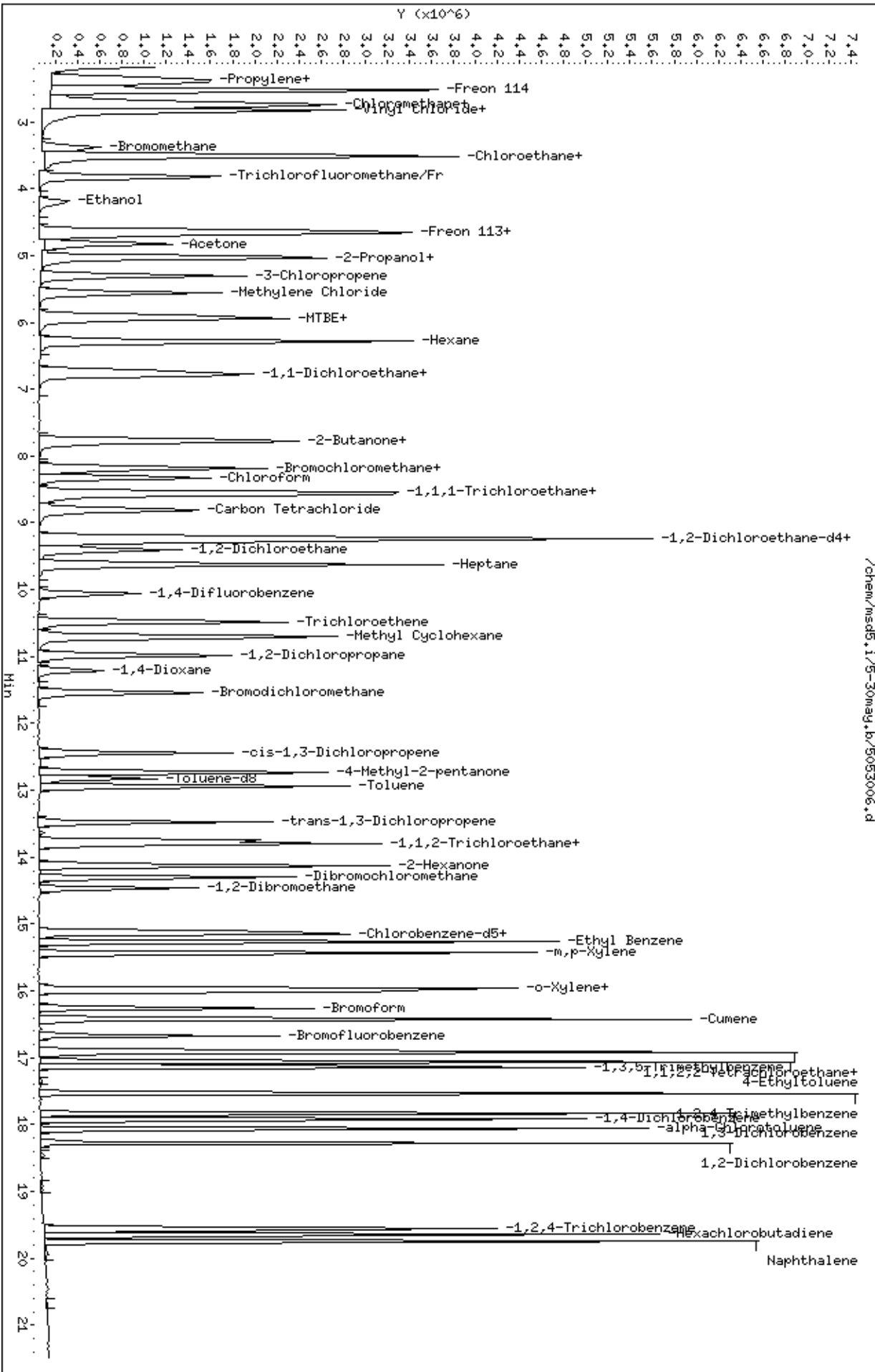
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
57 Bromochloromethan	8.21	7.88	8.54	8.19	-0.34
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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.



/chem/msds.1/5-30may.b/5053006.d

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	39.71
75	30.0 - 60.0% of mass 95	54.31
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.60
173	Less than 2.0% of mass 174	(5.48) ¹
174	Greater than 50.0% of mass 95	55.08
175	5.0 - 9.0% of mass 174	0.51 (2.38) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(16.17) ¹
177	5.0 - 9.0% of mass 176	(6.29) ²

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

Verify 176/174 m/z Ratio: $\frac{16.17}{55.08} = 0.2936$ $\frac{6.29}{55.08} = 0.1142$

BFB Injection Date: 5/30/07
 BFB Injection Time: 0958
 BFB File ID: 5053004
 Tekmar Purge Flow: 12.4 mL/min
 Vacuum: 6.31 x 10⁻⁶ Torr
 IS/S Std #: 1487-259 Exp. Date: 8/10/07
 BCM: 305201
 1,4-DFB: 1596346
 CB-d5: 1223068
 Verified CCV IS vs ICAL mid-point (-40%^d)
 NOAH Cart #: 9/7 File #: F052514/1052310

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \frac{\text{Conc.}_{\text{std}}}{\text{Conc.}_{\text{sample}}} = \frac{(1440824)}{(1596346)} \times \frac{(25)}{(0.90222)} = 24.798$$

Reported Result: 24.798

File ID: 5053005
 Compound: 461-DB
 Initials: DL

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
X	5053001	BFB Time Check	2480	50mg	2µL	1.00	DL	5/30/07	0916	DL	
X	02	BFB Time Check				1.00	DL	5/30/07	0929	DL	
X	03	BFB Time Check				1.00	DL	5/30/07	0943	DL	
X	04	BFB Time Check				1.00	DL	5/30/07	0958	DL	adjusted parameters
X	05	CV # 1487-288	2009	570 psig	50 µL				1020	DL	ACEE OK
X	06	CV # 1487-272							1047	DL	
X	07	CV # 1487-272							1115	DL	
X	08	Lab Blank	13073	Fluorid	200 µL	1.00	DL		1205	DL	
X	09	0705435A-65A	4001	0.0745 psig	200 µL	1.34			1300	DL	

Signature: [Signature] Date: 5/30/07
 Revision 12/2006 Page 205

Report Date: 29-May-2007 14:40

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-29may.b/5052909.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 29-MAY-2007 14:47
 Operator : JG Inst ID: msd5.i
 Smp Info : BFB Tune Check
 Misc Info : 2ul #843-2980;50 ng
 Comment :
 Method : /var/chem/msd5.i/5-29may.b/bfb30.m
 Meth Date : 29-May-2007 14:40 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====

CAS #: 460-00-4

1 bfb								
3.860	3.900	-0.040	95	1533988			100.00- 100.00	100.00
3.860	3.900	-0.040	50	589973			15.00- 40.00	38.46
3.860	3.900	-0.040	75	819322			30.00- 60.00	53.41
3.860	3.900	-0.040	96	98444			5.00- 9.00	6.42
3.860	3.900	-0.040	173	7499			0.00- 2.00	0.83
3.860	3.900	-0.040	174	907809			50.00- 100.00	59.18
3.860	3.900	-0.040	175	64122			5.00- 9.00	7.06
3.860	3.900	-0.040	176	878321			95.00- 101.00	96.75
3.860	3.900	-0.040	177	56933			5.00- 9.00	6.48

Data File: /var/chem/msd5.i/5-29may.b/5052909.d

Page 1

Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

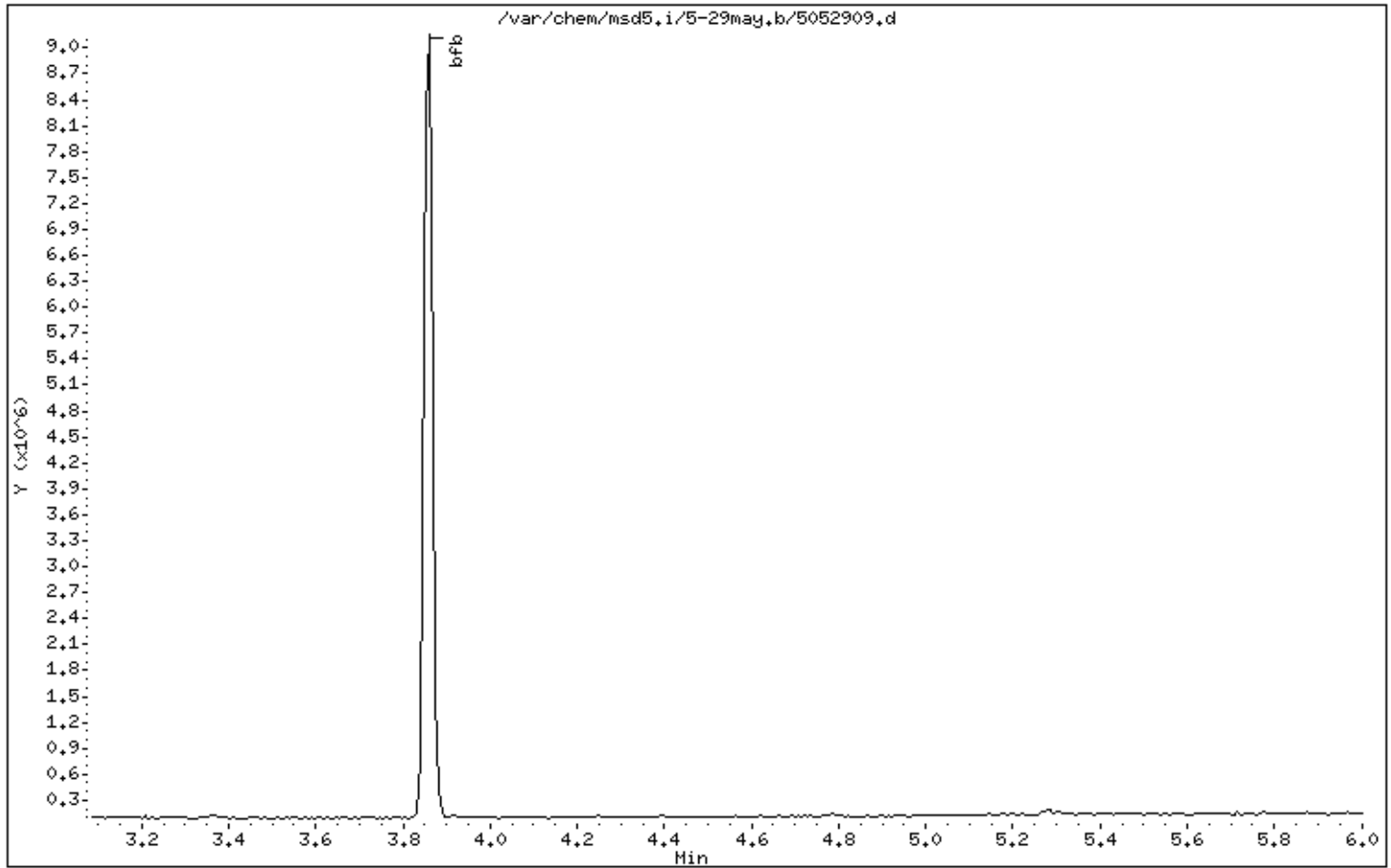
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

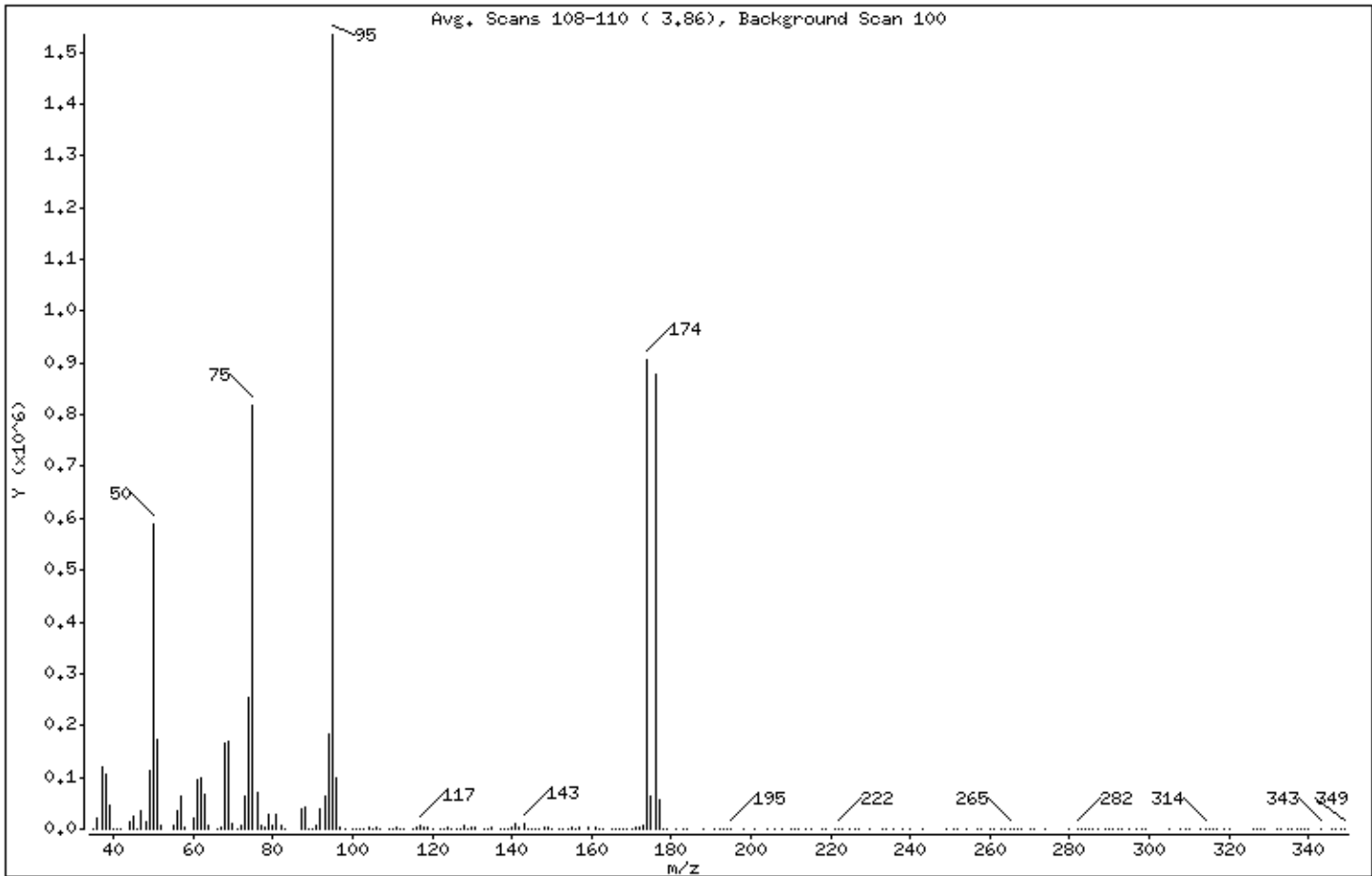
Volume Injected (uL): 1.0

Operator: JG

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	38.46
75	30.00 - 60.00% of mass 95	53.41
96	5.00 - 9.00% of mass 95	6.42
173	Less than 2.00% of mass 174	0.49 (0.83)
174	50.00 - 100.00% of mass 95	59.18
175	5.00 - 9.00% of mass 174	4.18 (7.06)
176	95.00 - 101.00% of mass 174	57.26 (96.75)
177	5.00 - 9.00% of mass 176	3.71 (6.48)

Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00

Data File: 5052909.d

Spectrum: Avg. Scans 108-110 (3.86), Background Scan 100

Location of Maximum: 95.00

Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35,00	479	100,00	176	165,00	605	261,00	165
36,00	22232	101,00	382	166,00	317	263,00	59
37,00	118808	102,00	409	167,00	163	264,00	85
38,00	104848	103,00	1002	168,00	1385	265,00	457
39,00	45304	104,00	3980	169,00	692	266,00	73
40,00	1683	105,00	771	170,00	1428	267,00	70
41,00	826	106,00	3461	171,00	1929	268,00	455
42,00	63	107,00	522	172,00	2697	270,00	81
44,00	12641	109,00	505	173,00	7499	271,00	117
45,00	23448	110,00	683	174,00	907776	274,00	287
46,00	1365	111,00	1785	175,00	64120	280,00	416
47,00	36048	112,00	1016	176,00	878272	282,00	1234
48,00	13962	113,00	811	177,00	56928	283,00	166
49,00	111736	115,00	1590	178,00	813	284,00	135
50,00	589952	116,00	3772	179,00	275	285,00	98
51,00	173760	117,00	7445	181,00	181	286,00	120
52,00	7870	118,00	4285	183,00	97	287,00	589
55,00	5532	119,00	4130	184,00	162	289,00	71
56,00	34816	120,00	1072	188,00	80	290,00	332
57,00	62184	122,00	144	191,00	206	291,00	140
58,00	3043	123,00	735	192,00	494	292,00	129
60,00	20064	124,00	1969	193,00	130	293,00	363
61,00	96184	125,00	311	194,00	388	295,00	56
62,00	98712	126,00	1634	195,00	615	297,00	137
63,00	67864	127,00	1282	198,00	237	298,00	17
64,00	6220	128,00	5579	201,00	309	299,00	319
66,00	330	129,00	1655	204,00	214	305,00	99
67,00	2772	130,00	4538	206,00	186	308,00	298
68,00	164864	131,00	2085	208,00	10	309,00	171
69,00	169664	133,00	759	210,00	197	310,00	216
70,00	9514	134,00	679	211,00	425	313,00	61
71,00	478	135,00	2066	212,00	156	314,00	406
72,00	7983	137,00	1448	214,00	397	315,00	254
73,00	62656	138,00	177	215,00	452	316,00	325
74,00	253440	139,00	539	218,00	90	317,00	79

Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00

Data File: 5052909.d

Spectrum: Avg. Scans 108-110 (3.86), Background Scan 100

Location of Maximum: 95.00

Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	819264	140.00	2098	219.00	257	319.00	60
76.00	71520	141.00	11134	221.00	160	320.00	311
77.00	6450	142.00	2300	222.00	399	326.00	208
78.00	1931	143.00	11275	223.00	378	327.00	378
79.00	29040	144.00	1040	225.00	247	328.00	104
80.00	8677	145.00	1043	226.00	29	329.00	56
81.00	28520	146.00	1538	227.00	144	332.00	125
82.00	5512	147.00	488	230.00	290	333.00	107
83.00	1215	148.00	3775	233.00	38	335.00	197
87.00	38280	149.00	1829	234.00	171	336.00	220
88.00	42544	150.00	1608	236.00	200	337.00	171
89.00	343	152.00	1035	238.00	112	338.00	113
90.00	369	153.00	880	240.00	137	339.00	342
91.00	5755	154.00	1506	243.00	53	340.00	77
92.00	38480	155.00	2500	249.00	158	343.00	459
93.00	63096	156.00	252	251.00	308	346.00	7
94.00	181760	157.00	2201	252.00	349	347.00	415
95.00	1533952	159.00	1839	254.00	343	348.00	96
96.00	98440	161.00	1892	257.00	254	349.00	264
97.00	3364	162.00	299	258.00	62		
98.00	177	163.00	642	260.00	79		

Report Date: 30-May-2007 09:51

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-30may.b/5053004.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 30-MAY-2007 09:58
 Operator : JG Inst ID: msd5.i
 Smp Info : BFB Tune Check
 Misc Info : 2ul #843-2980;50 ng
 Comment :
 Method : /var/chem/msd5.i/5-30may.b/bfb30.m
 Meth Date : 30-May-2007 09:08 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 FINAL

RT EXP RT DLT RT MASS RESPONSE (ug/L) (ug/L) TARGET RANGE RATIO
 == =====

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	1685078			100.00- 100.00	100.00
3.853	3.900	-0.047	50	669141			15.00- 40.00	39.71
3.853	3.900	-0.047	75	915233			30.00- 60.00	54.31
3.853	3.900	-0.047	96	111228			5.00- 9.00	6.60
3.853	3.900	-0.047	173	9118			0.00- 2.00	0.98
3.853	3.900	-0.047	174	928165			50.00- 100.00	55.08
3.853	3.900	-0.047	175	67973			5.00- 9.00	7.32
3.853	3.900	-0.047	176	892641			95.00- 101.00	96.17
3.853	3.900	-0.047	177	56128			5.00- 9.00	6.29

Date : 30-MAY-2007 09:58

Client ID: BFB

Instrument: msd5.i

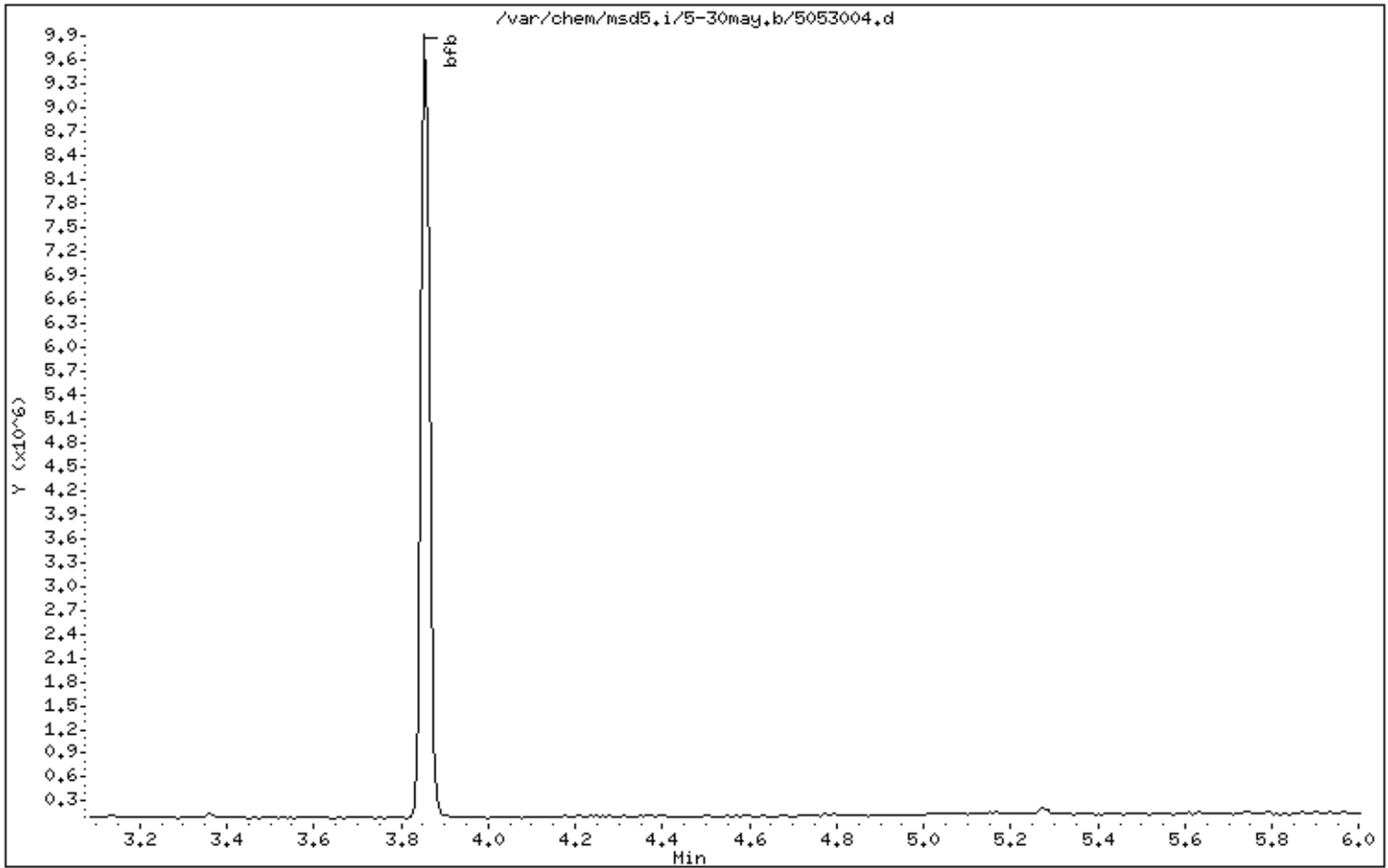
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Date : 30-MAY-2007 09:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

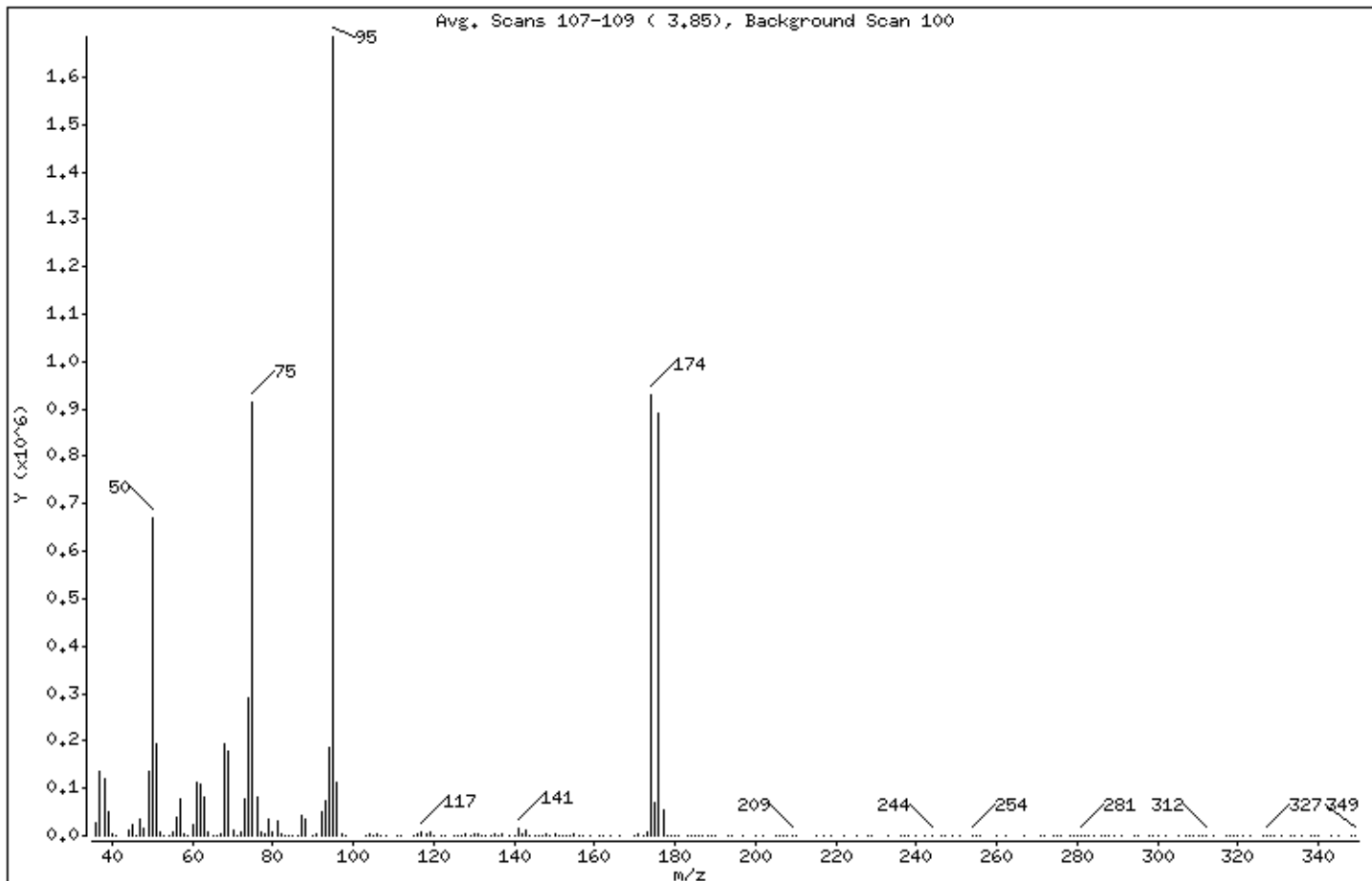
Volume Injected (uL): 1.0

Operator: JG

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	39.71
75	30.00 - 60.00% of mass 95	54.31
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.54 (0.98)
174	50.00 - 100.00% of mass 95	55.08
175	5.00 - 9.00% of mass 174	4.03 (7.32)
176	95.00 - 101.00% of mass 174	52.97 (96.17)
177	5.00 - 9.00% of mass 176	3.33 (6.29)

Date : 30-MAY-2007 09:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00

Data File: 5053004.d

Spectrum: Avg. Scans 107-109 (3.85), Background Scan 100

Location of Maximum: 95.00

Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	25944	95.00	1684992	166.00	596	271.00	15
37.00	137152	96.00	111224	170.00	1167	272.00	237
38.00	118696	97.00	3638	171.00	1975	274.00	101
39.00	49328	98.00	430	172.00	902	275.00	157
40.00	2096	103.00	174	173.00	9118	276.00	165
41.00	759	104.00	5752	174.00	928128	278.00	102
44.00	10891	105.00	1549	175.00	67968	279.00	207
45.00	24264	106.00	5611	176.00	892608	280.00	101
46.00	1908	107.00	1661	177.00	56128	281.00	313
47.00	34856	108.00	252	178.00	1315	282.00	42
48.00	16920	111.00	576	179.00	313	283.00	10
49.00	134336	112.00	383	180.00	445	284.00	79
50.00	669120	115.00	347	181.00	206	286.00	58
51.00	193472	116.00	2282	183.00	122	287.00	186
52.00	7811	117.00	8210	184.00	51	288.00	195
53.00	482	118.00	5232	185.00	227	289.00	124
54.00	611	119.00	7480	186.00	124	291.00	58
55.00	8117	120.00	493	187.00	274	294.00	163
56.00	38064	122.00	342	188.00	415	295.00	30
57.00	75616	123.00	880	189.00	360	298.00	160
58.00	2646	125.00	918	190.00	195	299.00	144
59.00	438	126.00	993	193.00	58	300.00	123
60.00	24392	127.00	218	194.00	283	302.00	68
61.00	113256	128.00	3923	197.00	181	305.00	170
62.00	109360	129.00	1561	200.00	283	307.00	166
63.00	80608	130.00	3883	202.00	65	308.00	203
64.00	6229	131.00	2316	205.00	198	309.00	51
65.00	456	132.00	387	206.00	460	310.00	246
66.00	85	133.00	570	207.00	126	311.00	189
67.00	4266	134.00	1051	208.00	642	312.00	453
68.00	192064	135.00	2713	209.00	798	314.00	71
69.00	179712	136.00	60	210.00	110	317.00	327
70.00	10052	137.00	2000	215.00	191	318.00	51
71.00	592	139.00	322	217.00	63	319.00	262
72.00	8074	140.00	1267	219.00	346	320.00	127

Date : 30-MAY-2007 09:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00

Data File: 5053004.d

Spectrum: Avg. Scans 107-109 (3.85), Background Scan 100

Location of Maximum: 95.00

Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	77424	141.00	14929	222.00	248	321.00	115
74.00	291008	142.00	2023	225.00	326	323.00	291
75.00	915200	143.00	13383	228.00	144	326.00	5
76.00	81432	144.00	1009	229.00	439	327.00	645
77.00	7671	145.00	1289	233.00	138	328.00	342
78.00	3118	146.00	1376	236.00	138	329.00	294
79.00	33032	147.00	728	237.00	441	331.00	66
80.00	8628	148.00	3287	238.00	147	333.00	274
81.00	32680	149.00	1801	240.00	302	334.00	420
82.00	5532	150.00	2308	242.00	122	336.00	64
83.00	727	151.00	236	244.00	943	338.00	271
84.00	66	152.00	722	246.00	212	339.00	481
85.00	6	153.00	1569	247.00	423	340.00	252
86.00	1674	154.00	834	249.00	253	343.00	239
87.00	41040	155.00	3631	251.00	180	345.00	58
88.00	35784	156.00	264	254.00	639	348.00	241
90.00	753	157.00	1930	255.00	334	349.00	61
91.00	3536	159.00	1746	256.00	462		
92.00	49504	161.00	1409	260.00	211		
93.00	73072	162.00	246	262.00	61		
94.00	186752	164.00	407	267.00	629		

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 #: _____ 0705451
of pages (Including Cover): _____ 1

6/7/2007

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

The following discrepancy has been observed:

There was a significant difference (greater than 7.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) for sample 051707 TB. Unless otherwise notified, ATL will proceed with the analysis using the vacuum measured in the laboratory to calculate results.

Your prompt response is appreciated.



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

Page ___ of ___

Project Manager KAREN SWARTZ

Collected by: (Print and Sign) KEVIN SKERRY Kevin Skerry

Company 651 CONSULTANTS, INC Email skerry@651consultants.com

Address 455 WILSON BLVD City BOSTON State CT Zip 06203

Phone (860) 368-5300 Fax (860) 368-5307

Project Info:

P.O. # _____

Project # 061140-8-1763

Project Name SPY SHEDS SURVEILLANCE

Turn Around Time:

Normal

Rush

LAB USE ONLY

Pressurized by: KS

Date: 9/29/07

Pressurization Gas: N₂ He

Canister Pressure/Vacuum

Initial Final Receipt Final (psi)

Lab ID	Field Sample ID (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Initial	Final	Receipt	Final (psi)
O1A	051707 AMS 4	22504	5/17/07	0724-1524	TO-15 + NHTHTRICURE	-30	-8	15/11/07	5.0/5.5
O2A	051707 AMS 4A	4204	5/17/07	0124-1524	TO-15 + NHTHTRICURE	-30	-8	10/04/07	4.0/4.5
O3A	051707 T8	25214	5/17/07	N/A	TO-15 + NHTHTRICURE	-30	-5	4/10/07	4.0/4.5
O4A	051707 AMS 6	436	5/17/07	0725-1524	TO-15 + NHTHTRICURE	-30	-7.5	5/10/07	5.0/5.5

Relinquished by: (signature) Kevin Skerry Date/Time 5/17/07 Received by: (signature) Kevin Skerry Date/Time 5/17/07 0850

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Notes: 4 PROBLEMS

2 CANISTERS

1 "T" CAN DAMAGED

SEND 300 & DATE PACKET TO KAREN SWARTZ

Lab Shipper Name FEBSZY Air Bill # 8611 Temp (°C) NA Condition Good Custody Seals Intact? Yes No (None) Work Order # 0705451



AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0705451

Client	Phone	Date Promised: 06/05/07
Ms. Sarah Aldridge	860-368-5300	Date Completed: 6/4/07
GEI Consultants, Inc.		Date Received: 5/21/07
455 Winding Brook Dr. Suite 201	Fax	PO#: NR
Glastonbury, CT 06033	860-368-5307	Project#: 061140-8-1703 Bay Shore Southern Cell
Sales Rep: ANS		Total \$: \$ 1,308.00
		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	051707 AMS4	Modified TO-15	5/17/2007	7.5 "Hg	\$225.00
02A	051707 AMS99	Modified TO-15	5/17/2007	6.0 "Hg	\$225.00
03A	051707 TB	Modified TO-15	5/17/2007	4.6 psi	\$225.00
04A	051707 AMS6	Modified TO-15	5/17/2007	5.0 "Hg	\$225.00
05A	Lab Blank	Modified TO-15	NA	NA	\$0.00
06A	CCV	Modified TO-15	NA	NA	\$0.00
07A	LCS	Modified TO-15	NA	NA	\$0.00
Misc. Charges 6 Liter Summa Canister (100% Certified) (3) @ \$65.00 each.					\$195.00
6 Liter Summa Canister (1) @ \$50.00 each.					\$50.00
Fuel Surcharge (4) @ \$2.00 each.					\$8.00
Duplicate Sampling T (100% Certified) (1) @ \$5.00 each.					\$5.00
Blue Body Flow Controller (2) @ \$35.00 each.					\$70.00
Blue Body Flow Controller (100% Certified) (2) @ \$40.00 each.					\$80.00

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 Dr. Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

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

Sample Discrepancy Report

Identification

Initiated By: ANC

Date: 5/24/07

Discrepancy Type: I. II. III.
(circle all that apply)

Workorder(s) affected: 0705451

Sample(s) affected: 03A only

I. Sample Receipt Discrepancies

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

Narration not required:

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

Narration Required:

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

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

- COC was not received with samples.
- Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- Number of samples on the COC does not match the number of samples that were received.
- Samples were received expired.
- Sampling date / time (sulfur only) is not documented for some / any samples (circle one).
- Sample received with significant (pooling) volume of H₂O in the Tedlar Bag.
- Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- Samples for RSK-175 CO₂ analysis received preserved with HCl.
- Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- Canister was at ambient pressure at time of pressurization and (check all that apply): canister failed leak check on two manifolds, canister valve was open, brass nut was loose. Sample can / cannot be analyzed (circle one).
- Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- Trip Blank received at low vacuum (< 25"Hg).
- Tedlar Bag for Sulfur analysis has metal fitting.
- Incorrect sampling media / container for analysis requested.
- Sample was received at ≥ 10°C.
- Other (describe below)

Initials: _____
(if not the original initiator)

Date: _____

CSR Notified
(see section below)

Describe the Discrepancy: 03A client final vac = 5"Hg. Our receipt vac = 4.6psi.

III. Lab Discrepancies requiring Team Leader/CSR notification

Document in Analytical Notes of Lab Narrative

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

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

Initials: _____
(if not the original initiator)

Date: _____

CSR Notified
(see section below)

Team Lead Initials: _____

Date: _____

Describe the Discrepancy: _____

Client Services Use Only

Client Services Notification

CSR notified: BL

Date: 5/24/07 0745^o

Action:

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

CSR Initials: BL Date: 5-24-07

(Client pressurized Trip Blank)

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

Client Notification:

Person notified: _____ Date: _____

Comments: _____

Lab notified Name: _____ Date: _____

Additional Notifications

CSR notified: _____

Date: _____

Action:

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

CSR Initials: _____ Date: _____

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

Client Notification:

Person notified: _____ Date: _____

Comments: _____

Lab notified Name: _____ Date: _____

- Additional notifications attached.**

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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	Type
		ppbv	
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	Type
		ppbv	
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	



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Media Certification Report

Canister Number: 6L#22504 w/ 10.2ml + T
Can#: 51640-22504
Date : 04/24/07 23:25
Data File: u042428.d

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

Name	CAS	Type	Conc.	Units
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
Naphthalene	91-20-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		99.00	% Recovery
Toluene-d8	2037-26-5		100.00	% Recovery
4-Bromofluorobenzene	460-00-4		99.00	% Recovery



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Media Certification Report

Canister Number: F041232; 6L#4204 w/10.2ml+T:1
Date: 4/12/2007 22:15:55

Peak #	Quantification	CAS	Type	Conc.	Units
	1,1,1,2-Tetrafluoroethane		Not Found	0.000	ppbv
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 11		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Acrylonitrile		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	Chloroform		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	tert-Amyl Methyl ether		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	trans-1,3-Dichloropropene		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv



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Media Certification Report

Canister Number: F041232; 6L#4204 w/10.2ml+T:1

Date: 4/12/2007 22:15:55

Peak #	Quantification	CAS	Type	Conc.	Units
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	sec-Butylbenzene		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	Naphthalene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
1	Propylene	55255-50-0	Quantified	0.03079	ppbv
4	1,1-Difluoroethane	75-10-5	Quantified	0.04154	ppbv
5	Chloromethane	0-00-0	Quantified	0.01159	ppbv
9	Ethanol	55255-50-0	Quantified	0.1471	ppbv
10	Acrolein	55255-50-0	Quantified	0.000	ppbv
12	Carbon Disulfide	0-00-0	Quantified	0.02797	ppbv
13	Acetone	6156-78-1	Quantified	0.2234	ppbv
14	2-Propanol	55255-50-0	Quantified	0.09972	ppbv
14	2-Methylpentane	55255-50-0	Quantified	0.01427	ppbv
16	Methylene Chloride	75-09-2	Quantified	0.05665	ppbv
17	tert-Butyl alcohol	55255-50-0	Quantified	0.01437	ppbv
29	2-Butanone (Methyl Ethyl Ketone)	56053-19-1	Quantified	0.05151	ppbv
29	Ethyl Acetate	56053-19-1	Quantified	0.02978	ppbv
31	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
32	Tetrahydrofuran	150832-18-1	Quantified	0.05639	ppbv
33	Benzene	71-43-2	Quantified	0.02841	ppbv



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Media Certification Report

Canister Number: F041232; 6L#4204 w/10.2ml+T:1
Date: 4/12/2007 22:15:55

Peak #	Quantification	CAS	Type	Conc.	Units
34	1,2-Dichloroethane-d4	121505-32-6	Quantified	5.145	ppbv
36	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv
38	Methylcyclohexane	79880-69-6	Quantified	0.005480	ppbv
40	Dibromomethane	0-00-0	Quantified	0.000	ppbv
42	Toluene-D8	2037-26-5	Quantified	4.780	ppbv
43	Toluene	19892-19-4	Quantified	0.003018	ppbv
50	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
51	Bromofluorobenzene	1073-06-9	Quantified	4.770	ppbv



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Media Certification Report

Canister Number: F042106; 6L #25274 w/NE :1

Date: 4/21/2007 11:00:27

Peak #	Quantification	CAS	Type	Conc.	Units
	1,1,1,2-Tetrafluoroethane		Not Found	0.000	ppbv
	Freon 12		Not Found	0.000	ppbv
	Freon 114		Not Found	0.000	ppbv
	Butane		Not Found	0.000	ppbv
	Vinyl Chloride		Not Found	0.000	ppbv
	1,3-Butadiene		Not Found	0.000	ppbv
	Bromomethane		Not Found	0.000	ppbv
	Chloroethane		Not Found	0.000	ppbv
	Isopentane		Not Found	0.000	ppbv
	Vinyl bromide		Not Found	0.000	ppbv
	Freon 11		Not Found	0.000	ppbv
	Freon 113		Not Found	0.000	ppbv
	1,1-Dichloroethene		Not Found	0.000	ppbv
	2-Methylpentane		Not Found	0.000	ppbv
	3-Chloropropene		Not Found	0.000	ppbv
	Methyl Acetate		Not Found	0.000	ppbv
	tert-Butyl alcohol		Not Found	0.000	ppbv
	trans-1,2-Dichloroethene		Not Found	0.000	ppbv
	Methyl tert-butyl ether		Not Found	0.000	ppbv
	Hexane		Not Found	0.000	ppbv
	Isopropyl ether		Not Found	0.000	ppbv
	1,1-Dichloroethane		Not Found	0.000	ppbv
	Vinyl Acetate		Not Found	0.000	ppbv
	Chloroprene		Not Found	0.000	ppbv
	Ethyl-tert-butyl ether		Not Found	0.000	ppbv
	2,2-Dichloropropane		Not Found	0.000	ppbv
	cis-1,2-Dichloroethene		Not Found	0.000	ppbv
	Cyclohexane		Not Found	0.000	ppbv
	2,3-Dimethylpentane		Not Found	0.000	ppbv
	1,1,1-Trichloroethane		Not Found	0.000	ppbv
	Carbon Tetrachloride		Not Found	0.000	ppbv
	1,1-Dichloropropene		Not Found	0.000	ppbv
	2,2,4-Trimethylpentane		Not Found	0.000	ppbv
	tert-Amyl Methyl ether		Not Found	0.000	ppbv
	Heptane		Not Found	0.000	ppbv
	1,2-Dichloroethane		Not Found	0.000	ppbv
	Thiophene		Not Found	0.000	ppbv
	Trichloroethene		Not Found	0.000	ppbv
	Methylcyclohexane		Not Found	0.000	ppbv
	1,2-Dichloropropane		Not Found	0.000	ppbv
	1,4-Dioxane		Not Found	0.000	ppbv
	Bromodichloromethane		Not Found	0.000	ppbv
	cis-1,3-Dichloropropene		Not Found	0.000	ppbv
	4-Methyl-2-pentanone		Not Found	0.000	ppbv
	1,1,2-Trichloroethane		Not Found	0.000	ppbv
	Tetrachloroethene		Not Found	0.000	ppbv
	2-Hexanone		Not Found	0.000	ppbv
	Dibromochloromethane		Not Found	0.000	ppbv



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1-800-985-5955

Media Certification Report

Canister Number: F042106; 6L #25274 w/NE :1

Date: 4/21/2007 11:00:27

Peak #	Quantification	CAS	Type	Conc.	Units
	1,2-Dibromoethane (EDB)		Not Found	0.000	ppbv
	Chlorobenzene		Not Found	0.000	ppbv
	Ethyl Benzene		Not Found	0.000	ppbv
	1,1,1,2-Tetrachloroethane		Not Found	0.000	ppbv
	m,p-Xylene		Not Found	0.000	ppbv
	o-Xylene		Not Found	0.000	ppbv
	Styrene		Not Found	0.000	ppbv
	Bromoform		Not Found	0.000	ppbv
	Cumene		Not Found	0.000	ppbv
	1,1,2,2-Tetrachloroethane		Not Found	0.000	ppbv
	Propylbenzene		Not Found	0.000	ppbv
	1,2,3-Trichloropropane		Not Found	0.000	ppbv
	4-Ethyltoluene		Not Found	0.000	ppbv
	1,3,5-Trimethylbenzene		Not Found	0.000	ppbv
	tert-Butylbenzene		Not Found	0.000	ppbv
	1,2,4-Trimethylbenzene		Not Found	0.000	ppbv
	Pentachloroethane		Not Found	0.000	ppbv
	p-Cymene		Not Found	0.000	ppbv
	1,3-Dichlorobenzene		Not Found	0.000	ppbv
	1,4-Dichlorobenzene		Not Found	0.000	ppbv
	alpha-Chlorotoluene		Not Found	0.000	ppbv
	Indan		Not Found	0.000	ppbv
	Butylbenzene		Not Found	0.000	ppbv
	1,2-Dichlorobenzene		Not Found	0.000	ppbv
	Indene		Not Found	0.000	ppbv
	Hexachloroethane		Not Found	0.000	ppbv
	1,2-Dibromo-3-chloropropane		Not Found	0.000	ppbv
	1,2,4-Trichlorobenzene		Not Found	0.000	ppbv
	Hexachlorobutadiene		Not Found	0.000	ppbv
	1,2,3-Trichlorobenzene		Not Found	0.000	ppbv
1	Propylene	140650-86-8	Quantified	0.04703	ppbv
3	1,1-Difluoroethane	616-84-2	Quantified	0.03333	ppbv
5	Chloromethane	74-87-3	Quantified	0.01037	ppbv
9	Ethanol	865-40-7	Quantified	0.2087	ppbv
10	Acrolein	55255-50-0	Quantified	0.000	ppbv
12	Carbon Disulfide	75-15-0	Quantified	0.02117	ppbv
13	Acetone	67-64-1	Quantified	0.1767	ppbv
14	2-Propanol	992-94-9	Quantified	0.01661	ppbv
16	Methylene Chloride	75-09-2	Quantified	0.02193	ppbv
17	Acrylonitrile	19892-19-4	Quantified	0.000	ppbv
23	2-Butanone (Methyl Ethyl Ketone)	55255-50-0	Quantified	0.02045	ppbv
23	Ethyl Acetate	55255-50-0	Quantified	0.02020	ppbv
26	Bromochloromethane-IS	74-97-5	Quantified	0.000	ppbv
26	Chloroform	74-97-5	Quantified	0.002576	ppbv
27	Tetrahydrofuran	150832-18-1	Quantified	0.08846	ppbv
28	Benzene	71-43-2	Quantified	0.02795	ppbv
29	1,2-Dichloroethane-d4	930-29-0	Quantified	5.405	ppbv
32	1,4-Difluorobenzene-IS	540-36-3	Quantified	0.000	ppbv



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Media Certification Report

Canister Number: F042106; 6L #25274 w/NE :1

Date: 4/21/2007 11:00:27

Peak #	Quantification	CAS	Type	Conc.	Units
35	Dibromomethane	74-95-3	Quantified	0.000	ppbv
37	Toluene-D8	2037-26-5	Quantified	4.800	ppbv
38	Toluene	103438-94-4	Quantified	0.002859	ppbv
40	trans-1,3-Dichloropropene	1066-42-8	Quantified	0.01044	ppbv
45	Chlorobenzene-d5-IS	3114-55-4	Quantified	0.000	ppbv
46	Bromofluorobenzene	460-00-4	Quantified	4.603	ppbv
48	sec-Butylbenzene	109220-26-0	Quantified	0.009966	ppbv
54	Naphthalene	296797-11-0	Quantified	0.002705	ppbv

DATA REVIEW CHECKLIST

Work Order #:

0705451

A R T M Q

- Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
- The final report has the correct reporting list, special units, and header info.
- Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
- 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: 0 out in CCV, LCS

M/Q: _____

A (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
<u>Dr 5/31/07</u>	R: <u>[Signature] 5/31/07</u>	<u>[Signature] 6/4/07</u>	
	T: <u>[Signature] 6/4/07</u>		

Not Applicable